

New York State Energy Research and
Development Authority (NYSERDA)

PURCHASE OF OFFSHORE WIND RENEWABLE ENERGY CERTIFICATES

Attentive Energy One

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SECTION 1

EXECUTIVE SUMMARY





After years of open and inclusive engagement with communities and organizations across this State, Attentive Energy is thrilled to offer a Submission that reflects a diverse coalition of support and a highly passionate and project-tested team ready to deliver on this opportunity.

EXECUTIVE SUMMARY

Introduction

Attentive Energy LLC (Attentive Energy, the Proposer) is pleased to present this Submission for Attentive Energy One (the Project) in response to NYSEERDA's Request for Proposals to supply ORECs, first issued on July 27, 2022 (ORECRFP22-1).

NYSEERDA's third offshore wind solicitation seeks to do more than bring clean electrons from the ocean to New York State. It represents a once in a generation opportunity to solidify the foundation upon which New York State's offshore wind industry will thrive for decades to come. After years of open and inclusive engagement with communities and organizations across this State, Attentive Energy is thrilled to offer a Submission that reflects a diverse coalition of support and a highly passionate and project-tested team ready to deliver on this opportunity.

Attentive Energy's 1,404 MW Project, connecting directly into the heart of New York City, will directly contribute to the goals of the Climate Act and deliver lasting benefits and economic opportunities for all New Yorkers. Attentive Energy's groundbreaking approach to fossil repurposing will be a historical environmental justice victory for New York City; the Project will deliver offshore wind energy directly into a new substation at Ravenswood, beginning the transformation of the city's largest fossil generating facility into a clean energy center. The Project will set a precedent for fossil repurposing by retiring one of Ravenswood Generating Station's 400 MW steam turbines (the "Unit") and replacing it with offshore wind.

Image left:
Community leaders, advocates,
elected officials, and union
workers gather at the Ravenswood
Generating Station in support of this
historic Proposal

To date, nearly every offshore wind farm in the U.S. has encountered significant challenges with cable landing and interconnection due to local opposition, permitting challenges, site control issues, and high system upgrade costs. Attentive Energy's Project addresses those issues with a highly matured and de-risked transmission solution. Together with the Project's commitment to fossil repurposing, this transmission solution allows the Project to reuse existing physical and electrical infrastructure, maximizing cost-effectiveness for New York State ratepayers and minimizing the interconnection challenges that have plagued U.S. offshore wind.

Attentive Energy's Project will foster a green economy with a clear plan for a Just Transition of the workforce at the retiring fossil generation facility. The plan is supported by several unions, including the Utility Workers Union of America (UWUA) Local 1-2, whose members have been operating Ravenswood for decades. The Project also offers New York an unprecedented commitment to creating economic opportunities for traditionally Disadvantaged Communities most affected by the legacy fossil fuel system. The Project's Lasting Legacy investment program includes a total of \$300 million in community, environmental, and fisheries investments. As part of this commitment, Attentive Energy will establish a \$192 million fund to make investments throughout New York State over the Project's contract period to advance an equitable and environmentally focused offshore wind industry and make the benefits of the Project truly generational. In addition, Attentive Energy will fund \$78 million in targeted community investments that prioritize Disadvantaged Communities, and an unprecedented \$30 million to protect and restore New York State's biodiversity.

The Project will make a major contribution to establishing New York State as the U.S. hub for the offshore wind industry by offering three groundbreaking Supply Chain Investment Plan (SCIP) proposals:

1. An LM Wind Power blade facility in the Capital Region,
2. A GE Renewables nacelle facility in the Capital Region, and
3. The Arthur Kill Terminal marshalling port on Staten Island.

Combined, these facilities will create over 900 incremental direct jobs, deliver long-term inclusive economic opportunities for New Yorkers, and lower the cost of future offshore wind projects by enabling offshore wind to be built locally.



Figure 1-1 Project Overview

The Project is designed to meet the unique requirements of NYSERDA and consists of two main components:

- A 1,404 MW nameplate Offshore Wind Generation Facility located in BOEM Lease OCS-A 0538 (the Lease Area), approximately 54 miles south of Jones Beach, the nearest onshore point in New York State. Due to its location far from shore, the Offshore Wind Generation Facility will be practically invisible to New York's onshore communities.
- A Meshed Ready HVDC Transmission Facility with a net delivery capacity of 1,310 MW, originating in the Lease Area and terminating at Ravenswood in Long Island City, Queens. Through the repurposing of the Ravenswood assets, the Project is significantly de-risked in terms of development timeline, community impact, and cost.

Attentive Energy combines the offshore wind experience, local expertise, and financial strength of the Sponsors, TotalEnergies and Rise, to realize the energy transition goals of New York State at scale. The Sponsors' long and active presence in New York, experience in managing critical energy infrastructure in New York City, and global offshore wind development pipeline of over 11 GW will lead to the successful execution of this Project.



The Project's Lasting Legacy investment program includes a total of \$300 million in community, environmental, and fisheries investments. As part of this commitment, Attentive Energy will establish a \$192 million fund to make investments throughout New York State over the Project's contract period to advance an equitable and environmentally focused offshore wind industry and make the benefits of the Project truly generational. In addition, Attentive Energy will fund \$78 million in targeted community investments that prioritize Disadvantaged Communities, and an unprecedented \$30 million to protect and restore New York State's biodiversity.





NYSERDA Should Select Attentive Energy One for Six Reasons

1



An historic environmental justice victory for New York

- Fossil Repurposing Proposal at Ravenwood
- Just Transition

2



Less risk, based on unmatched project maturity

- Submitted Article VII
- Submitted SAP

3



More benefits, with clean energy investments for all

- \$25.6 billion in benefits to New York State
- \$78 million + \$192 million in direct community investments
- NY blade, nacelle, and marshalling port SCIP options

4



A firm commitment to protect the environment and biodiversity

- No impact to environmentally sensitive or recreational areas onshore
- \$30 million investment to achieve no net loss of biodiversity

5



Ongoing inclusive engagement with stakeholders and communities

- Community support at Ravenswood
- 65+ Letters of Support

6



A dedicated partner

- Local experience
- Global reach
- Financial strength

A Historic Environmental Justice Victory

Commitment to Retire Fossil Generation

Attentive Energy One will cause the early retirement of an operating 400 MW Unit at Ravenswood Generating Station [REDACTED]

[REDACTED] This Fossil Repurposing Proposal is a mature and innovative approach that will create a blueprint for the repurposing of fossil fuel infrastructure in New York State. It is the product of years of engineering design development, site investigations, stakeholder engagement, and regulatory planning. And the Fossil Repurposing Proposal provides maximum flexibility: the Project is not contingent on any specific standalone fossil repurposing activities or approvals to achieve its COD. [REDACTED]

Rise's outreach to the Disadvantaged Communities surrounding Ravenswood led to a collaborative community-driven process to revitalize and repurpose the site. This process culminated in Rise's July 12, 2022 announcement launching Renewable Ravenswood: a vision for repurposing the 27-acre industrial site to serve as a central hub to integrate clean energy resources, including offshore wind. The announcement was met with extensive community support. Rise will take the first step towards implementing the Renewable Ravenswood vision by committing to retire and replace the Unit with the power from the Offshore Wind Generation Facility. Attentive Energy One's commitment to replace a 1960s vintage fossil fuel unit with offshore wind, while creating jobs and investing in a Disadvantaged Community, allows New York State to send a powerful message about its commitment to lasting environmental justice and fossil repurposing.

[REDACTED] Attentive Energy has commissioned a study showing that the Fossil Repurposing Proposal will not impact the reliability of the grid. Furthermore, if NYISO's analysis during the deactivation process does determine that there is a need to keep the Unit online for some additional period, the Project can proceed with its interconnection, commissioning, and operations unhindered.

Attentive Energy One's commitment to replace a 1960s vintage fossil fuel unit with offshore wind, while creating jobs and investing in a Disadvantaged Community, allows New York State to send a powerful message about its commitment to lasting environmental justice and fossil repurposing.

Emissions Reductions and Health Benefits

Offshore wind will meaningfully and expeditiously transform the power generation makeup at the scale required to address the climate change emergency: The reduction in emissions caused by Attentive Energy's Project, by itself, will contribute 2% of the reductions needed for New York State to meet its economy-wide 2030 greenhouse GHG reduction targets and will also contribute to New York City's emissions reduction targets.



Piloting a Virtual Ship at NYC Student Day - Youth Power and Offshore Wind

The Project will provide unmatched benefits to the surrounding community and across the State. In the first 25 years of operation of the Project, over 26 million metric tons of carbon emissions will be avoided, with 45% of the reduction located in NYC. Additionally, the Project is expected to reduce NOx and SOx emissions by 5,600 and 1,600 metric tons, respectively. The savings attributed to the social cost of these emissions reductions totals \$8 billion over the contract period.

The Project will provide Zone J with an average of 4,996 GWh of generation per year, meeting approximately 9% of Zone J energy usage needs that would otherwise mostly be served by fossil-based generation, significantly improving air quality. Since NOX, SO2, and PM2.5 are all linked to higher asthma attacks and other lung problems, the Project will directly benefit New Yorkers through fewer sick days, less time off work and fewer days of missed schooling. The Project, including the retirement of a fossil Unit at Ravenswood in conjunction with the interconnection of the Project, will yield a cumulative health benefit of \$2.7 billion. Almost 800 cases of asthma exacerbation will be avoided annually within New York City. This reduction in pollutants will most benefit historically Disadvantaged Communities in the direct vicinity of Ravenswood, providing measurable improvements to Attentive Energy's neighbors. After decades of community concerns related to 'Asthma Alley' in Western Queens, the Project responds to a frontline community demand for improved local environmental conditions through the replacement of existing fossil fuel generation with renewables.

A Low-Risk Offshore Wind and Transmission Solution

Attentive Energy offers NYSEDA a Project with unmatched maturity: It is underpinned by an advanced and viable transmission solution that reduces risk, cost, and community impact and has a head start on site investigations and permitting, brought about by careful planning years ahead of the New York Bight lease auction. The Project consists of the Offshore Wind Generation Facility and the Meshed Ready HVDC Transmission Facility, each detailed below.

Offshore Wind Generation Facility

Attentive Energy's 84,332-acre Lease Area was defined based on years of assessment and stakeholder engagement to minimize overlap with sensitive habitats and ocean stakeholders. Wind turbines in the Lease Area will capitalize on strong wind resources while being less impacted by external wake losses.

The Project will be approximately 40 mi farther offshore than other offshore wind projects currently in development for New York. The Visibility and Viewshed Impact Study conducted for the Project concludes that the Project would result in negligible visual impacts from shore due to the substantial distance from the Project.

Attentive Energy has already completed the first marine surveys in the Lease Area and in the federal waters of its offshore export cable route. Attentive Energy additionally performed reconnaissance-level geotechnical and geophysical surveys, advancing its understanding of the geology of the Lease Area's substrate and already significantly de-risking project execution. Using the data collected from these and future surveys, and incorporating feedback from stakeholders and ocean users, Attentive Energy will continue to refine the design of the wind turbine layout, the routing of inter-array cables, and the routing of the export cable to shore. The culmination of the 2022 survey efforts will help to keep people, the environment, and equipment safe throughout development and operations of the Project.

In January 2023, Attentive Energy submitted its SAP to BOEM, [REDACTED]

Meshed Ready Transmission Facility

The Project has rights to Queensboro Renewable Express 1 QRX1, the first of the two circuits being developed by Rise as part of its Queensboro Renewable Express. Queensboro is a planned offshore transmission project consisting of two HVDC transmission facilities, each having a capacity of 1,310 MW, originating in the New York Bight federal waters and terminating at Ravenswood. Over the past two years, Rise has completed over 255 mi of marine surveys and completed engineering to define and de-risk QRX1, complemented by additional marine surveys performed by Attentive Energy from the State water line to the Lease Area. On December 2, 2022, Rise submitted an Article VII application for Queensboro, laying the groundwork for securing critical siting approval within New York State waters and the Narrows.

QRX1 has been designed to be Meshed Ready from technical, regulatory, and commercial perspectives. [REDACTED]

[REDACTED] From a regulatory perspective, QRX1

filed with NYISO for merchant transmission interconnection service, under which the Project will have a separate large generator interconnection agreement at the offshore node. [REDACTED]

QRX1 will interconnect into Zone J, with all major onshore components, including the Converter Station and AC Substations, will be sited at Ravenswood, avoiding costs and schedule risks associated with construction on greenfield or utility-owned property. Additionally, by interconnecting the Project at Ravenswood and coordinating the interconnection with the fossil repurposing of one of Ravenswood's 400 MW steam turbines, the Proposer has designed an interconnection that will require minimal capacity deliverability upgrades, reducing both the risk and cost of extensive system upgrades, thereby benefitting ratepayers.

Attentive Energy proposes an Offer Capacity of 1,404 MW with a net delivered capacity at the POI of 1,310 MW. This allows the Project to stay within the limits of the current NYISO single contingency criteria. As such, the Project maximizes injection capability while not introducing regulatory approval risk towards meeting New York State's 70 x 30 Climate Act goal.

Benefits to the Grid

Rise has invested more than five years in developing plans to allow for the coordinated retirement of fossil generation and interconnection of renewable resources at Ravenswood, including extensive interactions with the NYISO and Con Edison. The Project's Fossil Repurposing Proposal enables the existing fossil to be retired and replaced with renewables without compromising reliability or overbuilding the grid to accommodate a transition period when both the fossil generation and offshore wind are interconnected. The Project's ability to interconnect directly into Zone J's 345kV and 138 kV systems means access to a strong bulk transmission system in the heart of the State's largest load zone without crossing through residential areas or sensitive habitats. The Project's Interconnection and Deliverability Plan is designed to minimize the interconnection costs, allowing the Project to deliver new offshore wind capacity and energy while avoiding additional cost to ratepayers.

The Project's ability to interconnect directly into Zone J's 345kV and 138 kV systems means access to a strong bulk transmission system in the heart of the State's largest load zone without crossing through residential areas or sensitive habitats.

Meaningful Clean Energy Investments for All

Attentive Energy is committed to investing in New York State: the Project will deliver up to \$25.6 billion in economic benefits for New York State over the 25-year contract tenor, depending on the Proposal selected. The Project will drive meaningful investments throughout New York State to support the buildout of a robust and inclusive clean energy economy, meeting State goals and establishing the State as an offshore wind hub in the U.S. Attentive Energy is making industry-leading investments in job creation and economic development in the key focus areas identified in NYSERDA's Strategic Plan, *Toward a Clean Energy Future: A Strategic Outlook 2022-2025*, and informed by recommendations and needs of leaders and communities that have been on the ground to date.

Just Transition of New York Fossil Workforce

A critical part of transforming Ravenswood into a clean energy center is building an inclusive clean energy workforce to ensure that New York realizes the Just Transition envisioned in the Climate Act. To that end, Attentive Energy is building the Ravenswood O&M Hub to service the Project and provide union jobs for the UAW Local 1-2, which has been operating Ravenswood Generating Station for decades. The Ravenswood O&M Hub is being built to service 3,000 MW of offshore wind operations, meaning that the hub will have the opportunity to grow beyond the Project and become a center of operations for multiple offshore wind farms, anchoring a major clean energy center in the heart of New York City. The Ravenswood O&M Hub will be housed in purpose-built buildings that include control rooms, an emergency operations center, offices, meeting

The Ravenswood O&M Hub will follow through on the Climate Act's Just Transition plan by ensuring that the offshore wind that will power New York is also creating union jobs that are based in New York.

rooms, warehouses, and a workshop. Onsite jobs will include operations roles for generation, transmission, and marine facilities, as well as project administration and O&M management. The Ravenswood O&M Hub will follow through on the Climate Act's Just Transition plan by ensuring that the offshore wind that will power New York is also creating union jobs that are based in New York.

Incremental Economic Benefits

The Project is expected to result in up to \$25.6 billion in incremental economic benefits within New York State. The Project is also expected to result in up to 1,716 new jobs, associated with investments across energy transmission and associated eligible benefits from resources located across upstate New York to be procured by the Proposer and delivered to NYISO Zone J.

Ratepayer Savings and Public Health Benefits

Over the Project's 25-year contract period, it will bring over \$10 billion savings to ratepayers across New York State -- \$5.6 billion in wholesale energy market savings, over 50% of which will benefit NYC ratepayers, and \$4.5 billion in wholesale capacity market savings. The Project will bring another \$1.9 billion in health benefits associated with lower fossil fuel emissions to New Yorkers during the contract period.¹ More importantly, 70% of these avoided health costs – over \$1.3 billion – will benefit New York City. The impact on the bills of low-income households will be material. Throughout the 25-year contract period, low-income households across the state will save a total of \$500 million on their electricity bills.²

Creating and Sustaining Good-Quality Jobs

Attentive Energy is committed to bringing long-lasting, high-quality jobs to New York State. The Project will create an average of 691 direct full-time jobs per year during construction. The Project will also support the creation of an average of 113 direct, full-time jobs in New York during the first 25 years of operation.

Attentive Energy is implementing investments and workforce training programs to create opportunities for good-paying, long-term employment, with a specific focus on Disadvantaged Communities. Of the \$78 million in targeted community investments as part of Attentive Energy's Lasting Legacy and Community Commitment investment programs, 96% will prioritize Disadvantaged Communities and \$62.5 million is devoted to workforce training initiatives,



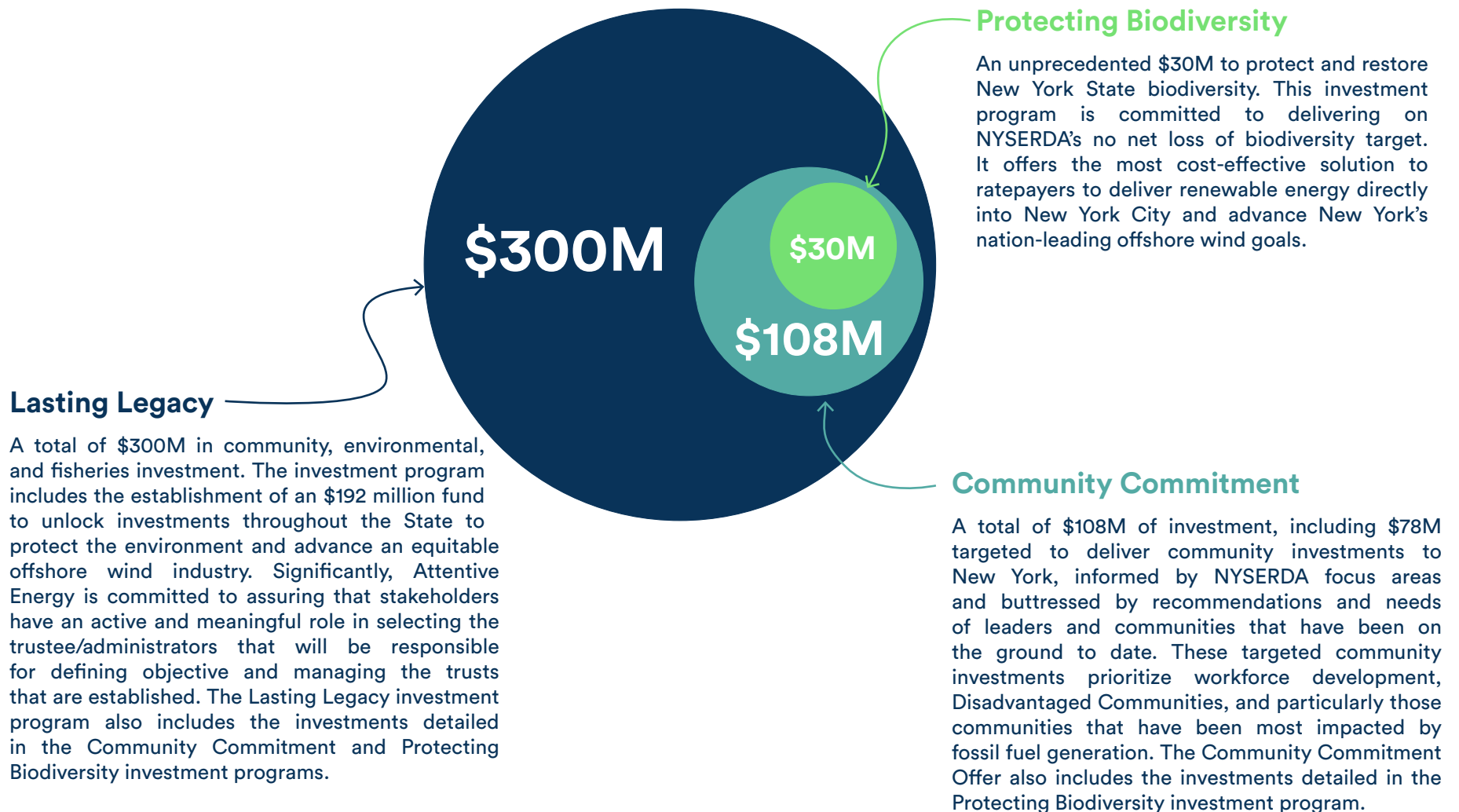
Students Preparing for Boat Tour at NYC Student Day – Youth Power and Offshore Wind. Attentive Energy sponsored this day, in collaboration with Horizons National and SUNY Maritime, to engage middle school students from under-served communities across New York City with the opportunity to explore offshore wind and maritime industry careers.



Clean energy investments from all – feedback from the community

The Project will bring over \$25.6 billion dollars in Category 1 and Category 3 economic benefits to New York State, with 52% of these benefits accruing to Disadvantaged communities using the New York State Climate Justice Working Group Draft Disadvantaged Communities Criteria (CJWG)

and 16% accruing to Disadvantaged Communities using the NYSERDA interim criteria for Disadvantaged Communities.. Attentive Energy is offering NYSERDA three distinct alternative Direct Community Investment Programs:



SCIPs

Attentive Energy is proposing three SCIP facilities to help cement New York State's position as a hub for U.S. offshore wind :

- **Blade Factory:** LM Wind Power will design, build, and operate an offshore wind blade factory at the Port of Coeymans.
- **Nacelle Factory:** GE Renewables will design, build, and operate an offshore wind nacelle factory at the Port of Coeymans.
- **Arthur Kill Terminal:** Strategically located outside of any height restrictions on Staten Island, Arthur Kill Terminal will be a heavy-duty and purpose-built offshore wind marshallingport specifically designed to stage, assemble, and deploy offshore wind turbines.

[REDACTED]

Attentive Energy has long recognized the strategic benefits of establishing AKT as a world-class offshore wind marshalling port on the western shore of Staten Island – an ideal location to be a marshalling hub for this Project and future offshore wind projects. AKT is a proposed purpose-built offshore wind turbine marshalling port strategically located outside of all bridge restrictions to offer an efficient and cost-effective logistics solution that minimizes risks offshore by maximizing the activities that can be performed onshore. Where the Northeast U.S. has limited availability of suitable, high-capacity port facilities for the staging, assembly, and deployment of offshore wind turbines, AKT will be a centerpiece of New York’s offshore wind supply chain by bringing needed capacity directly in the nexus of offshore wind deployments to service the industry for decades to come.

[REDACTED]

AKT is likely the most advanced offshore wind infrastructure project seeking matching NYS funds through this SCIP process. Attentive Energy is committed to the development, construction, and operation of AKT to support offshore wind development off New York.

[REDACTED]

Attentive Energy’s plans for the development and use of AKT are structured to provide New York State a low-cost path to increase

marshalling capacity supporting construction of offshore wind projects, including projects outside of the state and the Northeast U.S.

Attentive Energy has selected GE Vernova and its subsidiary LM Wind Power as a SCIP partner to bring wind turbine blade and nacelle manufacturing facilities to the State of New York. A major turbine manufacturing facility is the marquee offshore wind investment that delivers jobs and economic development within a region; currently, there is one blade manufacturing facility envisioned in the U.S., in Virginia. As the current supply chain is limited and demand for offshore wind deployment is increasing rapidly, OEMs are making decisions on where to expand capacity by locating turbine manufacturing facilities in consideration of the global market. There will not be a facility in every state, or in every regional market: New York State must take decisive action in this solicitation to secure a blade facility now to deliver hundreds of New York jobs, or potentially lose that opportunity to another state.

Progressing an Equitable Local Supply Chain

Attentive Energy has been instrumental in supporting organizations that promote equality of economic opportunities for certified vendors and eliminate barriers to their participation in the U.S. offshore wind industry. Attentive Energy is a founding sponsor of offshore wind Supply Chain, a Long Island based organization that assists businesses and local communities in understanding how they can engage in the future of offshore wind development.

[REDACTED]

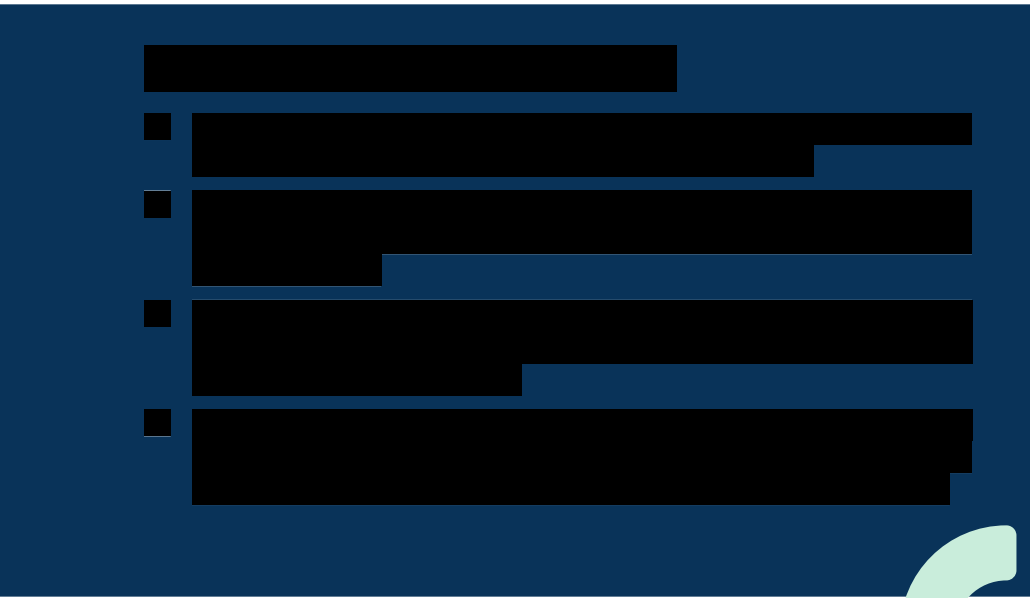
Further detail on programs and expected outcomes are provided in Submission Economic Benefits Plan. ORECRFP22-1 rightly centers the need for equality in the industry, and Attentive Energy is committed to activating a diverse pool of talent to support responsible offshore wind development as New York accelerates clean energy development.

A Firm Commitment to Protect the Environment and Biodiversity

Attentive Energy is aiming to achieve no net loss of biodiversity throughout the entire lifecycle of the Project from site assessment surveys, construction, operations, to decommissioning. Attentive Energy is committing \$30 million to meet this goal, more than double the amount required by NYSERDA. The Sponsors have also partnered with almost 20 New York and regional organizations to develop innovative approaches to wildlife and fisheries monitoring and mitigation, while also supporting proven, ongoing monitoring efforts. The Sponsors are committed to a science-based approach to designing and advancing the Project, based on extensive data collection and objective scientific analysis. These investments in the environment and protecting biodiversity will go beyond just benefitting the Project: it and will provide valuable information and conservation benefit to the entire New York Bight for this and future offshore wind developments.

Advancing Permitting Early and Effectively

As part of the significant progress made in siting and permitting the Project, the Sponsors have been actively engaged with public leaders and regulatory agencies, including State and federal agencies, about the



Project and required permits and approvals. Details describing how State agencies are involved is outlined below, and further tracking is provided under the Submission's Stakeholder Engagement Plan. [Redacted]

Protecting and Restoring Biodiversity

Through its \$30 million investment to environmental and fisheries mitigation and monitoring, Attentive Energy aims to make a significant impact on key biodiversity issues in the New York Bight, such as North Atlantic right whale conservation, endangered avian and bat species monitoring, innovative and non-extractive pelagic species monitoring, and promoting coastal resiliency.

Additional details of the Project's proposed environmental and fisheries mitigation programs are provided in Sections 14 and 15.

Minimum Impact to Public and Private Property

The Project's offshore cable will land at Ravenswood, which already zoned and used for heavy utility infrastructure. No part of the terrestrial cable route or onshore equipment requires greenfield development or zoning changes. To connect to New York State's electrical grid, the Project will use pre-existing underground infrastructure such as tunnels and other pathways to the substations. Finally, the Project's landing will not impact any public or private property, except that already owned by the Sponsors and Con Edison.

Ongoing and Inclusive Engagement with Stakeholders and Communities

Attentive Energy is committed to supporting Disadvantaged Communities, transparently engaging stakeholders, and developing meaningful relationships, including through its Lasting Legacy and Community Commitment investment programs, designed to deliver 96% of the funding towards Disadvantaged Communities. Rise has worked hard to engage the

local community in its plans for the future of Ravenswood, and Attentive Energy will build upon these deep relationships to maintain robust support for the Project – near Ravenswood and more broadly throughout the State – allowing for timely dissemination of Project information and trust that will allow parties to collaboratively handle challenges that may arise.

Local Roots and Long-Term Community Engagement

The Project’s proposed interconnection at Ravenswood positions it as the premier environmental justice project for New York, setting a new standard for the retirement of in-city fossil fuel generation and for collaborative partnership with marginalized communities. As a result of its transformative vision to replace existing fossil fuel generation with clean energy, Rise rallied support from a diverse and broad group of stakeholders and community members in Western Queens and beyond.

With its headquarters within one mile of the Project’s point of interconnection, Rise regularly engages with grassroots leaders, local community members, environmental justice organizations, and organized labor to marshal project support and ensure their input is considered throughout Project development. Rise invests the necessary time to build relationships with community organizations and public officials, building excitement and consensus around its Renewable Ravenswood plans. Tours of the Ravenswood site allow community members to better understand the opportunities of the green energy transition.

Since 2020, Rise has distributed more than \$1.7 million in charitable giving funds to the local community through a broad range of initiatives that focus on themes of economic empowerment (such as small business mentoring at Queens Public Library and college savings account contributions for children in public housing) and sustainability (such as contributing to a stormwater-resilient playground and energy efficiency retrofit training programs).

During the height of the COVID-19 pandemic, which disproportionately impacted local NYCHA housing facilities near Ravenswood, Rise expanded its existing efforts and provided PPE to the local community, as well as sponsored food drives to help thousands of food insecure families and held back-to-school giveaway events with backpacks and new school supplies.

Commitment to Disadvantaged Communities

Attentive Energy prioritizes support for Disadvantaged Communities to reduce burdens and deliver meaningful economic and social impact, in direct support of New York’s Climate Act goals. Attentive Energy is committed to addressing environmental justice and providing services and benefits to Disadvantaged Communities. Of the total direct and secondary jobs created during development, construction, and operations, approximately 54% of these will accrue to Disadvantaged Communities if the CJWG’s DAC draft criteria is adopted. Should the NYSERDA interim Disadvantaged Community criteria be adopted instead, 25% of the total jobs will accrue to Disadvantaged Communities. Approximately 50% of the economic benefits associated with health - a cumulative \$2.7 billion - are expected to accrue to Disadvantaged Communities under the CJWG criteria and 11% under the interim NYSERDA criteria.

In 2021, when Hurricane Ida caused historic flooding in New York area, Rise worked with local public officials and businesses to aid families and businesses and help the community recover stronger than before.



During the height of the COVID-19 pandemic, which disproportionately impacted local NYCHA housing facilities near Ravenswood, Rise expanded its existing efforts and provided PPE to the local community, as well as sponsored food drives to help thousands of food insecure families and held back-to-school giveaway events with backpacks and new school supplies.

Ravenswood, the site of the Project's onshore footprint, is located next to a Disadvantaged Community in Western Queens. The Project will provide direct and indirect environmental and economic benefits to this community to support workforce development, environmental science, and community-led quality of life improvements as part of the Project's long-term commitment to being a positive catalyst for the community.

Attentive Energy has joined the New York Community in the fight to alleviate historical injustices.



Attentive Energy team at Demo Day with Horizons National and SUNY Maritime



Transparent Stakeholder Engagement

In connection with this Project, Attentive Energy has met with over 130 unique stakeholders and had conducted more than 250 stakeholder meetings before obtaining a federal lease in February 2022. This proactive outreach to a diverse set of communities and stakeholders since 2018 and throughout the COVID-19 pandemic underscores the organization's belief that early engagement and strong, trusted relationships are instrumental to advancing this industry and achieving the ambitious State and federal procurement goals that will create lasting economic and climate benefits for New York State. This emphasis on early engagement has allowed



Rise joins Queensbridge Residents, Jacob A. Riis Neighborhood Settlement, and the Office of Congresswoman Carolyn Maloney for a Community Event

Attentive Energy to develop:

- Robust and adaptive communications plans and outreach platforms that will guide Project activities;
- A good working relationship with fishermen and the maritime community;
- A reputation in the offshore wind industry as a dedicated advocate for DEIJ issues and for addressing environmental justice issues early within project development; and
- Meaningful input from community groups and industry organizations to inform the investment programs offered in this Submission.

Attentive Energy's engagement has been conducted at all levels including federal, state, and local decision makers, governing agencies, labor organizations, suppliers, maritime and fishing interests, equity and environmental justice leaders, environmental groups, and grassroots community organizers through a variety of platforms, with the recognition that stakeholders are unique, and each require a flexible and accessible approach.

Attentive Energy has been engaged with the New York Bight fishing community since 2018, and in 2019, Attentive Energy became the first non-lease-holding developer to hire its first Fisheries Liaison, whose focus has been on establishing relationships with impacted fishing communities and facilitating communication between the Project and these stakeholders from the start.

A Partner with the Experience to Execute

Attentive Energy is based in New York City, and major day-to-day decisions affecting the Project are made locally. The Proposer is a limited liability company owned by affiliates of two leading energy companies.

TotalEnergies is a global multi-energy company that produces and markets fuels, natural gas, and electricity. As part of its ambition to reach net zero by 2050, TotalEnergies is building a portfolio of activities in renewables and electricity, including a portfolio of offshore wind projects with a total capacity of more than 11 GW and a portfolio of nearly 25 GW of renewables in the U.S. TotalEnergies aims to become one of the world's top five producers of renewable energy by 2030 – and as of 2022 has become a top five renewable energy producer in the U.S.

Rise is a specialist in the energy transition business. Rise owns and operates the Ravenswood Generating Station, the largest power plant in New York City, which been a vital part of New York's energy system for nearly 60 years. Ravenswood proudly employs approximately 90 union members from the New York metro region and provides more than 20 percent of New York City's generation capacity.

The combined team of Sponsors brings: extensive global offshore operational knowledge; unmatched local expertise in NYISO markets; and financial strength from the backing of global multi-energy company and energy infrastructure investment funds.



Global Offshore Experience

Attentive Energy, through TotalEnergies, has deep offshore operating expertise with proven marine energy technologies that will ensure the successful operation of the Project for its 25-year contract tenor. Furthermore, TotalEnergies' excels at construction of large-scale energy infrastructure and management of global supply chains, which translates to TotalEnergies' fixed-bottom and floating offshore wind projects.

TotalEnergies is developing over 11 GW of offshore wind projects in Europe, Asia, and North America. TotalEnergies' project portfolio notably includes the 1.5 GW Seagreen project – Scotland's largest offshore wind project and the deepest fixed-bottom offshore wind project globally – in the North Sea. Best practices in the development, financing, construction, and operation of its offshore projects will be deployed to proactively identify, manage, and mitigate Project risks that might otherwise impede timely execution.

Attentive Energy benefits from centralized technical and procurement support, allowing the Project to leverage an immense buying power to de-risk supply chain challenges globally and to benefit from technical and engineering expertise hardened from experience gained from decades in the complex offshore energy sector.

U.S. Renewable Energy Experience

The Attentive Energy team includes long-standing veterans of the U.S. offshore wind industry, including executives who have shaped the market over the last decade. Attentive Energy team members played critical roles in the project development and construction of Block Island Wind Farm, the first offshore wind project in the U.S. Other team members have overseen construction of the first purpose-built offshore wind marshalling port in the U.S.; developed offshore wind supply chain programs and state-led industry events; permitted SAPs and COPs for other offshore wind projects; and performed major package procurement. Together, personnel from the Attentive Energy team have served the offshore wind industry within every U.S. East Coast state with a competitive offshore wind process.

New York Generation and Operations Experience

Attentive Energy, through Rise, has experience managing critical NYC energy infrastructure and has the know-how to keep electricity available for NYC consumers. For over 20 years, Rise has been a daily participant in NYISO's energy markets and understands how to manage generation assets through a changing grid. In addition, Rise has directly relevant experience

in the redevelopment of fossil fired peaking facilities; in recent years, Rise has removed from service or retired nearly 500 MW of fossil-fired peakers at Ravenswood.

Unmatched Financial Strength and Financing Experience

Attentive Energy is backed by Sponsors with the financial capability and resources to undertake and fund the Project through to completion.

TotalEnergies has deep experience financing large-scale energy projects. In the past five years, TotalEnergies has invested more than \$10 billion in renewable power generation, including more than \$3 billion in 2021 alone, and it intends to finance investments of more than \$60 billion in renewable power generation by 2030. TotalEnergies' integrated multi-energy strategy, combined with its solid financial base, are strengths and sources of resilience that have allowed TotalEnergies to be a major provider of the energy throughout decades of changing global conditions.

Rise's owner LS Power has developed, constructed, managed, and acquired more than 45,000 MW of competitive power generation and over 660 miles of transmission infrastructure, for which it has raised over \$48 billion in debt and equity financing to invest in North American infrastructure. Rise operates as a standalone company, earning capacity and energy revenues from its 2,000 MW Ravenswood plant. Rise has invested over \$200 million in onsite energy infrastructure at Ravenswood since 2017.

Summary of Proposals Offered

Attentive Energy offers these Proposals to provide NYSERDA sufficient flexibility in determining which Project configuration would best help to meet its offshore wind goals in this ORECRFP22-1, and as part of an anticipated portfolio of awards within the State.

Each Proposal in this Submission includes:

- Offer Capacity: 1,404 MW
- Delivery Point: Rainey 345kV and Vernon 138 kV Substations

- Contract Tenor: 25 Years
- Fossil Repurposing Proposal Included

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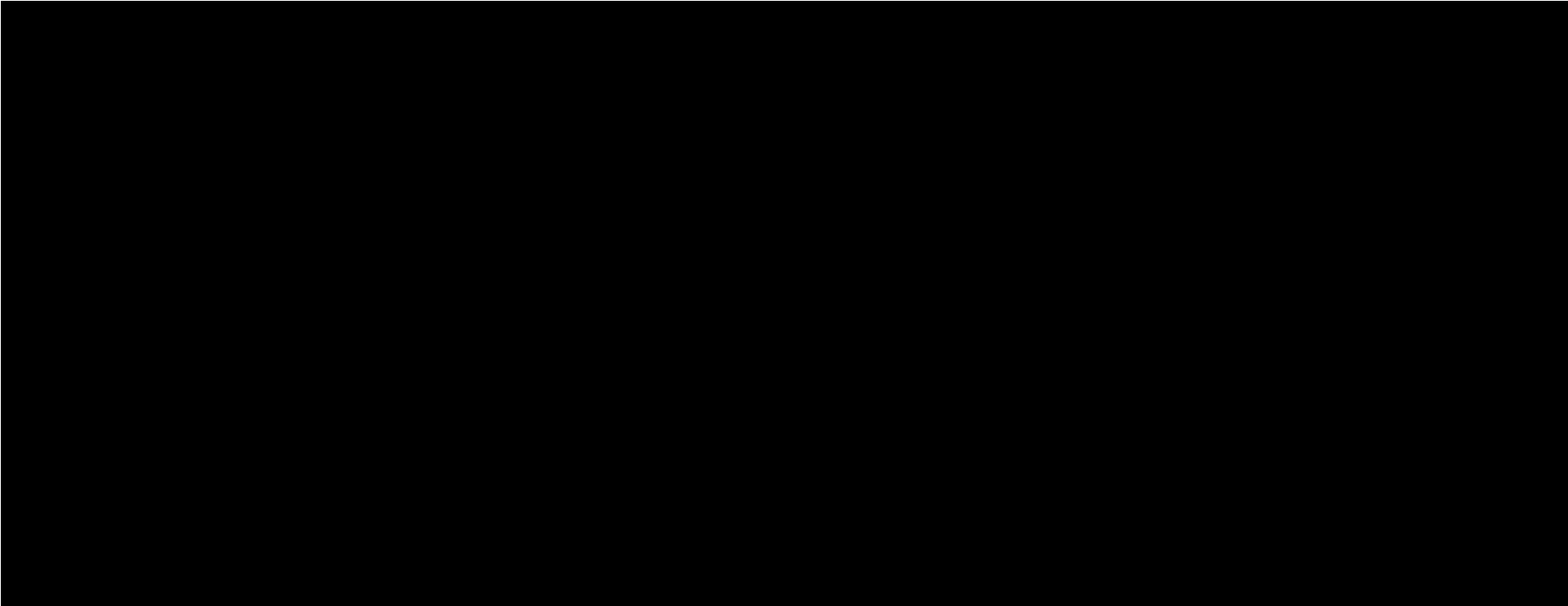
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Meeting the Evaluation Criteria

Attentive Energy stands ready to deliver a viable and transformative Project to New York. Each Proposal within this Submission excels within the evaluation criteria in ORECRFP22-1.

Table 1-2 Meeting Evaluation Criteria

Category	How Attentive Energy One Excels	Section
Project Viability		
Advanced Permitting Plan	<ul style="list-style-type: none"> In December 2, 2022, Rise submitted an Article VII application to NYSDPS for approval to construct the sections of the Project’s export transmission facility that are in State waters. In January 2023, Attentive Energy submitted its SAP, meeting a key Project milestone well within the one year allotted by BOEM, and ahead of other new leaseholders in the New York Bight. 	Section 10
Financing Plan	<ul style="list-style-type: none"> The Sponsors have extensive experience in project financing and have a proven track record of successfully financing various generation and transmission facilities. The Sponsors are actively developing renewable generation assets globally, with direct contributions to the financing of large-scale offshore wind projects of comparable size to the Project. The Sponsors have strong relationships with a broad group of financial institutions and lenders and will leverage these resources to assist in structuring an efficient and optimal funding approach, which will consider realities of the current market and deliver sizeable savings to ratepayers. 	Section 7
Qualifications	<ul style="list-style-type: none"> The combined team of Sponsors brings: extensive global offshore operational knowledge, unmatched local expertise from a Sponsor that is active daily in NYISO markets, and financial strength from a global multi-energy company. The team is highly experienced in energy infrastructure operations, maintenance, development, ownership, marketing and financing, including renewable generation projects, battery storage projects, and large-scale transmission both onshore and offshore. The team is proudly based in New York State, and the Project benefits from the expertise of highly qualified lawyers, financial advisors, and engineering and environmental consultants who have supported the development of other awarded U.S. offshore wind projects. 	Section 3
Proposed Technology	<ul style="list-style-type: none"> Attentive Energy has used established, publicly available data sources and results from several Project-specific surveys to assess the physical characteristics of the Lease Area, develop a strong understanding of site conditions, and develop a robust basis of design for the Project. Climate impact assumptions, including both direct and indirect impacts of climate change, have been used to inform the selected technologies, designs, construction, and operational features of offshore and onshore Project assets. By leveraging global resources and best practices, Attentive Energy presents a resilient Project design that New York State can rely on. 	Section 11

Category	How Attentive Energy One Excels	Section
Development and Logistics Plan	<ul style="list-style-type: none"> • Attentive Energy will manage the construction process through a dedicated team focused on meeting quality and schedule goals throughout the entire Project installation campaign. The logistics plan has been developed to ensure timely completion of Project construction activities and adherence to industry best practices, and key Project milestones have already been met. • Consideration has been given to the specific characteristics of the Lease Area, proximity to suitable marine terminals, regional historical weather data, and the availability of necessary equipment and specialized vessels. • Attentive Energy’s development and logistics plan is centered around use of the AKT, a proposed purpose-built offshore wind marshalling port on Staten Island, which will be strategically located outside of all bridge restrictions to offer an efficient and cost-effective logistics solution that minimizes risks offshore by maximizing the activities that can be performed onshore. AKT is both offered as a SCIP in various Proposals, and is otherwise anticipated to be constructed and utilized for marshalling. 	Section 13
Interconnection and Deliverability	<ul style="list-style-type: none"> • The Project has rights to QRX1, the first of the two circuits developed as part of Queensboro. The transmission facilities will originate in the Lease Area and terminate at Ravenswood. The landing and onshore route of the Project is entirely contained within Ravenswood; unlike most other offshore transmission solutions, the route will not impact a single beach or park. <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p>	Section 8
Proposed Commercial Operation Date	<p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <ul style="list-style-type: none"> • The Project schedule is realistic and achievable, building on years of experience with offshore wind projects in the U.S. and overseas and ongoing market input from suppliers, OEMs, community allies, permitting agencies, and more. 	Section 12
Energy Resource Assessment	<p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <ul style="list-style-type: none"> • Collectively, the data evaluated to support this Submission provides a sound basis for estimating the wind resource potential and assessing the expected annual energy production of the Project. 	Section 5

Category	How Attentive Energy One Excels	Section
Responsible Development and Stakeholder Engagement Plans	<p>Fisheries and Environmental Mitigation: The Project aims to accomplish no net negative impact on biodiversity and no net loss of revenue to commercial fishermen while implementing an innovative research program designed to develop baseline data and mitigate impacts from Project activities. Attentive Energy looks to TotalEnergies’ past performance of environmental stewardship and effective management of project environmental effects guided by the mitigation hierarchy.</p>	<p>Section 14 and 15</p>
	<p>Stakeholder Engagement: Attentive Energy takes pride in its community-first approach to developing the Project, which includes cultivating productive relationships with all stakeholders who will benefit from offshore wind. This includes frontline communities in Queens, environmental organizations, fisheries groups and maritime users, State leadership and regulatory agencies, research institutions, industry working groups, supply chain partners, developer colleagues, and more. The team has conducted extensive outreach to date and continues to build meaningful relationships through active on-the-ground engagement – the traditional efforts that have given Attentive Energy its reputation for being a purposeful contributor.</p>	<p>Section 16</p>
	<p>Disadvantaged Community Impacts: Attentive Energy prioritizes support for Disadvantaged Communities to reduce burdens and deliver meaningful economic and social impact, in direct support of New York’s Climate Act goals. The Project will provide direct and indirect environmental and economic benefits to this community to support workforce development, environmental science, and community-led quality of life improvements as part of the Project’s long-term commitment to being a positive catalyst for impacts to the community.</p>	<p>Section 18</p>
	<p>Visibility and Viewshed Impacts: The Offshore Wind Generation Facility is approximately 54 mi south of Jones Beach, the nearest onshore point in New York State. None of the Project is anticipated to be visible from non-elevated viewpoints in New York. The Visibility and Viewshed Impact Study concludes that the Project would result in negligible visual impacts to any potential viewers on land, primarily due to the substantial distance separating viewers on land from the Project.</p>	<p>Section 17</p>
Plan to Repurpose Downstate Fossil Fuel Generation Infrastructure	<ul style="list-style-type: none"> Retirement of Unit 10 or 20 – Rise will retire one of Ravenswood’s 400 MW fossil generators, in a historic victory for frontline energy communities. This commitment has no impact on the Project’s ability to meet its COD, as the Project’s interconnection is not dependent upon unit retirement. [REDACTED] New HVDC Converter Location – The Project will repurpose the site of the already-decommissioned small peaker units at Ravenswood. This has no impact on the retiring Unit and Rise fully controls the site. [REDACTED] Just Transition of Affected Union Workers – Attentive Energy and the Sponsors are committing to the Just Transition and upskilling of the UWUA Local 1-2 Union workers at Ravenswood through training programs and job opportunities associated with the Project. The Ravenswood O&M Hub – Attentive Energy will establish the Ravenswood O&M Hub to support long-term operations of the Project, which is designed to support other offshore wind projects. Please see Section 6 for the complete information. 	<p>Section 9</p>
Energy Storage Offering	<p>N/A</p>	<p>N/A</p>

Category	How Attentive Energy One Excels	Section
Project Economic Benefits		
New York State Economic Benefits	<ul style="list-style-type: none"> Attentive Energy’s Required Standalone bid will deliver a total of over \$25.6 billion in economic benefits and 1,716 jobs to New York State during its development, construction, and OREC contract operations period. 	Section 19
Project Benefits to Disadvantaged Communities	<ul style="list-style-type: none"> Through its Lasting Legacy and Community Commitment investment programs, the Project offers a targeted approach to delivering community investments to New York, informed by NYSERDA focus areas and buttressed by recommendations and needs of leaders and communities that have been on the ground to date. This plan includes \$78M in targeted community investments, of which 96% will prioritize Disadvantaged Communities. 	Section 18 and 19
Prioritizing MWBE and SDVOB Partnerships	<ul style="list-style-type: none"> Attentive Energy will deploy a comprehensive approach to MWBEs and SDVOBs that is specifically designed to address and overcome many of the barriers to entry in the early-stage supply market with the aim of maximizing participation of MWBE and SDVOB suppliers and prospective suppliers throughout New York State in the supply chain for the Project and more broadly for the offshore wind industry. 	Section 19
Creating New York Jobs and Attentive Energy’s Workforce Plan	<ul style="list-style-type: none"> Attentive Energy has designed a comprehensive Jobs and Workforce Plan, underwritten with a planned investment of \$62.5 million, to assemble a network of workforce development, higher education, organized labor, and community partners to recruit, train, and credential New Yorkers seeking roles in the offshore wind industry. Attentive Energy’s plan is supported by several unions, including the Utility Workers Union of America (UWUA) Local 1-2, whose members have been operating Ravenswood for decades. 	Section 19 and Jobs & Workforce Plan
Proposed Supply Chain Investment Plan(s)	<ul style="list-style-type: none"> In this Submission, Attentive Energy is proposing a suite of SCIP opportunities to New York State, with each SCIP facility building upon the mission to create sustainable institutional and labor capabilities, thereby creating long-term inclusive economic opportunities for New Yorkers and helping to lower the cost of future offshore wind projects. The three SCIP facilities contemplated in this Submission are introduced below. <ul style="list-style-type: none"> Arthur Kill Terminal (AKT): Strategically located outside of any height restrictions on Staten Island, Arthur Kill Terminal is a heavy-duty offshore wind facility specifically designed to stage, assemble, and deploy offshore wind turbines. Blade Factory: LM Wind Power will design, build, and operate an offshore wind blade factory at the Port of Coeymans. Nacelle Factory by GE: GE Renewables will design, build, and operate an offshore wind nacelle factory at the Port of Coeymans. 	Section 19

Category	How Attentive Energy One Excels	Section
Offer Price		
Pricing	[REDACTED]	Section 7 and Offer Data Form

Meeting the Eligibility Requirements

Attentive Energy is proud to present a qualified Submission supporting New York’s nation-leading commitment to accelerate a clean energy economy. Every Proposal within this Submission meets or exceeds the eligibility requirements in ORECRFP22-1.

Table 1-3 Meeting Eligibility Requirements


Category	Eligibility Requirement	How Attentive Energy One Complies	Section
ORECs Offered	Located in the ocean waters of the U.S.	Each Proposal offers ORECs produced from one Offshore Wind Generation Facility within Lease Area OCS-A 0538, located in the ocean waters of the U.S.	Section 4
ORECs Offered	Commercial Operation Date on or after January 1, 2015	[REDACTED]	Section 12
ORECs Offered	Minimum Offer Capacity for each Offshore Wind Generation Facility in the Proposal is the lesser of 1,000 MW or the maximum capacity available from the Proposer’s lease area	The Offer Capacity for the Project is 1,404 MW, representing a portion of the available capacity within Lease Area OCS-A 0538.	Section 4
ORECs Offered	Not contractually committed to any other entity and not conditional on other Proposals or solicitation outcomes, with the exception of conditions related to Supply Chain Investment Plan volumes as specifically allowed herein	The OREC production from the Offshore Wind Generation Facility offered by Attentive Energy to NYSERDA through ORECRFP22-1 is not contractually committed to any other entity over the proposed Contract Delivery Term. Attentive Energy does not condition the acceptance of any Proposal on the withdrawal or acceptance of any other proposal.	Section 1
Supply Chain Investment Plans	Include at least one Supply Chain Investment Plan that utilizes up to \$300 million in New York State Funding if localization of nacelles or blades is included, or up to \$150 million in New York State Funding if localization of nacelles or blades is not included (requirement does not apply to Proposals that include only Upgrade Capacity)	This Submission includes three SCIP facilities – LM Wind Power blade factory, GE Renewables nacelle factory, and AKT marshalling port – which Attentive Energy has strategically combined to offer [REDACTED] SCIPs to create sustainable institutional and labor capabilities, thereby creating long-term inclusive economic opportunities for New Yorkers and helping to lower the cost of future offshore wind projects.	Section 19

Category	Eligibility Requirement	How Attentive Energy One Complies	Section
Required and Alternate Proposals	HVDC and Meshed Ready for Required Base Proposal and Required Standalone Proposal (requirement does not apply to Upgrade Capacity)	All Proposals in this Submission, including the Required Base Proposal and the Required Standalone Proposal, include HVDC and Meshed Ready facilities.	Section 8
Site Control	Demonstrate site control of Lease Area and Injection Point	Attentive Energy is the leaseholder of Lease Area OCS-A 0538 and holds a fully-executed lease for the BOEM commercial wind energy lease area. The Meshed Ready HVDC transmission facility will terminate at Ravenswood, which is owned by an affiliate of the Sponsor Rise. The Project has rights to the Injection Point at Rainey and Vernon Substations where 1,310 MW will be injected into NYCA.	Section 4
Interconnection and Delivery	Deliverable into the NYCA, with a Zone J or K Injection Point for Required Base Proposal and Required Standalone Proposal	Energy generated by the Offshore Wind Generation Facility will be delivered into NYCA, with interconnection into Zone J via Rainey and Vernon Substations.	Section 8
Repurposing Downstate Fossil Fuel Generation Infrastructure (optional)	Fossil Repurposing Proposals must identify the facility to be repurposed, demonstrate usage rights and submit an implementation plan and a contingency plan	[REDACTED]	Section 9
Energy Storage (optional)	Electrical Energy Storage for electrical discharge must be located in Zone J or K	Proposals in this Submission do not include optional energy storage.	Section 20
Other	Submit a complete Proposal Narrative that addresses all required content	This document, the Proposal narrative, addresses all prompts in ORECRFP22-1. Each required section and corresponding information is provided in this Proposal Narrative document.	Sections 1-21
Other	Be free from, or commit to eliminating or preventing, conflicts of interest, in each case as determined by NYSERDA in its sole discretion	Specific prompts from ORECRFP22-1 and responses are provided below.	Section 1

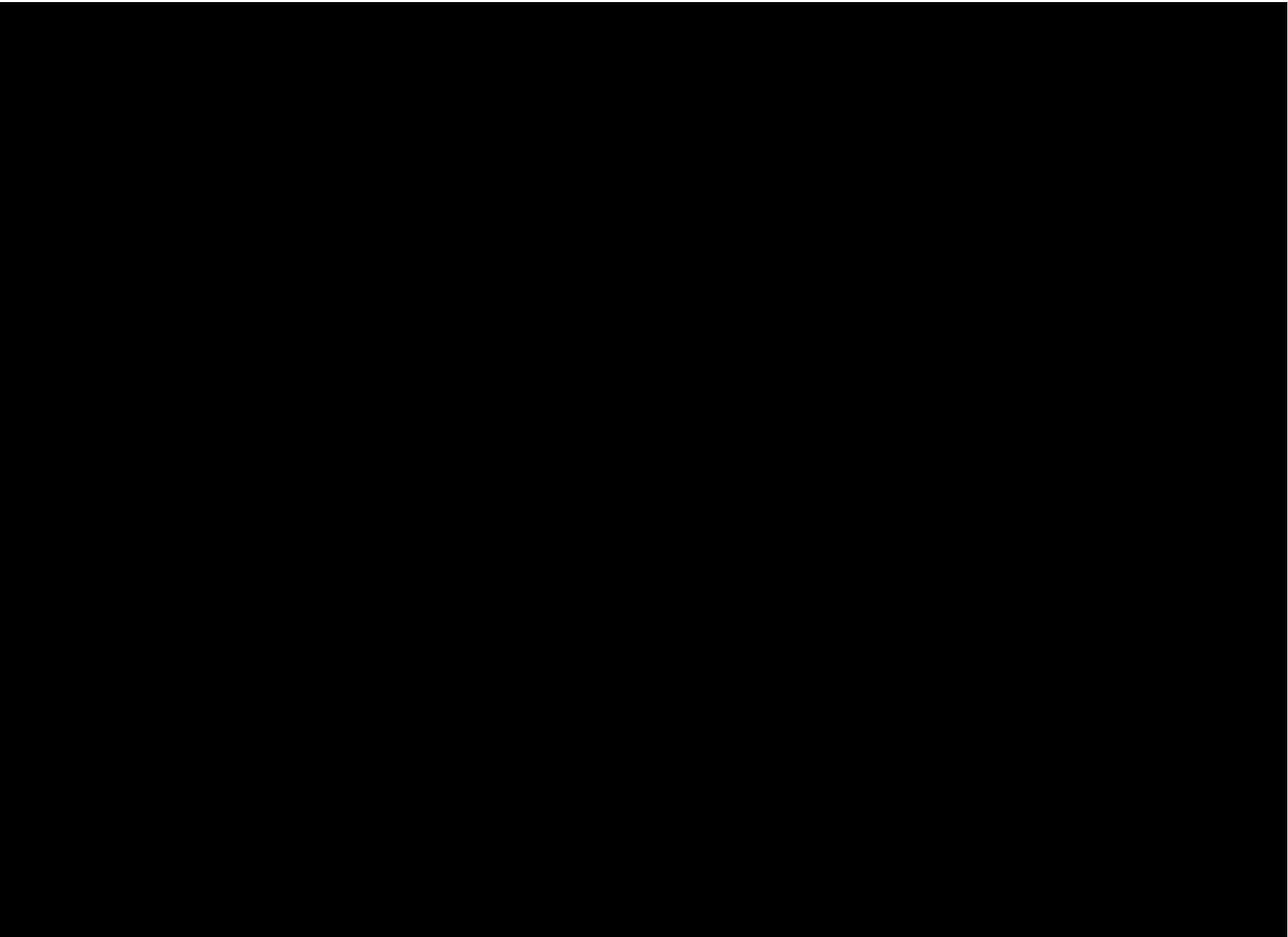
Conclusion

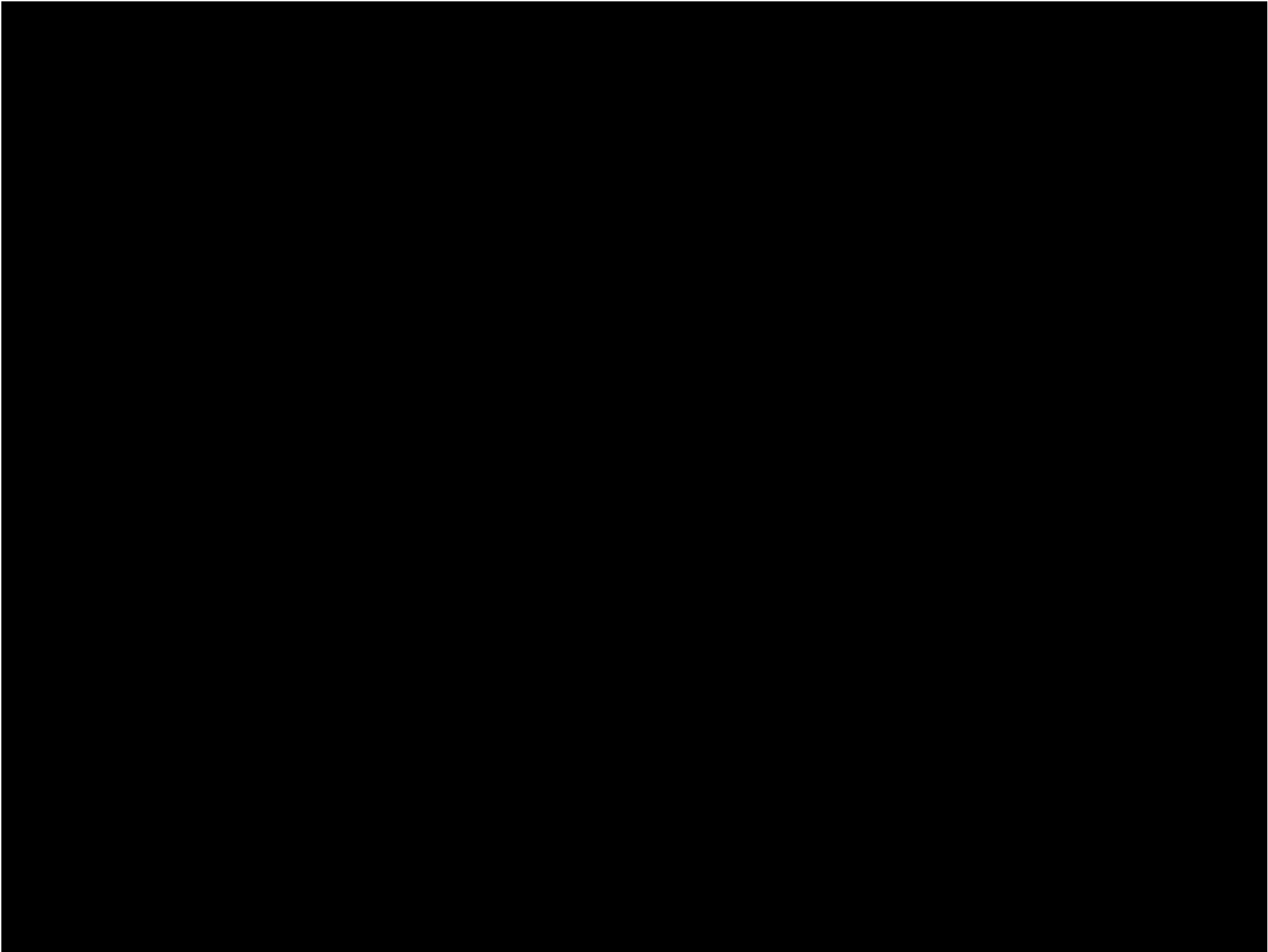
To deliver on the Climate Act goals and a once in a generation economic opportunity, New York State needs offshore wind that is cost-effective and low risk. Offshore wind coming into New York needs to create New York jobs and address the historical injustices in communities impacted by fossil generation. More generally, New York offshore wind should create broad-based benefits for Disadvantaged Communities that have not yet been able to participate in the economic opportunities offered by the energy transition. And for this to be realized, offshore wind needs to be backed by a team with shared values, deep experience, relevant expertise, and financial strength resilient enough to remain steady through decades of changing global conditions.

This Project's unique features meet these needs in a way others cannot. With the fossil repurposing at Ravenswood, Attentive Energy will begin the transformation of New York City's largest generating facility, a historic environmental justice victory. The highly matured and de-risked transmission solution will reuse existing physical and electrical infrastructure to deliver power to New York City without the local opposition, permitting challenges, site control issues, and high upgrade costs that have plagued U.S. offshore wind farms to date. As part of these plans, the Project will build a Ravenswood O&M Hub that will provide union jobs and a Just Transition to a green workforce. At the same time, the Project has the opportunity to cement New York as the U.S. hub for offshore wind manufacturing by establishing GE Renewables nacelle and LM Wind Power blade facilities in the Capital Region and adding to the critical port network downstate through the construction of the Arthur Kill Terminal marshalling facility. Attentive Energy will fulfill its commitments to being a good neighbor by committing up to \$300 million towards protecting biodiversity and spearheading community investments that will build the energy transition workforce and provide opportunities to Disadvantaged Communities. Lastly, the Project is backed by Sponsors TotalEnergies and Rise, together an unmatched combination of offshore wind experience, local expertise, and financial strength. The Project will be a critical component of New York's just energy transition as the State builds a green economy.

A large offshore wind turbine stands in the ocean. The tower is yellow and the nacelle is white. A red and white service vessel is positioned near the base of the tower. The sky is blue and the water is a deep teal color. The text is overlaid on a semi-transparent white box in the upper right portion of the image.

NYSERDA needs offshore wind that is cost-effective and low risk. Offshore wind coming into New York needs to create New York jobs and address the historical injustices in New York's environmental justice communities. This Project's unique features meet these needs in a way others cannot.





References

<https://www.nyseda.ny.gov/-/media/Project/Nyserda/Files/About/Strategic-Plan/strategic-outlook.pdf> (Retrieved on 1/24/2023)

SECTION 2

IMPACT OF COVID-19 ON PROPOSER AND PROJECT DEVELOPMENT



Section 2 Table of Acronyms

CDC	Centers for Disease Control and Prevention
DEIJ	Diversity, Equity, Inclusion, and Justice
OSI	Ocean Surveys Inc
OWYAP	Offshore Wind Youth Action Program



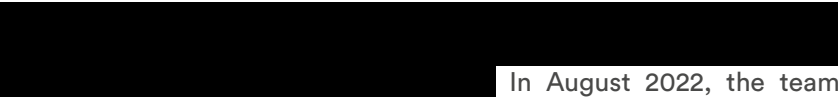
2. IMPACT OF COVID-19 ON PROPOSER AND PROJECT DEVELOPMENT

Attentive Energy's Response to COVID-19

Since inception, Attentive Energy has invested in people first and has committed to taking a community-minded approach to identifying, creating, and delivering lasting opportunities.

These extensive community engagements, alongside the Sponsors' collective expertise in developing large-scale infrastructure projects, is helping Attentive Energy optimize its delivery approach while managing risk as COVID-19 impacts and guidance continually evolve. Overarching processes and governance now include adaptive plans to manage lockdowns, new pandemics, and vulnerabilities that may impact the Project's access to resources and the supply chain.

Attentive Energy has taken the best pieces of its engagement strategy from the past few years to create a synergized, hybrid approach to collaborative Project development. This means that the team continues to build meaningful relationships through active on-the-ground engagement – the traditional efforts that have given Attentive Energy its reputation for being a purposeful contributor – and the meaningful use of virtual online platforms. Some recent virtual initiatives are outlined below:

1. 
In August 2022, the team initiated a state-wide small business survey to evaluate the challenges and business development pathways for DEIJ owned businesses to enter the offshore wind industry. The survey seeks feedback from for-profit and non-profit organizations in New York and focuses on procurement processes, grant applications, and DEIJ business certification.
2. Further leveraging effective online platforms, Attentive Energy recently launched a new website to facilitate better site navigation and help stakeholders find exactly what they're looking for. The website is designed to better represent the Project's core values, team, and engagement across the community, marine users, and supply chain partners. Attentive Energy adds regular Project updates to keep the community informed of developments big and small, opportunities for engagement, and resources to learn more about offshore wind at each stakeholder's convenience.

3. In July 2022, Attentive Energy presented a virtual guest lecture through SUNY Farmingdale, which included a presentation to William Floyd High School on offshore wind, careers in the industry, and helpful resources. The presentation included discussion on the OWYAP, which is an empowerment tool for young people across New York to learn about offshore wind, fight climate change, and support clean energy action in their communities. The virtual nature of the lecture facilitated increased participation from those interested in learning more about careers in offshore wind.
4. Attentive Energy is continuing to foster collaborative relationships with ocean users and the fishing community. Hybrid approaches to fisheries meetings are becoming more common, with in-person sessions supplemented by virtual options, and vice versa. The New England and Mid-Atlantic Fisheries Management Council Meetings, which Attentive Energy regularly attends in person, offer both an in-person option and a virtual broadcast option, appealing to a larger audience.
5. Attentive Energy's Sponsor Rise worked with OSI to develop the procedures necessary to safely and successfully complete the ocean surveys required for the Project's Article VII submission between summer 2021 and spring 2022.

Processes and governance include adaptive plans to manage lockdowns, pandemics, and vulnerabilities that may impact the Project's access to resources and the supply chain.

This creative use of virtual platforms to reach stakeholders across New York State – an approach that has become increasingly critical during the coronavirus pandemic – has been supplemented by direct investment in the local community where the Project’s physical onshore footprint will be. To help alleviate some of the pain that the pandemic caused, Rise recently donated \$130,000 to local community organizations specifically to aid COVID-19 recovery efforts, particularly in the most vulnerable populations, including:

- [REDACTED]

- [REDACTED]
- [REDACTED]

Further building on the investments above, the Project is committing to additional investments within the community to create local employment and economic development opportunities. Additional details are provided in Section 19.



Ravenswood Generating Station, NYC’s largest power plant

On the Ground COVID-19 Response at Ravenswood

Ravenswood Generating Station, NYC's largest power plant and the Project's location for onshore facilities, has been especially close to the impacts of COVID-19 in NYC. Due to strict adherence to established COVID-19 protocols, the Ravenswood workforce did not face a single work-related transmission of the COVID-19 virus. The precautions below were developed and implemented to limit the impact of COVID-19 and maintain an ability to provide safe and reliable electricity on demand. As the COVID-19 pandemic has evolved, protocols have been adjusted with the changing CDC, NYC, and New York State guidelines to continue business, but Rise and Ravenswood are prepared to reimplement policies as necessary to maintain operational capability regardless of circumstances.

Thanks to strict adherence to established COVID-19 protocols, the Ravenswood workforce did not face a single work-related transmission of the COVID-19 virus.

Discontinued Protocols

- **Reduced Staffing:** On-site staffing was cut in half during the peak of the pandemic by deferring non-critical work and utilizing six shift teams to operate and maintain the facility. For two weeks, two teams split the day and night shift. After two weeks, two different teams split the shifts. This structure provided all teams with a minimum of 14 days of time at home (a built-in quarantine) in between work schedules.
- **Remote Meetings:** All meetings were held via conference call or a video conference platform. Shift turnovers were completed over the phone with no direct contact. Departing operators disinfected the workspace and left before their replacements entered the workspace. Arriving operators did not enter the workspace until it was vacant. Before beginning work, the space was disinfected again.
- **Physical Work on the Project:** Notwithstanding the above, certain physical prefatory work was required on the Project. Scheduling delays were generally minimized thanks to remote working procedures followed by staff, project consultants, vendors, counterparties, and other external stakeholders.

Ongoing Protocols

- **Continuous Health Monitoring:** All employees and visitors are screened daily when entering Ravenswood.
- **On-Site Social Distancing Measures:** Physical access to control rooms is limited to key employees. Other station employees work in their assigned areas only and have limited contact with coworkers.

A Demonstrated Commitment to Minimizing the Adverse Impacts of COVID-19

Throughout these unprecedented times, Attentive Energy has continued to build trusted relationships with communities and suppliers to advance Project development. Despite disruptions to nearly every global supply chain, Attentive Energy has actively worked to ensure that effects of the pandemic will not adversely impact key execution milestones and the delivery of offshore wind opportunities to New York State.

Attentive Energy's approach to COVID-19 is guided by its community commitments. This is demonstrated in the efforts to create in-person and online platforms to continue meaningful conversations, the charitable outreach done in the Queens community, and the successful COVID-19 protocols that kept Ravenswood operating through the peak of the pandemic. Attentive Energy and its Sponsors will continue this focus on safety and risk management throughout the Project's life.



Attentive Energy team at a site visit

SECTION 3

PROPOSER QUALIFICATIONS



Section 3 Table of Acronyms

BOEM	Bureau of Ocean Energy Management
BSEE	Bureau of Safety and Environmental Enforcement
CAPEX	Capital Expenditures
█	█
CEO	Chief Executive Officer
Climate Act	Climate Leadership and Community Protection Act
COO	Chief Operating Officer
COP	Construction and Operations Plan
DEI	Diversity, Equity, and Inclusion
DGEC	Direction Générale de l'Énergie et du Climat (Directorate General for Energy and Climate)
DOD	U.S. Department of Defense
EBITDA	Earnings Before Interest, Taxes, Depreciation, and Amortization
EIA	Environmental Impact Assessment
EM&CP	Environmental Management and Construction Plan
EPA	Environmental Protection Agency
EPC	Engineering, Procurement and Construction
EPCI	Engineering, Procurement, Construction & Installation
█	█
FDNY	Fire Department of the City of New York
FEED	Front End Engineering Design
FERC	Federal Regulatory Commission
FID	Final Investment Decision
FLiDAR	Floating Light Detection and Ranging
FOSSI	Future of STEM Scholars Initiative

ft	Feet
GW	Gigawatt
HBCU	Historically Black Colleges or University
HDD	Horizontal Directional Drilling
HSEQ	Health, Safety, Environment, and Quality
HVDC	High Voltage Direct Current
JV	Joint Venture
km	Kilometers
Lease Area	Lease Area OCS-A 0538
LPA	Labor Peace Agreement
m	Meters
M&A	Mergers and Acquisitions
MBA	Master of Business Administration
mi	Miles
MW	Megawatt
nm	Nanometers
NMFS	National Marine Fisheries Service
NYCDOB	NYC Department of Buildings
NYCDOT	New York City Department of Transportation
NYCEDC	New York City Economic Development Corporation
NYISO	New York Independent System Operator, Inc.
NYSDEC	New York State Department of Environmental Conservation
OCS	Outer Continental Shelf
OEM	Original Equipment Manufacturer
OPEX	Operating Expenses
PLA	Project Labor Agreement

Project Area	Lease Area and the export cable corridor to the onshore POI
REC	Renewable Energy Certificate
█	█
█	█
RTE	Réseau de Transport d'Électricité (Electricity Transmission Network)
SCIP	Supply Chain Investment Plan
SIMOX	Sustainable Installation of XXL Monopiles
TCC	Transmission Congestion Contract
TGP	TotalEnergies Global Procurement
TWh	Terawatt Hours
USCG	U.S. Coast Guard
VP	Vice President
WTG	Wind Turbine Generator

3. PROPOSER QUALIFICATIONS

Business Entity

A Dedicated Partner for New York

Attentive Energy’s mission is to deliver offshore wind and empower communities. Attentive Energy benefits from the global experience, local expertise, and financial strength of its Sponsors, TotalEnergies and Rise. The Sponsors bring extensive global offshore operational knowledge, unmatched local expertise from a Sponsor that is active daily in NYISO markets, and financial strength from a global multi-energy company.

Attentive Energy believes large-scale offshore wind has the power to address the climate crisis while establishing lasting economic benefits that promote equity and inclusivity to uplift frontline communities. Attentive Energy is active in New York, creating meaningful relationships to support local businesses and jobs. Attentive Energy holds its values close and lives them each day because it is determined to leave stakeholders, and communities better off than when it started.



Deep Experience

Attentive Energy draws on the leadership and pioneering experience of world-class partners who are advancing the energy transition to deliver uniquely local climate and economic solutions.



Forward Thinking

Attentive Energy is propelling a generational opportunity forward to strengthen communities, forge a new industry, and build an inclusive clean energy economy today and for the future.



Community Minded

Attentive Energy believes offshore wind starts onshore within the communities. Attentive Energy invests in people first, becoming ingrained as a partner from the start to create opportunities that power the future.

Figure 3-1 Attentive Energy Values

Attentive Energy puts the shared success that comes from partnering with communities at the forefront of its mission. In February 2022, Attentive Energy secured the Lease Area in BOEM’s offshore wind lease auction, establishing its long-term presence in the New York Bight.

The Attentive Energy team is committed to continuing its years-long engagement and outreach approach by closely collaborating with a broad coalition of stakeholders to bolster a new clean energy economy in New York. The team is based in New York and operates at an office space in midtown Manhattan at the address below:

Attentive Energy LLC
12 E. 49th St., 11th Floor
New York, New York 10017

Attentive Energy’s commitment to advancing equitable offshore wind opportunities in New York State, coupled with the Sponsors’ deep global experience and presence in the New York energy sector, promises New York a project that is sustainable and transformative.

Attentive Energy offers New York State a team that is uniquely qualified to deliver a large-scale offshore wind facility. Its Sponsors combine the extensive offshore construction and operations experience of a global multi-energy company with decades of local operating experience of New York City’s largest power generator. This team includes pioneers in the American offshore wind industry and veterans of offshore construction. Together, the Attentive Energy team is well prepared to deliver for New York State.

Attentive Energy Structure

Attentive Energy is a Delaware limited liability company with a principal place of business in New York, New York. Attentive Energy was organized and authorized on July 19, 2021, to conduct business under the laws of the State of Delaware.

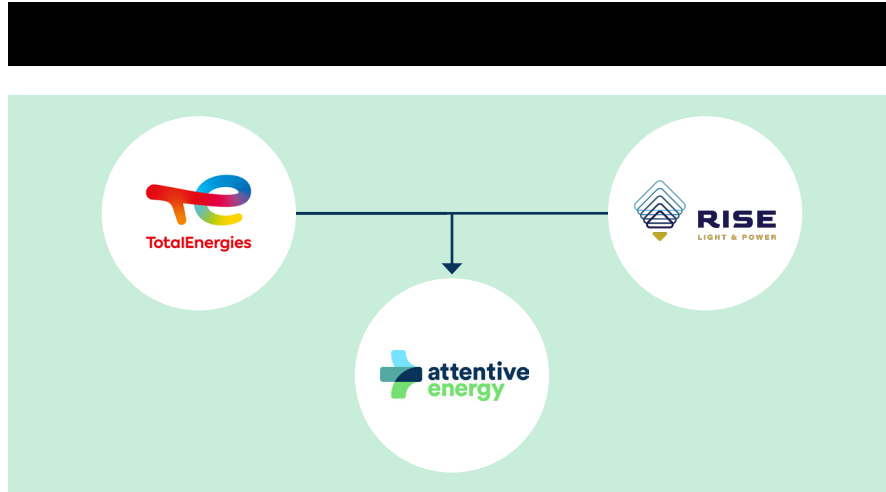


Figure 3-2 Shareholders of Attentive Energy

- TotalEnergies (together with its affiliates) is a global multi-energy company that produces and markets fuels, natural gas, and electricity. As part of its ambition to reach net zero by 2050, TotalEnergies is building a portfolio of activities in renewables and electricity, including a portfolio of offshore wind projects with a total capacity of more than 11 GW and a portfolio of 25 GW of renewables (wind, solar, and storage) in the U.S.
- Rise (together with its affiliates) is a specialist in the energy transition business. Rise owns and operates Ravenswood, the largest thermal facility in NYC, which has been a vital part of New York’s energy system for nearly 60 years. Ravenswood proudly employs approximately 90 union members from the New York metro region and provides more than 20% of NYC’s generation capacity.

The Sponsors have the global experience, local expertise, and financial strength necessary to successfully deliver the Project for New York regardless of changing industry or macroeconomic conditions.

TotalEnergies

TotalEnergies is a multi-energy company that produces and markets fuels, natural gas, and electricity. Its 100,000 employees are committed to energy that is ever more affordable, cleaner, more reliable and accessible to as many people as possible. Active in more than 130 countries, TotalEnergies’ ambition is to become the responsible energy major by putting sustainable development in all its dimensions at the heart of its projects and operations to contribute to the well-being of people. TotalEnergies is based in France and listed on the Paris Stock Exchange. The company has a secondary listing at the New York Stock Exchange.

Created in 1924, TotalEnergies has always been driven by an authentic pioneering spirit. The company produces and markets a vast portfolio of energies on a global scale, including renewables, electricity, oil and biofuels, and natural gas and green gases. Through its global ventures, TotalEnergies has deep experience in developing and maintaining complex offshore assets.

TotalEnergies strives to be a world-class leader in the energy transition. As part of its ambition to get to net zero by 2050, TotalEnergies is building a portfolio of activities in renewables and electricity. At the end of June 2022, TotalEnergies’ gross renewable electricity generation installed capacity is close to 12 GW.

As part of its Net Zero by 2050 ambition, over the past five year TotalEnergies has invested more than \$10 billion in renewable power generation capacity. It currently has more than 11 GW of offshore wind projects in its portfolio.

TotalEnergies sees strong growth potential in offshore wind energy. To ensure that best practices are identified and implemented across its portfolio of projects, TotalEnergies created a community of global technical experts, called “OneTech”, which brings together more than 3,400 specialists, including engineers, scientists, and technicians, across various branches of TotalEnergies to pool expertise and accelerate the development of renewable energy solutions, particularly offshore wind. Additional background on OneTech is provided in Attachment 3-A.

TotalEnergies’ offshore wind portfolio also benefits from the TotalEnergies Global Procurement organization, known as TGP, which has long-standing and strong relations with the leading suppliers and operators in the maritime and offshore wind industry. Across projects, TGP prescribes the processes and best practices that guide the preparation and awarding of study contracts and execution service contracts for industrial projects. These relationships are being leveraged to control project costs and minimize procurement risks through TotalEnergies’ increased global buying power. Additional background on TGP is provided in Attachment 3-B.

TotalEnergies will continue to expand its business to reach 35 GW of gross production capacity from renewable sources and storage by 2025, and 100 GW by 2030, with the objective of being among the world’s top five producers of electricity from wind and solar energy. Sustainable development is at the heart of TotalEnergies’ strategy, projects, and operations to contribute to people’s well-being. TotalEnergies has structured its corporate social responsibility approach for conducting its activities to contribute to the achievement of the United Nations Sustainable Development Goals. TotalEnergies’ approach is based on four pillars:

- climate and sustainable energy;
- people’s well-being;
- care for the environment;
- creating value for society.

TotalEnergies creates and drives positive change for communities in its host territories and, more broadly, for its employees, suppliers, customers, partners, states, and civil society. TotalEnergies’ commitments to protect biodiversity and foster the development of economic opportunities for local communities are fundamental to the Project.

TotalEnergies has been present in the U.S. since 1957 and is active in more than 34 states, including New York. It has extensive experience working with Federal and State agencies in U.S. waters and has been qualified to operate offshore activities in Federal waters since 1965. This experience with Federal agencies such as BOEM, BSEE, NMFS, EPA, and the USCG is important to understanding and complying with the complex regulatory environment applicable to offshore wind development.

Projects of all sizes forged across the globe ensure that TotalEnergies remains at the forefront of knowledge and technology. Through research and development, exploration and production, TotalEnergies has a wealth of data and know-how ready to use. TotalEnergies is well-versed at adapting to new environments and applying its diverse skills to new ventures; its expansive offshore knowledge base will be leveraged for Attentive Energy One.

Rise Light & Power

Rise is an owner, operator and developer of energy assets based in Long Island City, Queens, and a daily participant in NYISO markets, stakeholder processes and shared governance structures. It is in the energy transition business and is actively developing large scale clean energy projects in New York to transform its main asset, Ravenswood, into a clean energy center. Rise is committed to advancing the Climate Act targets, including its commitment to 100% renewable energy over the next two decades. Rise is a wholly owned, independently operated subsidiary of LS Power, a development, investment, and operating company focused on the North American power and energy infrastructure sector. LS Power has developed, constructed, managed, and acquired more than 45,000 MW of competitive power generation and over 660 mi of transmission infrastructure, for which it has raised over \$48 billion in debt and equity financing to invest in North American infrastructure.

As the owner-operator of the largest power station in NYC, providing 20% of NYC’s generation capacity, Rise employs approximately 90 members of UWUA Local 1-2 and has extensive experience providing services to the NYISO market.

Rise is proud to be a New York-based company. Its senior management team is based in NYC and the major decisions affecting its business are made locally.

Rise has worked hard to earn the trust of its local community and stakeholder groups and embraces its responsibility as a catalyst for positive change. As its business expands, New York can benefit from Ravenswood's transformation into a clean energy center and with it the growth of the company.

Rise knows what it takes to be successful in NYC. Ravenswood was built in 1963 and has been providing reliable power to NYC ever since. The entities constituting Rise were first established in 1999 to acquire Ravenswood and associated energy infrastructure from Con Edison. In 2017, LS Power acquired the entities constituting Rise and in 2020 rebranded them as Rise Light & Power, committing to a new vision for Ravenswood that would leverage its assets and resources to develop new, large-scale clean energy infrastructure.

Since 2017, LS Power has invested over \$200 million to maintain the critical reliability Ravenswood provides to NYC and develop new clean energy infrastructure projects. For over two decades, Rise has successfully navigated the various changes to the New York State energy markets. This includes compliance with all environmental requirements, labor standards, and NYISO market rules. This experience provides Rise with a comprehensive understanding of the various policies, market factors, and other considerations that could arise as part of the Grid in Transition efforts underway by New York State and the NYISO, including products and rules associated with storage.

Rise also has directly relevant experience in the retirement and redevelopment of fossil-fired facilities. In recent years, Rise has removed from service or retired nearly 500 MW of fossil-fired peakers at Ravenswood. With this, Rise has a significant amount of experience in, and knowledge of, the regulatory processes required for fossil repurposing.

Finally, the Rise team is highly experienced in energy infrastructure operations, maintenance, development, ownership, marketing and financing, including for battery storage projects. The Rise team has been at the forefront of the U.S. offshore wind industry and has extensive experience working in New York State.

Today, Ravenswood owns and operates approximately 1,800 MW of 1960's-vintage Rankine Cycle Steam facilities, one in-service Simple Cycle Gas Turbine and a 2004-vintage 250 MW nameplate Combined Cycle facility. It played a major role in re-energizing the grid after the 2003 Northeast Blackout. It has continuously delivered safe and reliable service during major weather events, including Hurricane Sandy – during which it provided up to 50 percent of NYC's energy – and others, like extreme cold weather events such as the "Polar Vortex" and "Bomb Cyclone." The transformation of Ravenswood into a clean energy center will help usher in the new era of sustainability envisioned in the Climate Act, even as it continues its 60-year legacy of providing reliable power to New York.



Rise's Ravenswood Generating Station has provided reliable power to New York City for 60 years

Diversity, Equity, and Inclusion

Attentive Energy strongly supports NYSERDA's continued commitment to DEI. The Sponsors are united by a shared respect for their team members, which means making people the core focus of their collective undertaking, valuing diversity as a major strength to Project development, and paying attention to the quality of employee dialogue within the team that will create pathways for future opportunities.

Since 2020, Attentive Energy's team has been elevating the importance of DEI hiring policies and the importance of getting it right from the start in offshore wind, both in New York and nationally. In the last two years, Attentive Energy has been featured on several national platforms, such as The American Clean Power Association and Business Network for Offshore Wind's industry conferences, raising the challenges of, and opportunities associated with, including proactive DEI policies into early project development. Discussion has also focused on what the industry as a whole should be doing with talent recruitment and internal pathways for maximizing diversity of background, skills, and perspectives. Attentive Energy's lessons learned from the beginning are that the Project – and industry at large – need to move forward on DEI in decision making. It is also important to have a DEI focus in both hiring and procurement. It is crucial to meet communities where they are and along forums and talent pools with dedicated outreach opportunities.

The American Clean Power Association launched an inaugural DEI Committee in April 2022 focused on advancing an equitable *Energy Transition for All* (ET4All Initiative) through three pillars. The pillars aim to engage transitioning workers and historically Disadvantaged Communities, provide economic value and opportunity to communities, and create leadership teams and a workforce representative of host communities where American Clean Power Association member companies operate. As a member of the DEI Committee, Attentive Energy attends monthly meetings and is an active member of the Committee's LinkedIn Group where cross-sector peers share DEI best practices. This enables Attentive Energy to utilize national experiences and insights to enhance Project development and meaningfully engage with diverse and underrepresented populations to develop an inclusive local offshore wind industry.

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

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These efforts will contemplate best practices for the selection of new Project officers and board members, and will guide Attentive Energy in recruitment, advancement, and in making Attentive Energy a more diverse, open, and comfortable place to work and do business with.

[Redacted]

Attentive Energy helped start the public conversation on DEI and EJ in the offshore wind industry and will continue to lead by example on DEI within the offshore wind industry and position itself as a meaningful partner in reaching the desired outcome for a more impactful and inclusive offshore wind industry.

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Ravenswood Generating Station

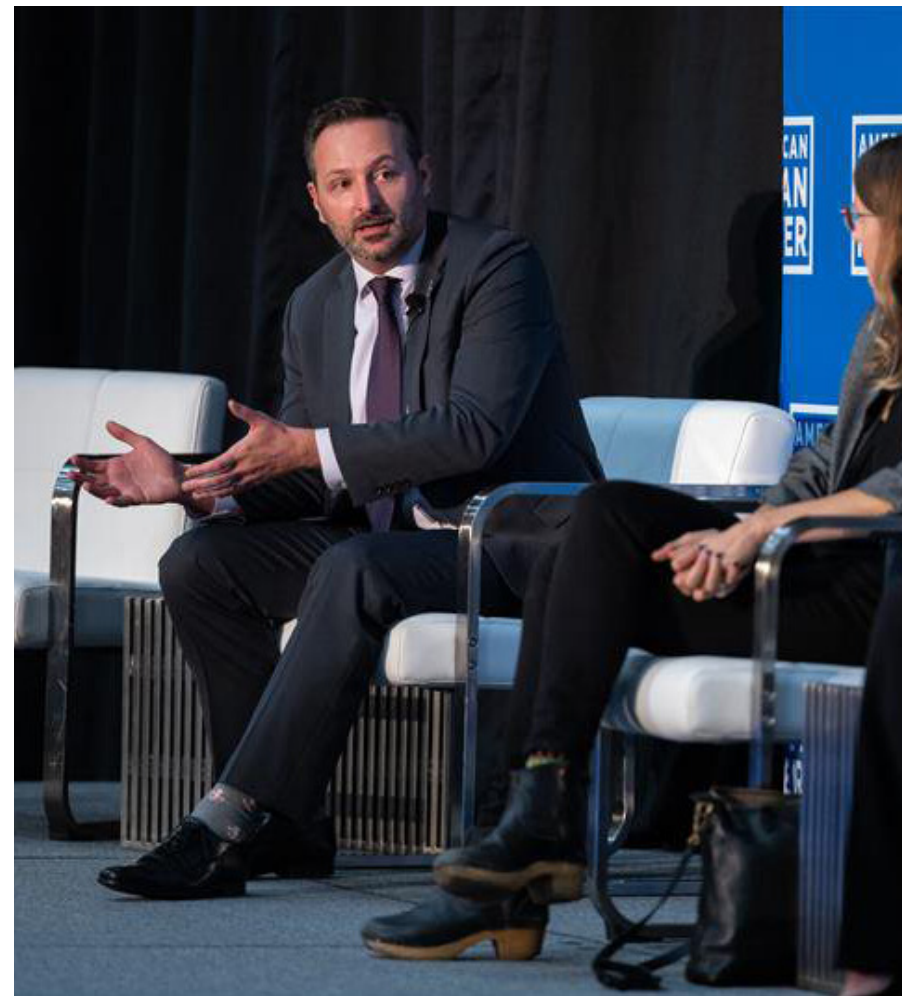
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Attentive Energy's Managing Director Damian Bednarz, speaking at the American Clean Power Offshore Wind Conference on DEI, 2022

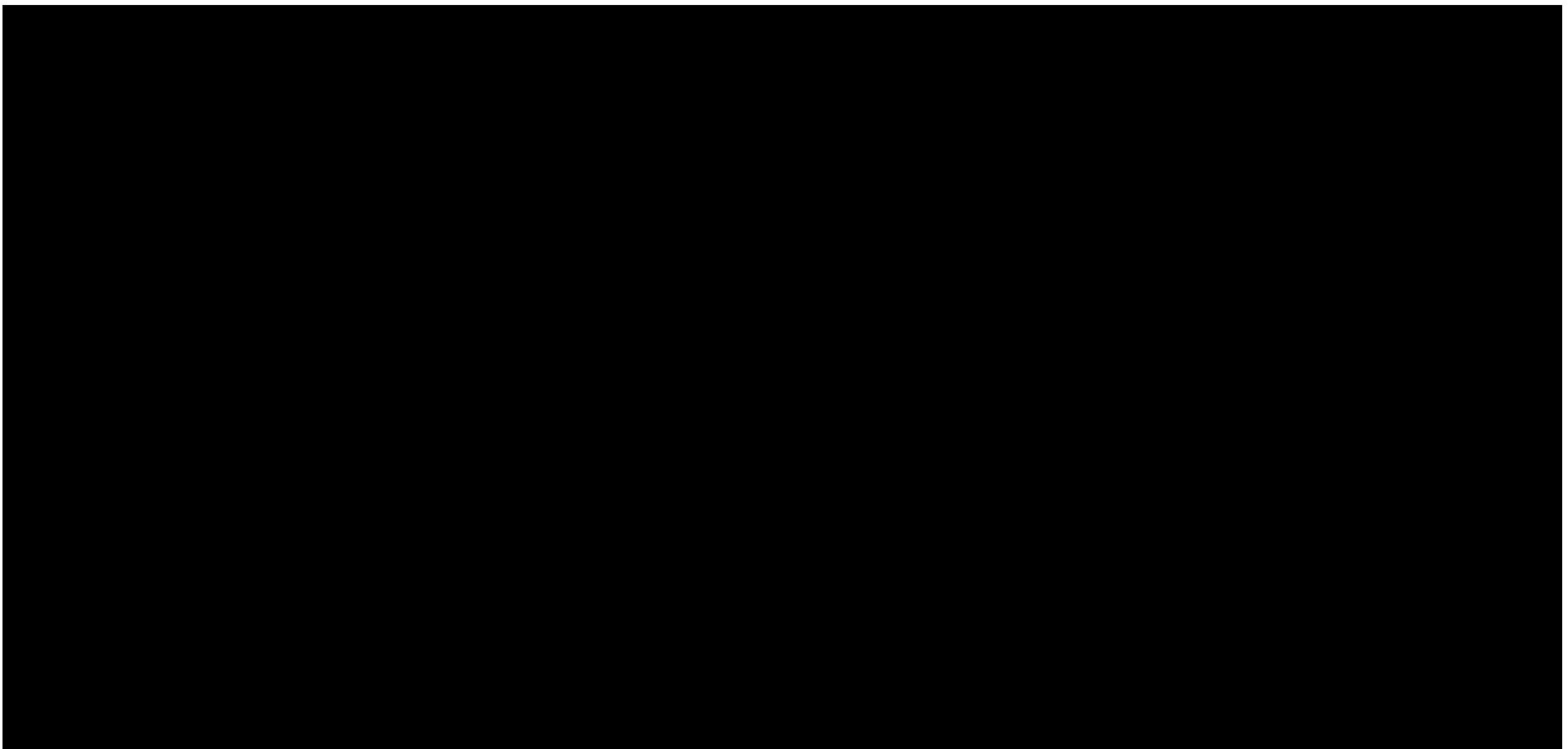
Project Sponsor Experience

TotalEnergies' Offshore Wind Experience

Attentive Energy benefits from the diverse, combined project portfolios of its Sponsors, and the Project will leverage the extensive experience that the Sponsors have gained from developing, financing, owning, and operating large-scale generation and transmission facilities. Through offshore wind and other global ventures, TotalEnergies has deep experience in developing and maintaining complex offshore assets. TotalEnergies is developing a portfolio of offshore wind projects, currently with total capacity of more than 11 GW, of which approximately two-thirds are bottom-fixed and one-third is floating. TotalEnergies has rights to the portfolio of offshore wind projects described below.



Seagreen offshore wind farm



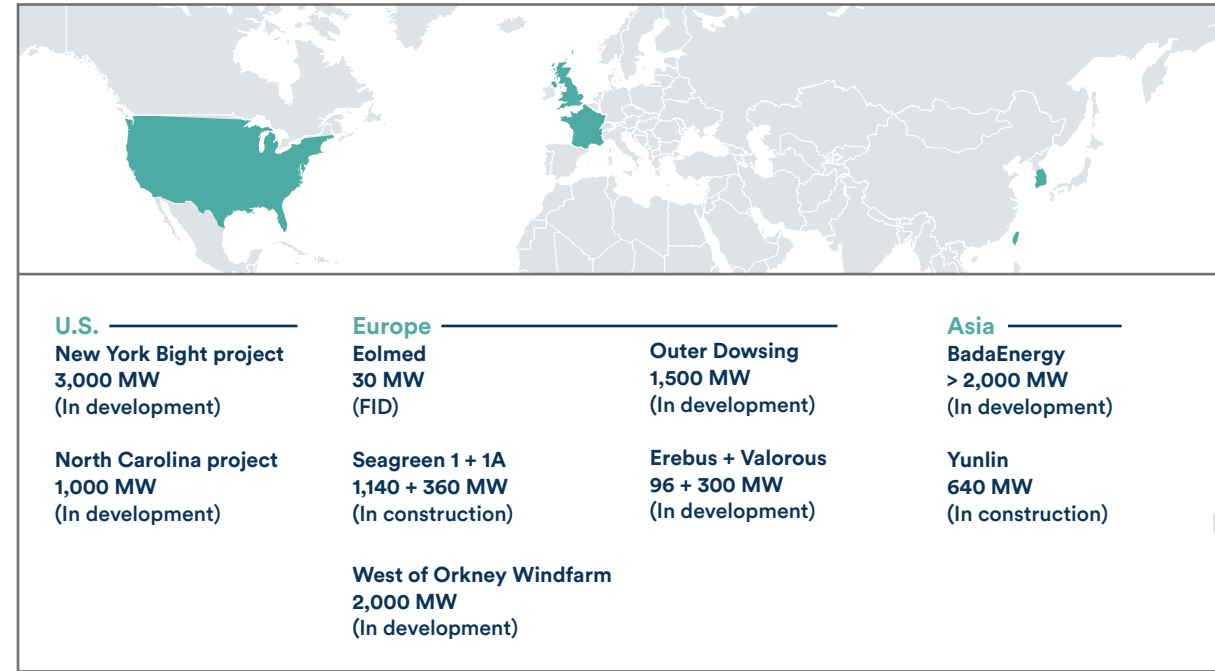


Figure 3-6 TotalEnergies' offshore wind portfolio

Contact information, including the names, office addresses, and telephone numbers of individuals to contact for each reference is below.

[Redacted contact information]

In addition to their involvement with the Project, specific members of the Attentive Energy team have been involved with other projects in TotalEnergies' offshore wind portfolio, including:

[Redacted list of other projects]

Seagreen 1 and 1A

The Seagreen offshore wind project is located off the coast of Scotland. In June 2020, TotalEnergies entered into an agreement with SSE Renewables to acquire a 51% stake in the Seagreen 1 project.

The first turbine of the Seagreen offshore wind farm was commissioned in the North Sea on August 23, 2022. Located 27 km off the coast of Angus in Scotland, Seagreen anticipates a total of 114 wind turbines by the first half of 2023. The turbines will use jacket foundations. The water depth across the Seagreen wind farm site varies between 39.77 m and 64.82 m, with seabed conditions of gravel and silty sand, as well as rock at 10-15 m. The successful installation of jacket foundations in these water depths and seabed conditions are a significant achievement in the development of fixed-bottom foundations, as the Seagreen project represents the world's deepest fixed-bottom wind farm. When fully operational, the facility will generate some 5 TWh of renewable electricity every year, enough to supply 1.6 million homes with green power.

In 2022 TotalEnergies constructed and commissioned the Seagreen offshore wind project in Scotland, the deepest fixed-bottom offshore wind project in the world and a close analog to Attentive Energy's project.

The Seagreen 1 project is one of the largest offshore wind farms in the U.K. North Sea, representing a global investment of around \$3.7 billion. TotalEnergies participated in setting up the project financing. Wherever possible, the Seagreen team proactively consults with local communities, local businesses, elected members, and other key stakeholders to receive feedback and help shape project plans.

Seagreen will be the world's deepest fixed-bottom offshore wind farm, sited in water depths of up to 194 ft (59 m). Once completed, the Seagreen project will be Scotland's largest offshore wind farm. Seagreen is expected to make a significant contribution to the U.K.'s green recovery from coronavirus by unlocking £3 billion of low carbon investment.



Seagreen's Vestas 10 MW wind turbines

Erebus

The Erebus project is a pioneering floating wind project located in the Celtic Sea, in Wales. TotalEnergies and Simply Blue Energy, a Celtic Sea energy developer, have established a partnership to develop floating wind projects in waters of the Celtic Sea. The joint venture, called Blue Gem Wind, was announced in March 2020 and opens a new chapter in the development of offshore energy in the U.K. Recent project activities include FLiDAR, geophysical surveys, and bird and mammal aerial surveys. The project also recently entered the FEED phase after submitting the EIA and Marine license application in December 2021.

TotalEnergies holds an 80% stake in the Erebus project and is leading project development, design, construction, operation, and dismantling. The use of floating technology, in this case the technology "WindFloat", developed by the Principle Power group, will allow this 96 MW project to be installed in an area where the water depth reaches up to 75 m. When commissioned, it will be one of the largest floating wind projects in the world.

Erebus solidified TotalEnergies' role as one of the first movers in floating technology in the U.K., the world's largest offshore wind market.

Valorous

Valorous is the second floating offshore wind project in the Celtic Sea being progressed by Blue Gem Wind. The proposed site is approximately 50 km southwest of the Pembrokeshire coastline. This project follows on from Erebus, the 96 MW test and demonstration project that is already in development.

The 300 MW Valorous project is expected to power 279,652 homes per year with innovative floating wind technology.

Outer Dowsing

The Outer Dowsing project is located off the U.K.'s East Anglian coast. The project is being developed by TotalEnergies and Corio with a production capacity of 1.5 GW. The project will enable the two partners to expand in the U.K., which is Europe's most mature market for offshore wind and provides steady growth perspectives and a clear route-to-market.

The Outer Dowsing project will use monopile foundations for its turbines. Two geophysical survey campaigns were recently performed, including a survey of the offshore wind farm in Q3 2021 and an export cable corridor survey in Q3 2022. The project has also performed various aerial surveys and deployed a FLiDAR to the project site in April 2022.

The Outer Dowsing project will support significant employment opportunities and play a critical role in helping the U.K. meet its ambitious net zero target.

West of Orkney

The West of Orkney wind farm will be located 30 km off the west coast of Orkney in Scotland. A joint venture between TotalEnergies and RIDG, a Scottish developer in offshore wind, successfully secured rights to develop a 2 GW offshore windfarm project in the ScotWind leasing round. This project aims to start producing renewable power by 2030. Once built, the wind farm could also deliver renewable power to the Flotta Hydrogen Hub, a proposed large-scale green hydrogen production facility in Orkney.

As part of this development, the partners will unlock a £140 million initiative¹ to support the development of the local supply chain. Funds will be allocated across a range of initiatives, including:

- Over £9 million of direct support for the enhancement of local ports and harbor infrastructure in the north of Scotland;
- Funding design and delivery studies to allow suppliers to plan investment in additional capability and capacity, and position themselves competitively against the project's procurement requirements;
- A bespoke program with the Orkney-based European Marine Energy Centre to support innovation and cost reduction in areas specific to the West of Orkney Windfarm;
- A skills development program over the next five years to support long-term employment opportunities in the wind sector and to support the project's ambition to achieve a 50-50 gender balance across all operations from first generation;
- £33.5 million to a Supply Chain and Infrastructure Investment Fund, that will be used to leverage match funding from third parties and deliver a significant change in Scottish and U.K. supply chain preparedness.

The partners have also committed to spend a minimum £932 million in Scotland during development, construction and the first six years of operations, underpinned by a target of 60% U.K. content (40% in Scotland and 20% in the rest of the U.K.), measured over the life of the project. Details on the project partners' supply chain alignment model are available in the public *West of Orkney Windfarm Supply Chain Development Statement Outlook Document*.

The West of Orkney commits to developing the offshore wind supply chain across Scotland and the rest of the U.K. to ensure high levels of local content and actively promote employment and innovation in the region.

¹ The West of Orkney commitment to a £105 million project-level supply chain investment programme will be enhanced to £140 million through match funding from third parties.

Eolmed

The 30 MW Eolmed project is located more than 18 km off the coast of Gruissan and Port la Nouvelle (Occitan region) in France. Start of production for the Eolmed floating demonstrator project, operated by Qair and in which TotalEnergies has a 20% stake, is expected by 2024. TotalEnergies is responsible for providing key technical resources, including floating structure experts, project and contract management, and construction resources. The wind farm will consist of three 10 MW wind turbines mounted on steel floats and connected to the French RTE by an underwater cable.

Eolmed is part of the Occitanie Region's strategy to relocate industrial production: the consortium has chosen a joint venture formed by Matière and Ponticelli to produce the floats in Bagnac-sur-Célé (Lot) and Port-la-Nouvelle (Aude). This joint venture will benefit from the port's new infrastructure and will mobilize more than 600,000 man-hours of work across Occitania.

This project is part of TotalEnergies' strategy to develop floating wind energy, which allows access to deeper sites, farther from the coast, and to take advantage of greater wind resources.



Virtual rendering of TotalEnergies' 30 MW Eolmed project in France

Yunlin

The Yunlin offshore wind farm is located in Taiwan, and is one of the largest offshore projects under construction in Asia. TotalEnergies joined this project, operated by wpd, with a 23% interest in May 2021 alongside EGCO Group and a consortium of Japanese investors led by Sojitz. The Yunlin offshore wind farm is comprised of 80 turbines, each 8 MW, which use monopile foundations. The first turbine was commissioned and successfully connected to the grid in November 2021. Taiwan aims to source 20% of its energy portfolio from renewable energy by 2025, with offshore wind expected to play a key role.

The Yunlin project is expected to produce 2.4 TWh of renewable electricity per year, enough to serve the power needs of 605,000 households.

Bada

TotalEnergies and Corio have concluded a 50-50 partnership to develop a portfolio of five large floating offshore wind projects in South Korea. The Bada Energy project includes Grey Whale, Port Hamilton, and Jindo offshore wind farms. In total, the projects will have a capacity of around 2.3 GW. The partners aim to start the construction of the first 500 MW project by the end of 2023, for commissioning at the end of 2027. By 2030, South Korea aims to have renewables contribute to at least 20% of its power mix, including 12 GW of offshore wind capacities. Due to its extensive experience in offshore projects, as well as cooperation with many Korean shipyards, TotalEnergies is well positioned to contribute to the successful development of this new floating technology in South Korea. TotalEnergies is leading the design phase and will oversee the supply chain procurement.

Bada is the largest floating offshore wind project in the world. TotalEnergies will contribute to the diversification of its energy mix and support the emergence of a new industrial sector by maximizing Korean content within the supply chain of these projects.

TotalEnergies Carolina Long Bay

In May 2022, TotalEnergies was named the winner of offshore wind energy lease area OCS-A 0545 in the U.S., as part of the 2022 Carolina Long Bay BOEM lease auction. Located 20 nautical miles from the coast, the lease covers a 120 square nautical mile area that will generate a capacity of more than 1 GW, enough to provide power to more than 300,000 homes.

The Carolina Long Bay auction included a bidding credit mechanism for investments into supply chain and/or workforce development. TotalEnergies, as winner of site OCS-A 0545, has made a commitment to invest \$21.3 million in the development of domestic supply chain and workforce. TotalEnergies plans to submit its Site Assessment Plan for the Carolina Long Bay lease area in summer of 2023.

Other Offshore Wind Activities

In addition to the projects mentioned above, the Sponsors have announced strategic partnerships for continued involvement in the growing offshore wind industry.

Global

- A consortium of TotalEnergies, Corio, and Qair has been pre-selected by the DGEC to participate in an upcoming competitive tender for the development of a floating wind farm of up to 270 MW in Southern Brittany.
- A consortium of TotalEnergies, Corio, and Qair has been pre-selected by the French DGEC to participate in a competitive tender to develop two floating windfarms, each about 250 MW in the Mediterranean Sea. The two projects of about 250 MW each could supply enough clean energy to meet the annual electricity consumption of almost one million people.
- TotalEnergies, Iberdrola, and Norsk Havvind have joined forces to respond to the Norwegian authorities' call for tenders for the development of floating and bottom-fixed wind projects for a cumulated capacity of 4.5 GW at two offshore sites in southern Norway.
- In April 2022, TotalEnergies and KGHM, a major Polish State-owned group, signed a partnership to participate on a 50-50 basis in the Polish government tender for the development of offshore wind projects.

U.S.

- In October 2021, TotalEnergies and Simply Blue Group, a pioneer in floating offshore wind, announced the launch of a joint venture, TotalEnergies SBE U.S., to unlock the vast potential for floating offshore wind projects in the U.S.
- In July 2022, the TotalEnergies and Simply Blue Group joint venture, through a project company called Deep Blue Pacific Wind, announced their nominations for three sites in the Coos Bay and Brookings areas. The sites were identified as suitable areas to develop a cumulative 3 GW of floating wind off Oregon in the U.S. Pacific Northwest.
- TotalEnergies recently responded to the call for comments on offshore wind lease areas in the Gulf of Mexico. It is excited to see offshore wind coming to its U.S. home in the Gulf of Mexico where it already employs thousands of people.

Responsible Development of the Growing Global Offshore Wind Industry

TotalEnergies has announced its participation in several offshore wind industry organizations to promote responsible development of the growing global industry. TotalEnergies has joined the SIMOX project, allowing TotalEnergies to explore innovative and noiseless technologies for the installation of XXL monopiles. These technologies could serve as an alternative to conventional impact hammering and may be deployed to protect biodiversity in the North Sea. Lastly, TotalEnergies has also partnered with the Dutch Marine Energy Center, which is an international accelerator specialized in marine renewable energy.



In offshore wind, TotalEnergies is a member of the following consortia focused on responsible offshore wind development and R&D:

- U.S.:
 - National Offshore Wind Research & Development Consortium
 - Piling in Glauconite Sand Joint Industry Project
 - Responsible Offshore Science Alliance
 - Regional Wildlife Science Collaborative
- U.K.:
 - Offshore Renewable Energy Catapult Floating Wind Centre of Excellence
 - Carbon Trust Offshore Wind Accelerator
 - Carbon Trust Floating Wind Joint Industry Program
 - Carbon Trust Offshore Renewables Joint Industry Program
 - Carbon Trust The Integrator
 - National Composites Centre SusWind
 - (Participation in Offshore Renewable Energy Catapult on Circular Economy for the Wind Sector consortium in offshore wind is planned)
- Norway:
 - NorthWind
- France:
 - France Energies Marines
- Netherlands:
 - GROW, a joint research programme in offshore wind
- Denmark:
 - TotalEnergies Excellence Center of Clean Energy with Denmark's Technical University

Tied to responsible development is a commitment to safety. Safety is the core component of TotalEnergies' responsibility and one of the Company's Core Values; it is also the foundation of its long-term viability. Information on TotalEnergies' commitment to safety and its 12 Golden Rules are presented in Attachment 3-D.

TotalEnergies' Other Renewables & Storage Experience

In addition to its offshore wind projects and activities, TotalEnergies is involved in an array of projects globally and in the U.S. TotalEnergies is investing massively in solar and wind power with the aim to become one of the world's top five producers of renewable energy by 2030 – and it has become a top five renewable energy producer in the U.S. following the acquisition of 50% of Clearway Energy Group in 2022. In the past five years, the Company has invested more than \$10 billion, primarily in solar and offshore wind. In 2021, TotalEnergies increased its investments in electricity and renewables to more than \$3 billion, or 25% of its net investments. It intends to finance investments of more than \$60 billion in renewable power generation capacity by 2030. The mix combines regulated markets with deregulated markets integrated across the entire electricity value chain.

TotalEnergies' gross installed capacity for renewable power grew from 0.7 GW in 2017 to almost 12 GW at the end of June 2022. The company's objective is to achieve 100 gigawatts of installed renewable power generation capacity by 2030.

U.S. Renewables

- In large-scale solar, TotalEnergies is already developing 8 GW of projects following the acquisition of a projects development pipeline from SunChase, its partnership with Hanwha Energy and the acquisition of Core Solar.
- TotalEnergies is the majority shareholder of California-based SunPower, a leading solar technology and energy services provider, since 2011. In 2022, TotalEnergies agreed to purchase SunPower's Commercial & Industrial Solutions business, a market leader in solar power solutions for commercial business and residential customers with strong go-to-market channels. More than 350,000 homes in the U.S. have SunPower on their rooftops.

- In May 2022, TotalEnergies announced an agreement with Global Infrastructure Partners to acquire 50% of Clearway Energy Group, the fifth U.S. renewable energy player. This is the company's largest renewable energy acquisition in the U.S.

Energy Storage and Solar

- In large scale solar energy, TotalEnergies is developing 2.2 GW of projects, initially carried by SunChase Power, and 1.6 GW of projects in partnership with Hanwha Energy, which will be completed by the 4 GW of projects acquired from Core Solar. These portfolios also include energy storage projects.

TotalEnergies' wholly-owned U.S.-based subsidiary Saft's cutting-edge, off-grid nickel and lithium-ion technologies store excess energy efficiently and safely for use during the times wind and solar systems are unable to generate power. Saft is strengthening its business by expanding into electric mobility as well as the growing energy storage system market, which is expected to grow by more than 20% in the next five years.

TotalEnergies' Offshore Oil & Gas Experience

TotalEnergies has competitive advantages in developing safe and sustainable offshore wind solutions due to core competencies derived from its decades' long leading role in the offshore oil & gas industry. With extensive offshore experience, TotalEnergies has the technical excellence and managerial expertise to leverage a robust global supply chain via TGP, and to execute complex offshore projects. This is evidenced by its track record in managing major oil & gas procurement, including a

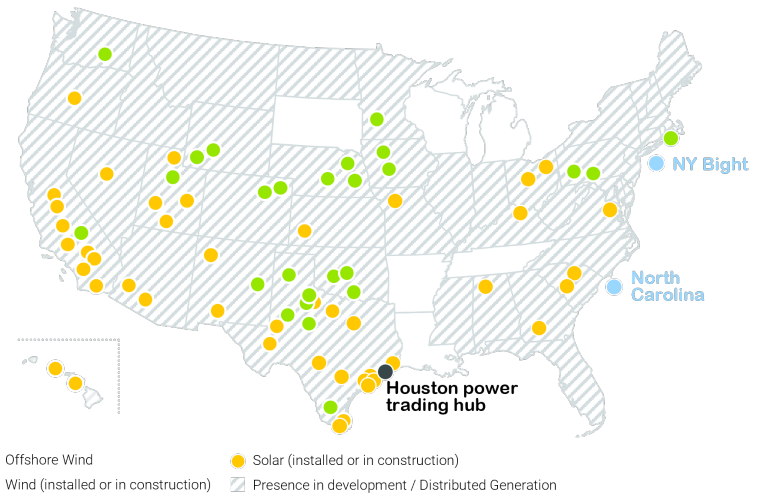


Figure 3-7 TotalEnergies' U.S. presence as of September 2022

Floating Production Storage and Offloading Unit manufactured in Korea, subsea components manufactured in Norway, and TC/TG components manufactured in the U.S., as well as managing interfaces on installation and drilling. These competencies and best practices have been translated to TotalEnergies' fixed-bottom and floating offshore wind projects. It will leverage this same experience in managing the development, construction and operations of Attentive Energy One.



Prieska solar plant in South Africa, which was designed and constructed by TotalEnergies' affiliate SunPower

Seagreen



Project description

The Seagreen project is under construction around 27 km from the coast of Angus in the North Sea. Seagreen is a joint venture between TotalEnergies and SSE Renewables, and once complete, will be Scotland's largest offshore wind farm, and the world's deepest fixed-bottom foundation. Seagreen, consisting of Seagreen 1 and Seagreen 1A, is permitted to install 150 offshore wind turbines.

114 × 10 MW Vestas turbines are currently being installed and will be fully operational in Q2 2023. First power was achieved in August 2022 and is exported to the grid via a new substation at Tealing near the city of Dundee in Scotland.

The remaining 36 offshore wind turbines will be constructed as part of a second phase. The power will be exported to the grid via Cockenzie, East Lothian.

Benefits

The 114 turbines being installed in the first phase will provide enough green energy to power more than 1.6 million homes, equivalent to two-thirds of all Scottish homes. They will displace over 2 million tonnes of carbon dioxide from electricity generated by fossil fuels every year.

TotalEnergies will mobilize for the project the know how accumulated via more than 4000 technical and procurement specialists to optimize, leverage lessons learned, and ensure exceptional project execution across all offshore projects worldwide. As a qualified operator in the US offshore waters for over five decades, TTE has participated in exploration of hundreds of leases and spent tens of billions of dollars developing and producing US offshore assets.

Partner	TotalEnergies
Location	U.K.
Project type	Offshore Wind
Project size	1,500 MW
Project technology	Fixed-bottom jacket foundations
COD	2023 for Phase 1

Moho Nord: One Example of TotalEnergies' Track Record Responsibly Operating a Large-Scale, Cutting-Edge Offshore Project

The Moho Nord is a deep offshore oil project located 47 miles off the Congolese coast. As the largest oil project ever undertaken in the Republic of the Congo, Moho Nord is a showcase for TotalEnergies' deep offshore operating expertise and a hub for cutting-edge technology. The project underscores the importance of safety and respect for the environment, as well as innovation and responsible development through the optimization of energy efficiency in installations. In addition, the first-ever all-electric Floating Production Unit, Likouf, was designed to have the smallest environmental footprint possible. Moho Nord had a positive impact on local employment, creating 12,000 direct and indirect jobs and benefitting from 600 Congolese companies working on the project, effectively showcasing TotalEnergies' commitment to leveraging and buttressing a strong local workforce.

With TotalEnergies' longstanding experience maintaining complex, large-scale offshore energy assets across various sectors, Attentive Energy will be able to execute on its plan to develop, construction and operate the Project.



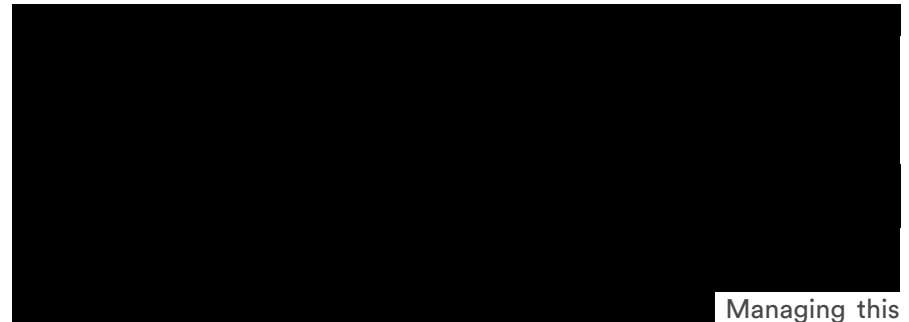
Moho Nord illustrates TotalEnergies' pursuit of innovative solutions with the design of the first-ever all-electric Floating Production Unit.

Rise Light & Power's Operating Experience

Rise's decades of experience in NYISO markets provide expertise that few other offshore developers have; this experience will de-risk Attentive Energy One by ensuring that it is adequately compensated in markets for its offshore wind generation.

The 2 GW Ravenswood Generation Station is the largest power plant in New York City, and Rise is responsible for all aspects of operating the plant on a day-to-day basis, as well as ensuring the plant will continue to reliably supply electricity to the city for as long as it is needed. As part of this, Rise is a daily participant in NYISO wholesale power markets, selling energy, capacity, and ancillary services. Rise sets and executes the strategy for selling energy and ancillary services into both the Day-Ahead and Hour-Ahead Markets for its Units 10, 20, 30, 40, and GT 10. Because all of the units have unique operating characteristics, the strategy for each unit varies depending on market conditions. Rise is also responsible for bidding the plant's units into NYISO's monthly and seasonal capacity auctions.

An important part of running Ravenswood is managing fuel procurement. The plant runs primarily on natural gas, which it sources from a variety of interstate pipelines via connections between the plant and Consolidated Edison's natural gas distribution system.



Managing this infrastructure, in coordination with the needs of an operating power plant, requires a detailed understanding of marine logistics throughout the New York area, including the East River and New York Harbor. This experience with marine logistics will be critical in the successful operations of Attentive Energy One run out of the Ravenswood O&M Hub.

Over 100 highly trained men and women work at Ravenswood to ensure that the plant can successfully meet its market and reliability obligations 24 hours a day, 365 days a year. This includes the staffing of three separate



Ravenswood site

control rooms: one for Unit 40, one for Units 10 and 20, and one for Unit 30. Operating these units requires high levels of coordination between on-site plant staff, Rise's commercial and asset management team, the grid operator and third party service providers such as barge and tugboat operators.

Rise also puts major effort into maintaining plant equipment. Units 10, 20 and 30 commenced operations in the 1960s, while Unit 40 is a 2004 vintage but one with a complex combined cycle generation system. Over the last 5 years, Rise has invested over \$200M in capital improvements to maintain safety and reliability, including major equipment replacement, fuel storage redevelopment, and interconnection infrastructure maintenance.

The result of careful operations and maintenance, as well as groundbreaking onsite project development, is a superb operating record and outage rates below the average for New York City fossil plants.

Rise has the right experience to safely and reliably operating complex energy infrastructure in New York City, and will provide the same reliability for Attentive Energy One.

Rise Light & Power Development Experience

Ravenswood Power Storage

Rise has been progressing efforts to permit a battery energy storage system at Ravenswood since 2017. In 2019, Rise successfully obtained a NYSPSC CPCN approval for a 316 MW battery storage project at Ravenswood, as well as a SEQRA Negative Declaration. It has worked with agencies including the NYCDOB and the FDNY in the permitting process and will continue to progress battery energy storage development at Ravenswood.

Rise has made significant progress development and permitting a battery system at Ravenswood.

Catskills Renewable Connector

Rise participated in NYSEERDA's Tier-4 REC solicitation in 2021 through its Catskills Renewable Connector. Through this project, which remains in active development, Rise aims to link abundant sources of renewable energy across the State to downstate communities. Investing in clean energy transmission solutions means well-paying jobs for New Yorkers, cleaner air for families, and an expanded tax base for communities across the State. Rise team has been actively involved navigating complex and shifting NYISO market rules pertaining to an interstate controllable link, the engineering and technical assessment of a 100+ mi 1.2 GW HVDC interconnector buried beneath roads, railroads and rivers connecting upstate New York with Ravenswood.

The Catskills Renewable Connector will deliver homegrown clean energy supply from upstate, where renewable resources and land available is greatest, to downstate, where energy demand is greatest.

Outerbridge Renewable Energy Center

In 2020, Rise commenced the development of the former E.H. Werner Power Station in South Amboy, New Jersey, to transform the site of the former coal power plant into a state-of-the-art clean energy hub, the Outerbridge Renewable Energy Center. This plan will integrate multiple complementary clean energy technologies on this site – including offshore wind, battery storage, and green hydrogen – in a way that will not only help decarbonize New Jersey’s energy system, but also accelerate the redevelopment of South Amboy’s waterfront.

The 26-acre, industrially-zoned site was retired as a fossil-fueled power plant in 2015. The site on Raritan Bay features an existing substation and switchyard, rail and highway access, a pier with expansion potential and unobstructed access to the Atlantic Ocean with 24 acres of submerged lands. Rise is currently completing remediation of the site, in accordance with the New Jersey’s Industrial Site Recovery Act. Once remediation is complete, Rise plans to implement the Outerbridge Renewable Energy Center plan.

Outerbridge will cost-effectively develop and interconnect multiple new renewable energy projects without building any new transmission infrastructure through beaches, parks, or other environmentally sensitive areas

Queensboro Renewable Express

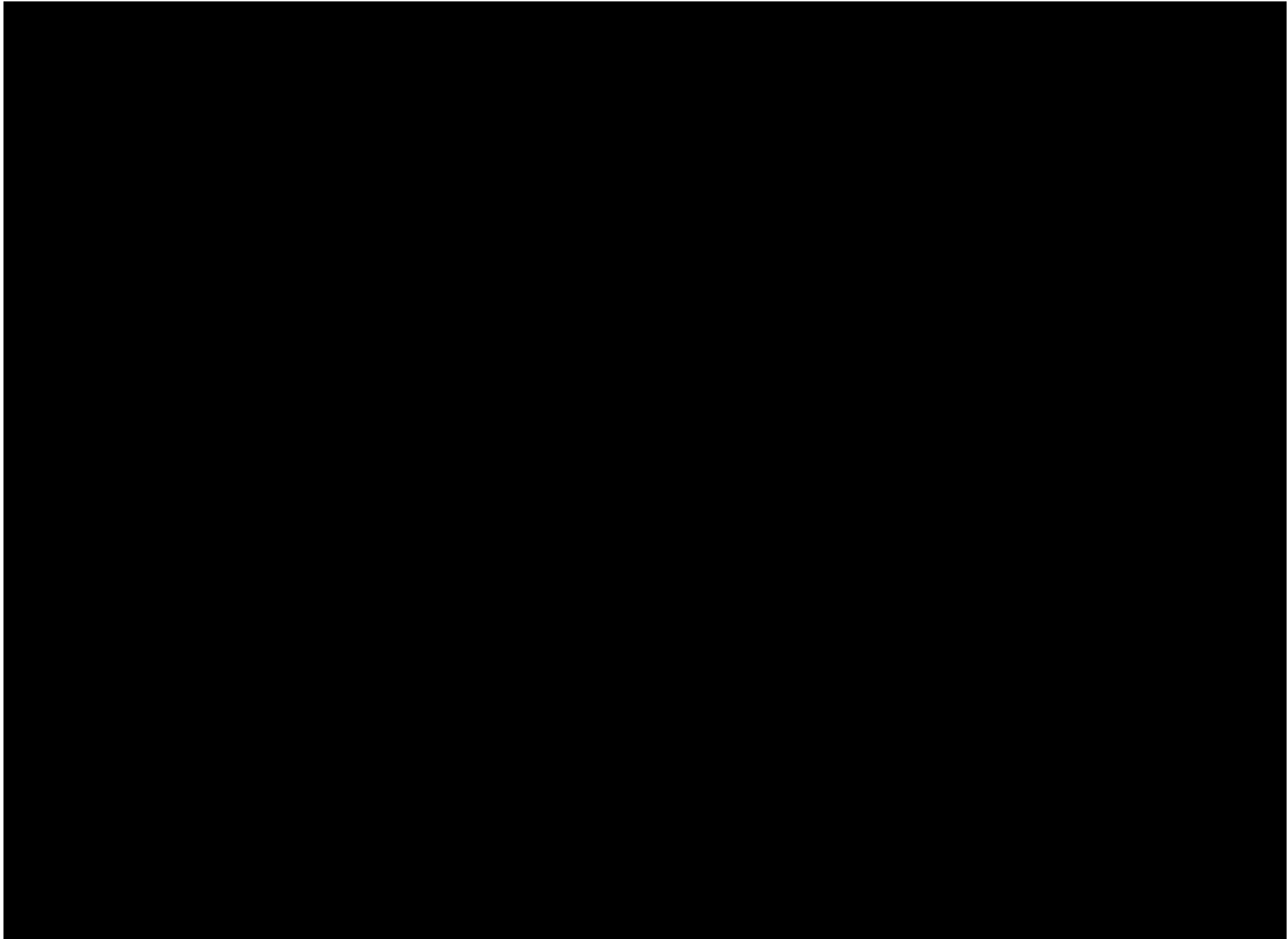
The Queensboro Renewable Express is a proposed transmission facility being developed by Rise with the capacity to deliver approximately 2.6 GW of offshore wind energy. The Queensboro Renewable Express will transmit electricity generated by offshore wind facilities into New York City and facilitate the retirement of fossil fuel power generations at Ravenswood Generating Station. It will consist of two discrete HVDC circuits, each capable of delivering up to 1,310 MW into NYISO Zone J via Ravenswood. One of the circuits, QRX1, will be used by Attentive Energy One. Rise submitted an Article VII application on December 2, 2022 in support of Queensboro Renewable Express, providing a matured transmission solution to help New York State reach its 9 GW offshore wind goal.

Queensboro Renewable Express will deliver up to 2.6 GW of offshore wind energy into the heart of New York City, replacing fossil fuel generation at Ravenswood



Rise Light & Power CEO Clint Plummer presents the Catskills Renewable Connector to stakeholders.

Rise offers NYSERDA an experienced team with significant experience operating in the NYISO market under evolving market rules, and navigating local, state and federal regulatory and permitting regimes, and the State’s aspirations to decarbonize the power grid. Rise is also developing a number of complex transmission and generation projects within the clean energy economy. Rise’s experience will help the Project accelerate the State’s Climate Act targets, provide a Just Transition to the plant’s union workforce, and have a net positive impact on surrounding Disadvantaged Communities.



Since 2017, Rise and LS Power have invested over \$200 million to maintain the critical reliability Ravenswood provides to NYC and develop new clean energy infrastructure. Rise will leverage its experience in infrastructure operations and marine logistics throughout the New York area to execute on the transformation of Ravenswood into a green energy hub.

Attentive Energy’s Other Projects and Activities



Management Chart

The Project Leadership Team

A list of key personnel dedicated to the Project is included in this section, and relationships between key personnel supporting the Project are demonstrated in Figure 3-9. Further detailed information regarding these team members’ experience, credentials, and education can be found on their resumes in Attachment 3-C.



Technical and Procurement

The technical team oversees the design and engineering of the Offshore Wind Generation Facility, operations and maintenance planning, procurement, supply chain, site surveys, export cable routing, meshed ready, interconnection and deliverability, fossil repurposing, and more.



Finance Commercial

The commercial team oversees financial modeling, estimating, accounting, revenue management, offtake contracting, and market regulatory affairs.



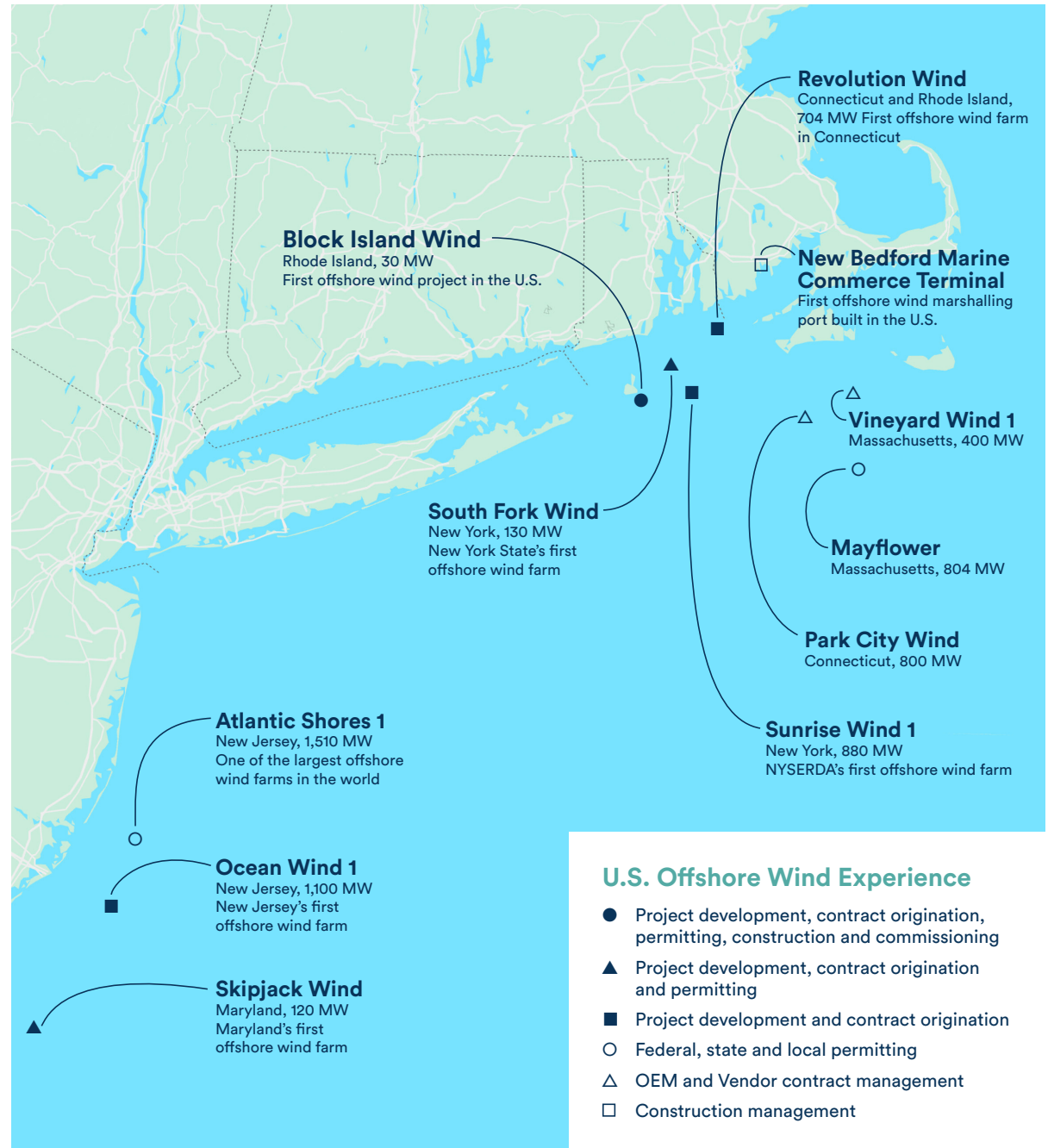
Project and Development

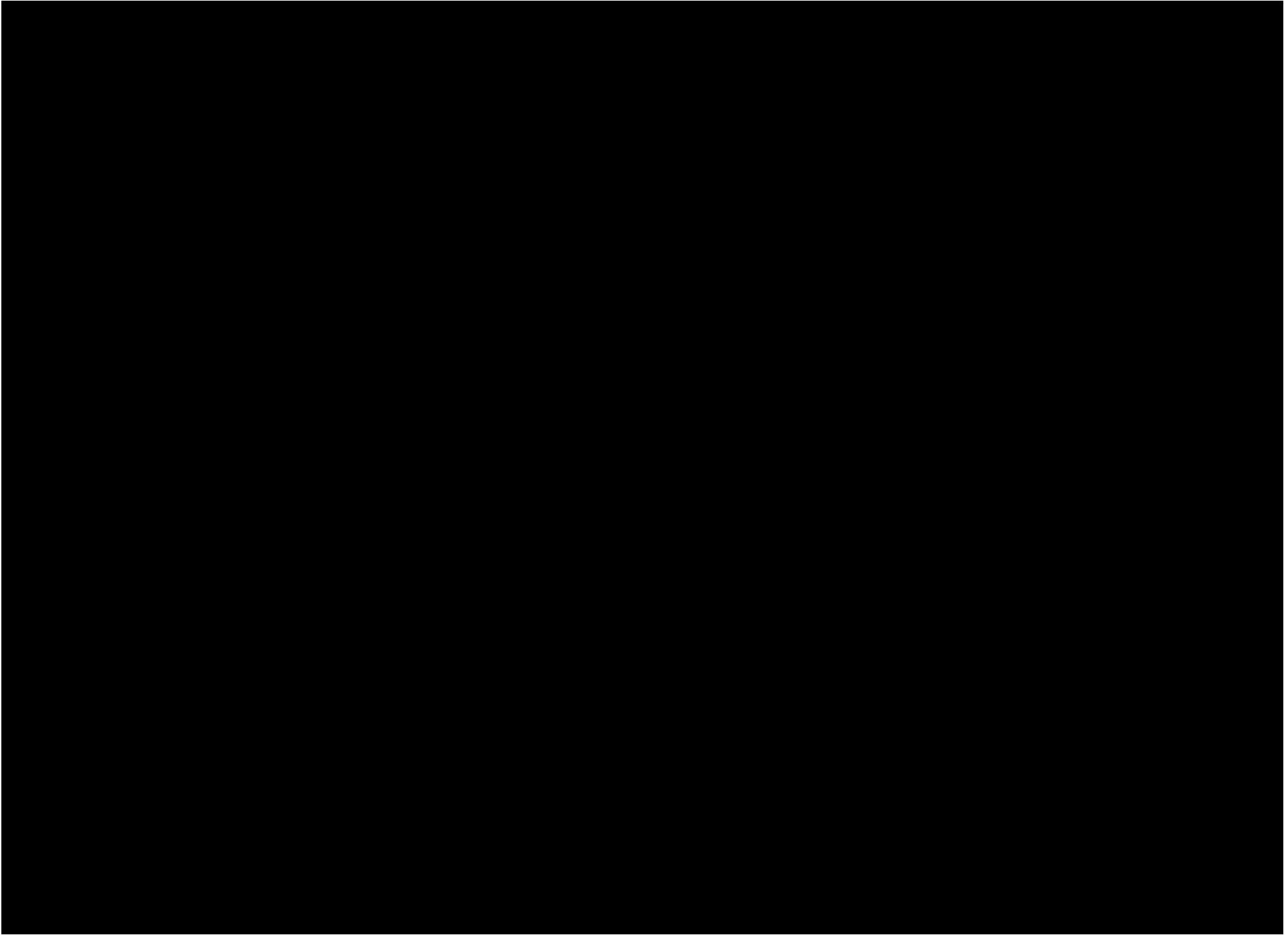
The project and development team oversees all permitting and environmental activities, community engagement and outreach, fisheries relations, external affairs, economic benefits, labor relations and workforce development, public policy, and more.

The Project leadership team based in the U.S. has a successful track record developing, financing, owning, and operating large-scale generation and transmission facilities in diverse environments.

In addition to the key personnel listed, the Project is staffed by a team of passionate, experienced engineers, scientists, permitters, and engagement specialists that bring unique backgrounds and skillsets to ensure Attentive Energy stays true to its values and the Project is designed and developed sustainably, transparently, safely, and cost-effectively. Attentive Energy has access to a diverse set of qualified individuals through the Sponsors. Many of the individuals supporting the Project have roots in the New York area and/or global experience in the energy sector, bringing the technical skills and experience needed to successfully deliver renewable energy into NYC.

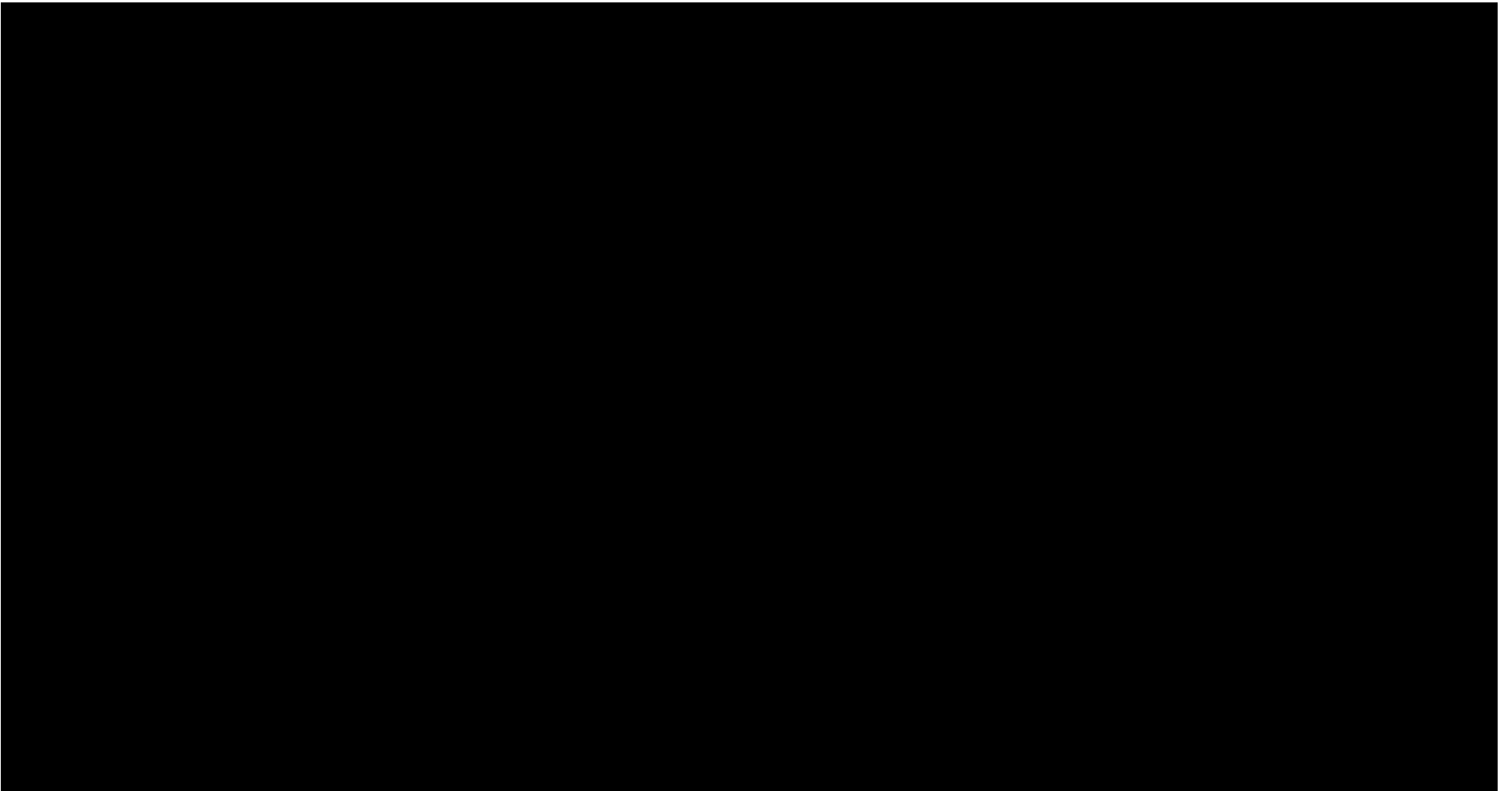
Together, personnel from the Attentive Energy team have served the offshore wind industry within every U.S. East Coast state with a competitive offshore wind process.

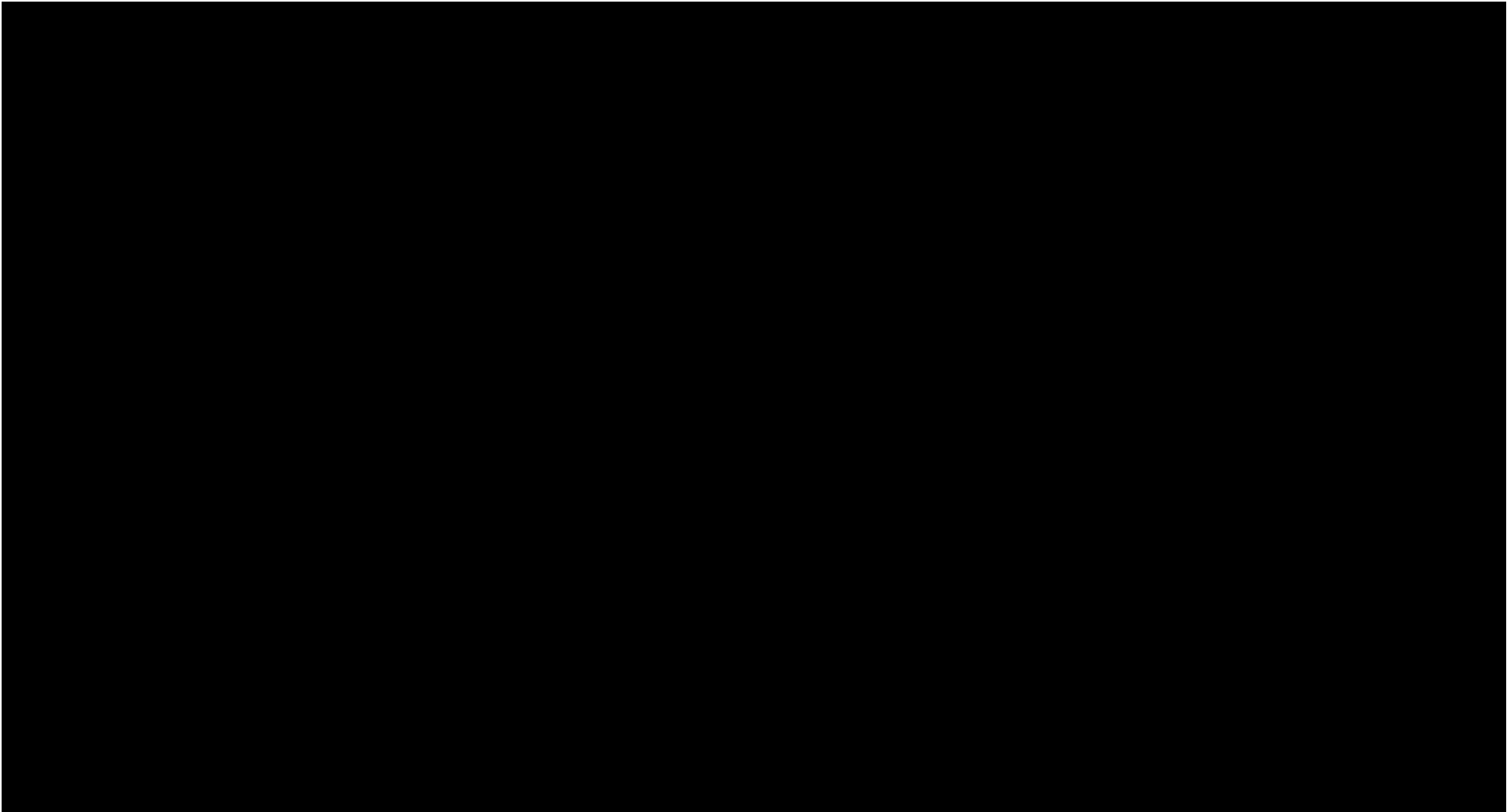


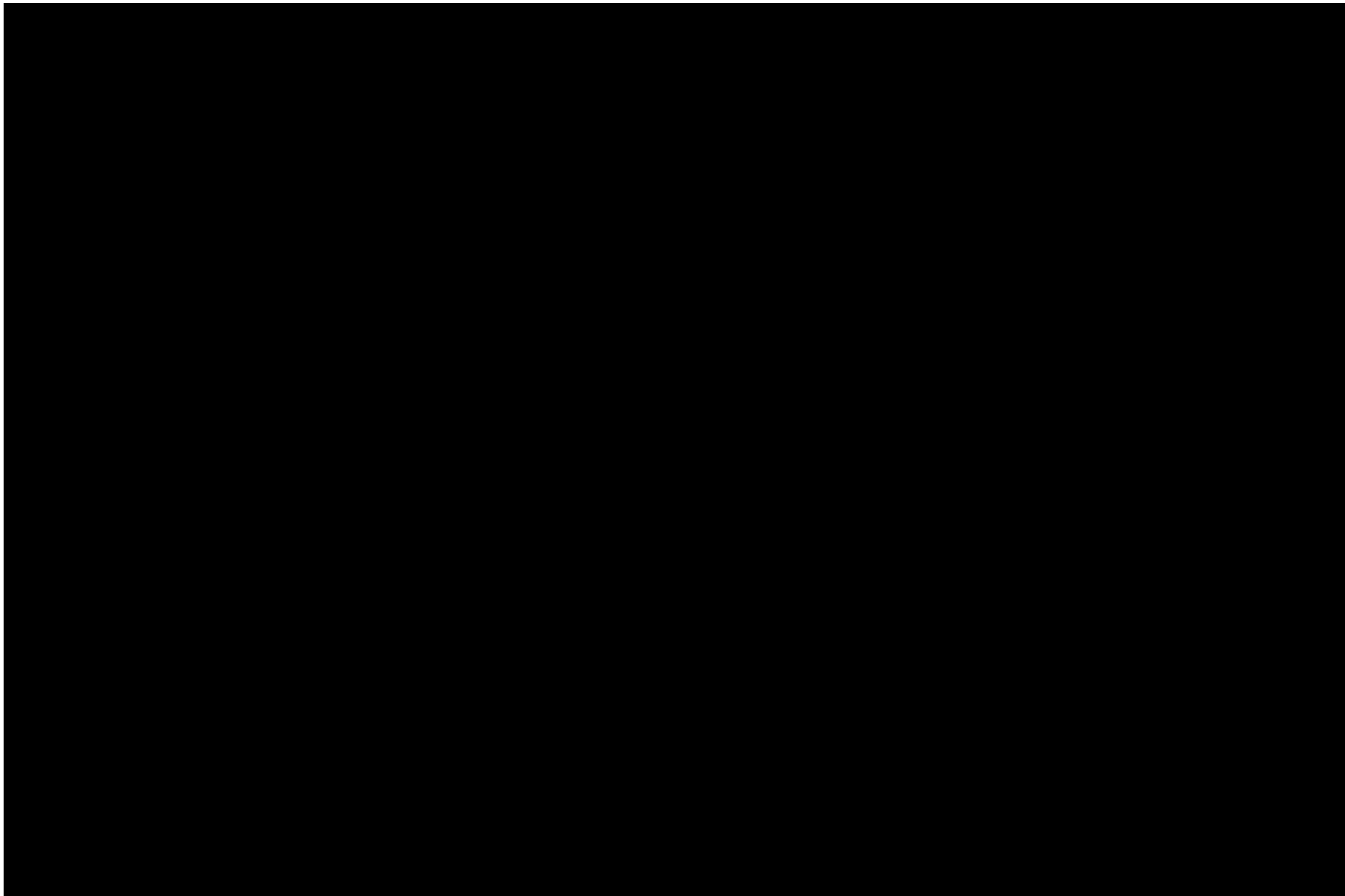


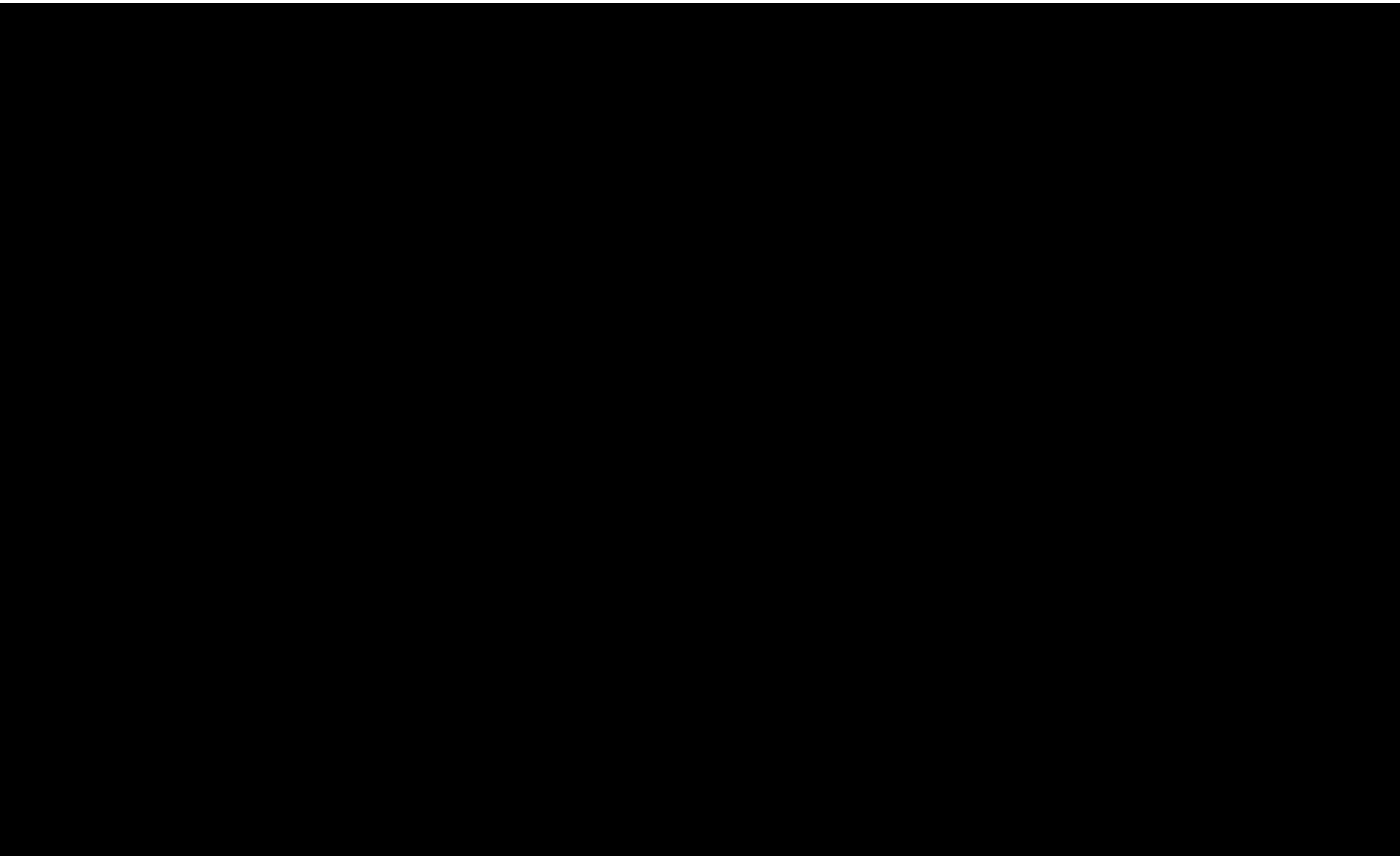
Proposer's Project Team Experience

In addition to the team of internal experts outlined above, Attentive Energy has retained subject matter experts to advance the development, permitting, financing, construction, installation, and operations of the Project. Attentive Energy's strong team of internal experts and external support will ensure successful, on-time delivery of offshore wind power to the communities of New York. Key consultants include:









NYISO Market Participant

Attentive Energy in NYISO

Attentive Energy's participation in NYISO will be guided by the experience of the Sponsors. Rise is a daily NYISO Market Participant, selling energy, capacity, and full range of ancillary services through the NYISO markets from Ravenswood. Rise also manages its exposure to volatility in the NYISO market by entering into physical and financial hedging transactions. Attentive Energy intends to be the NYISO market participant for the Project with support from a third-party energy manager, similar to how Rise manages Ravenswood today.

Attentive Energy was an early offshore wind entrant to the NYISO queue in August 2020, predating the BOEM New York Bight lease auction in Q1 2022. Since then, the Attentive Energy team has been in regular contact with NYISO staff throughout the stages of pre-study that are required to enter the Class Year. Attentive Energy anticipates leveraging these relationships to successfully develop and interconnect the Project with the lowest cost possible.

Sponsor Experience with NYISO Markets

Rise has years of experience operating in the NYISO markets and is actively engaged with the NYISO staff both directly and through the various stakeholder working groups.

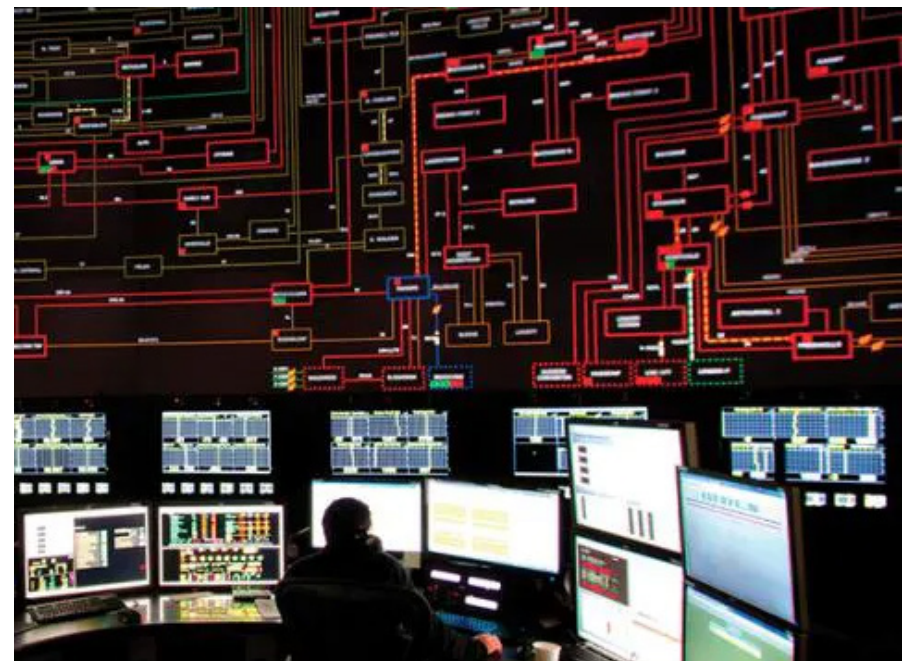
Rise's daily participation in the wholesale energy markets provides the Attentive Energy team with unmatched know-how of managing and operating a gigawatt-scale power plant in Zone J to customers' expectations.

Over the last two decades, Rise has navigated the ongoing evolution of the NYISO market tariff and maintains a comprehensive understanding of the various products, markets and proposed changes to market rules that may occur as NYISO grid transitions to renewables. Currently, Rise uses a third-party vendor to manage day-ahead, real-time and other market activities in NYISO at the direction of the Rise Commercial team. These activities include fuel procurement and certain NYISO market hedging activities

such as virtual market bidding and congestion hedging via the NYISO TCC auctions.

The Rise Commercial team's experience provides Attentive Energy with the ability to not only successfully operate the Project in the NYISO market, but to anticipate and adapt to the changes that are inevitable with the grid's transformation under the Climate Act. With respect to NYISO OATT, Services Tariff, as well as applicable State and Federal regulatory activities, the Proposer has been, and continues to be, very active in NYISO stakeholder processes as well as all relevant State and Federal regulatory proceedings.

Finally, Rise has a keen understanding for the critical need for capacity in NYISO Zone J. In addition to independent analysis the company continues to perform on the topic, Rise also has noteworthy experience managing battery storage projects through the NYSPSC CPCN approval process and participating in the NYISO 2019 interconnection Class Year. Rise's knowledge of NYISO markets and its ability to adapt to market changes will help ensure that the Project maximizes its value to the grid and for New York ratepayers.



NYISO operator at work on the real-time commitment desk

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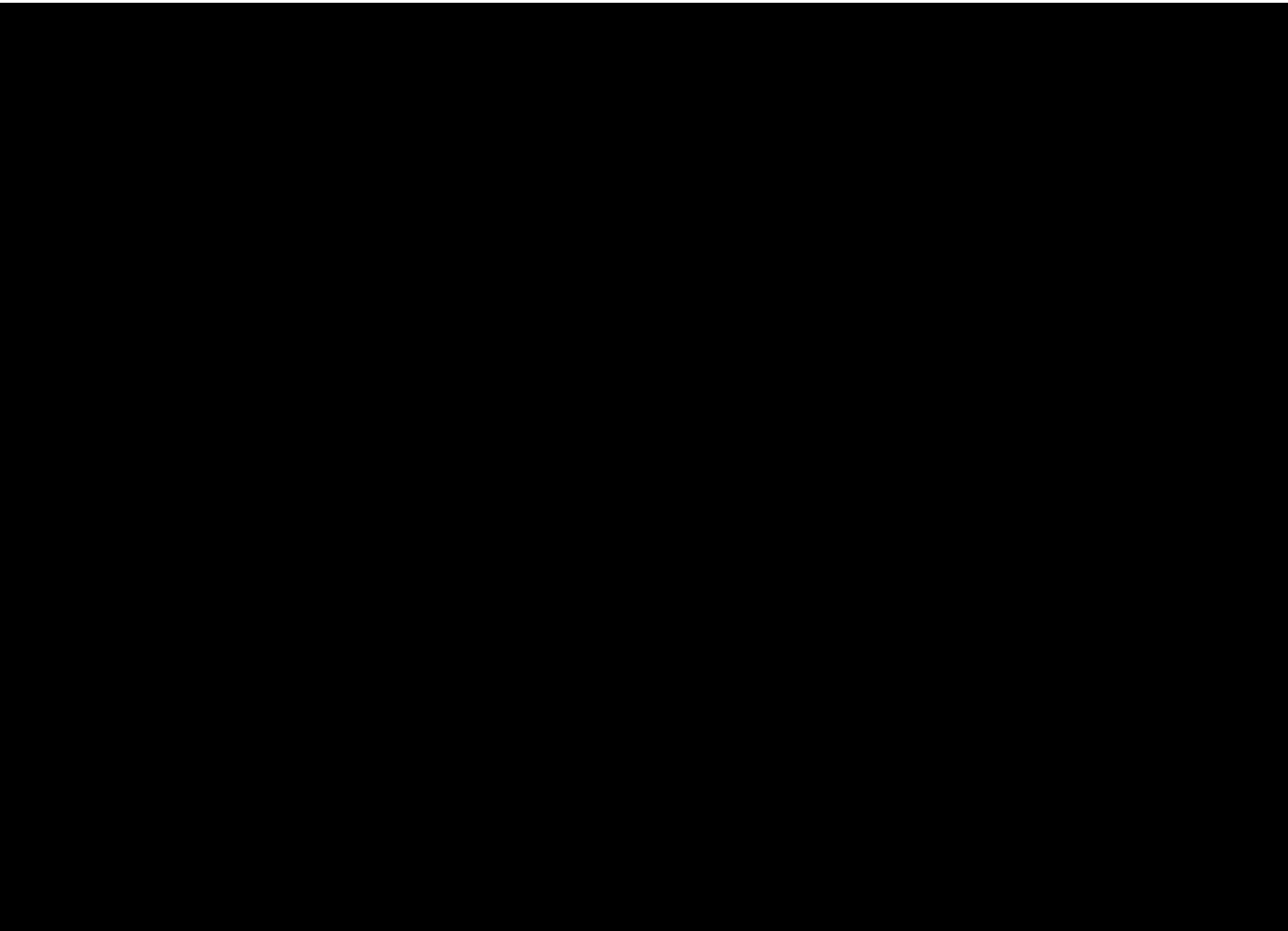
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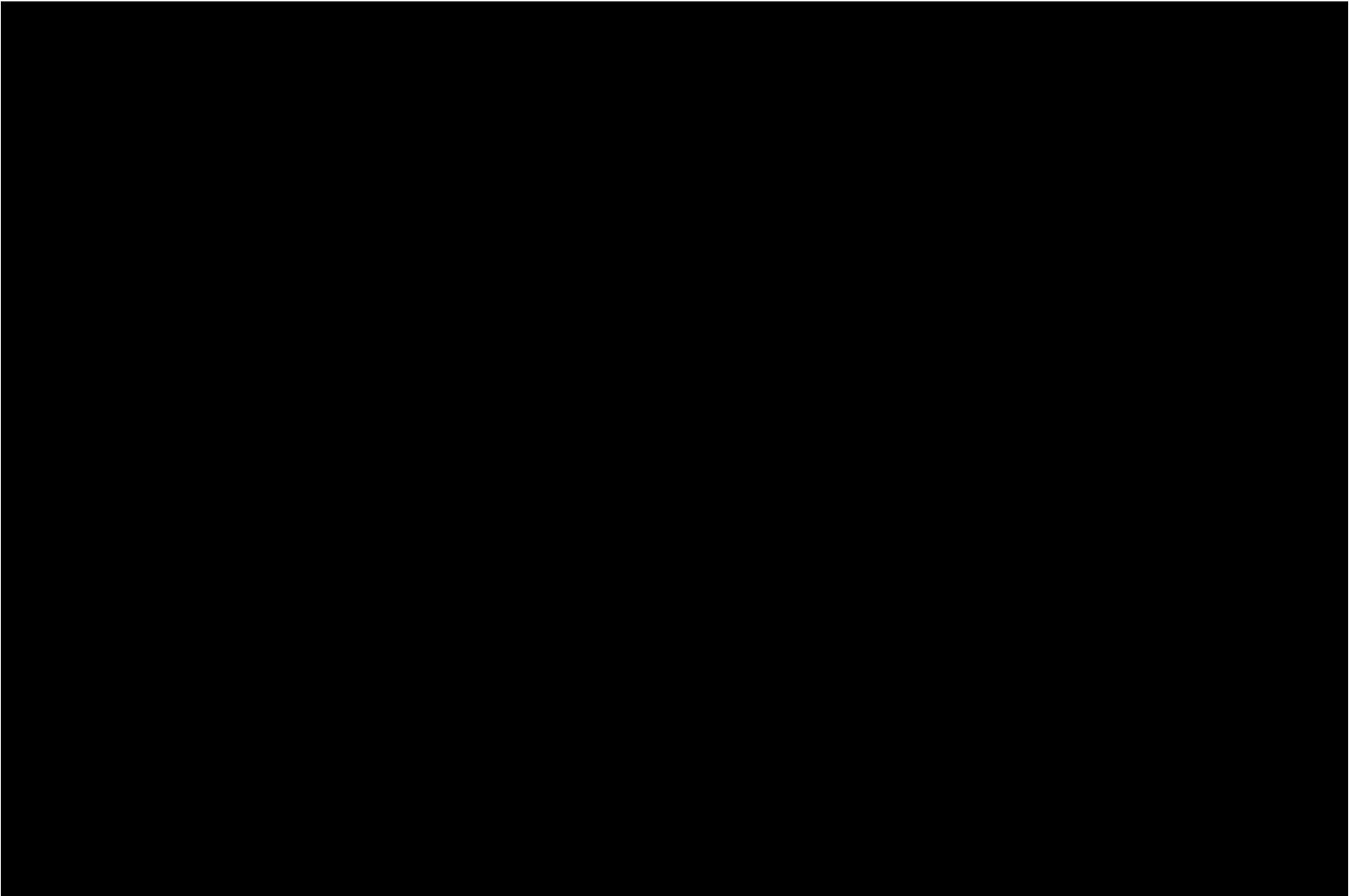
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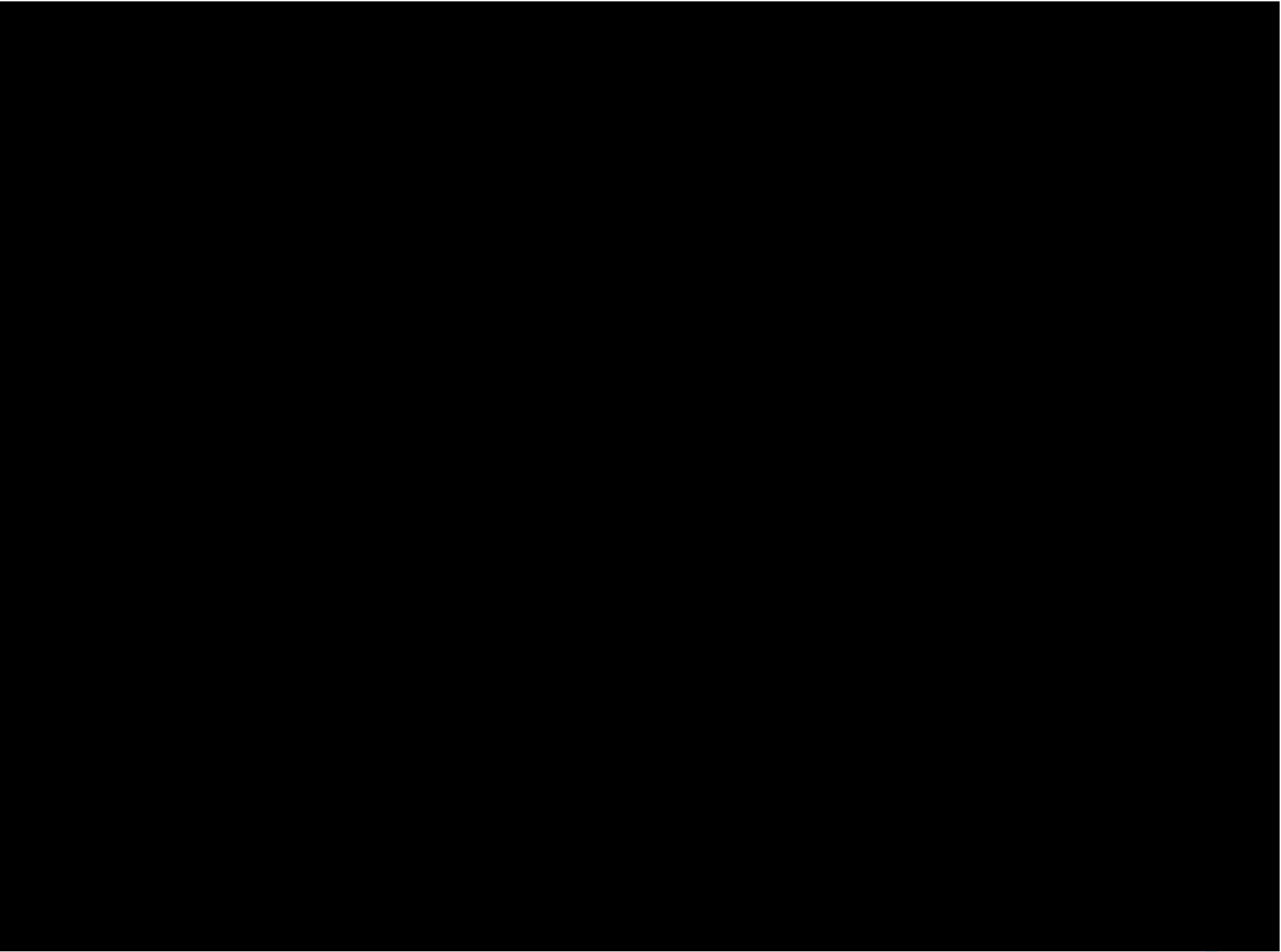
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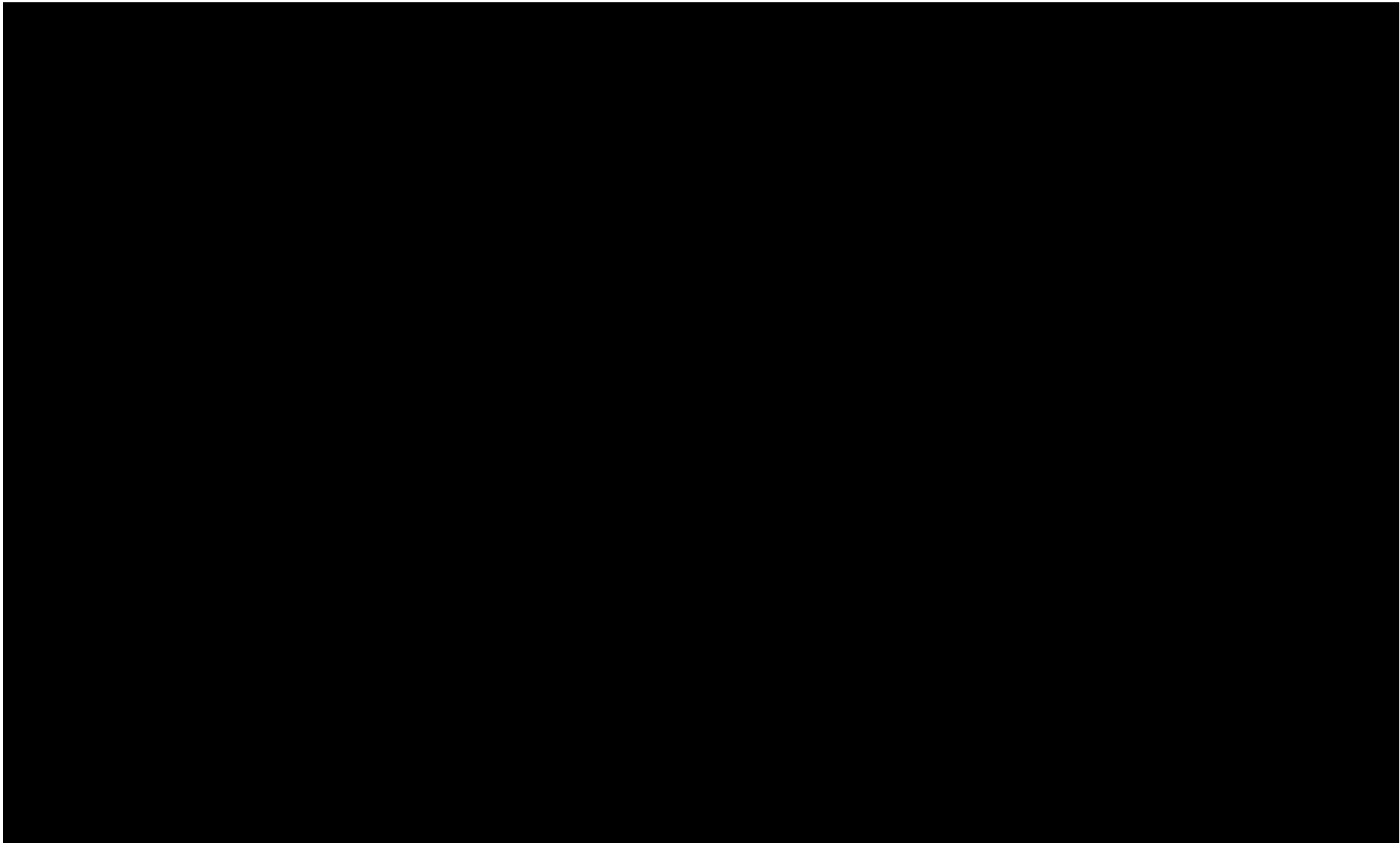
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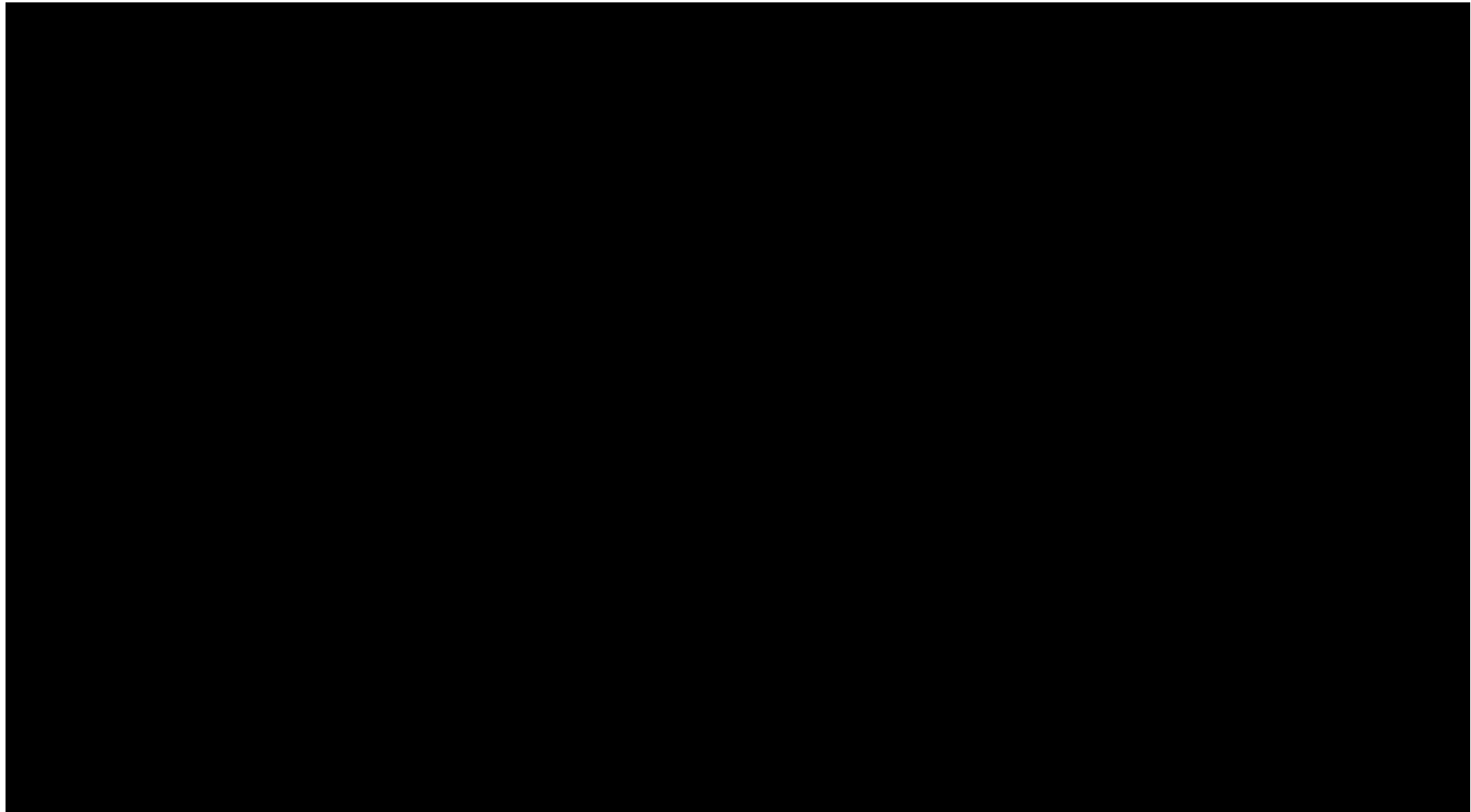
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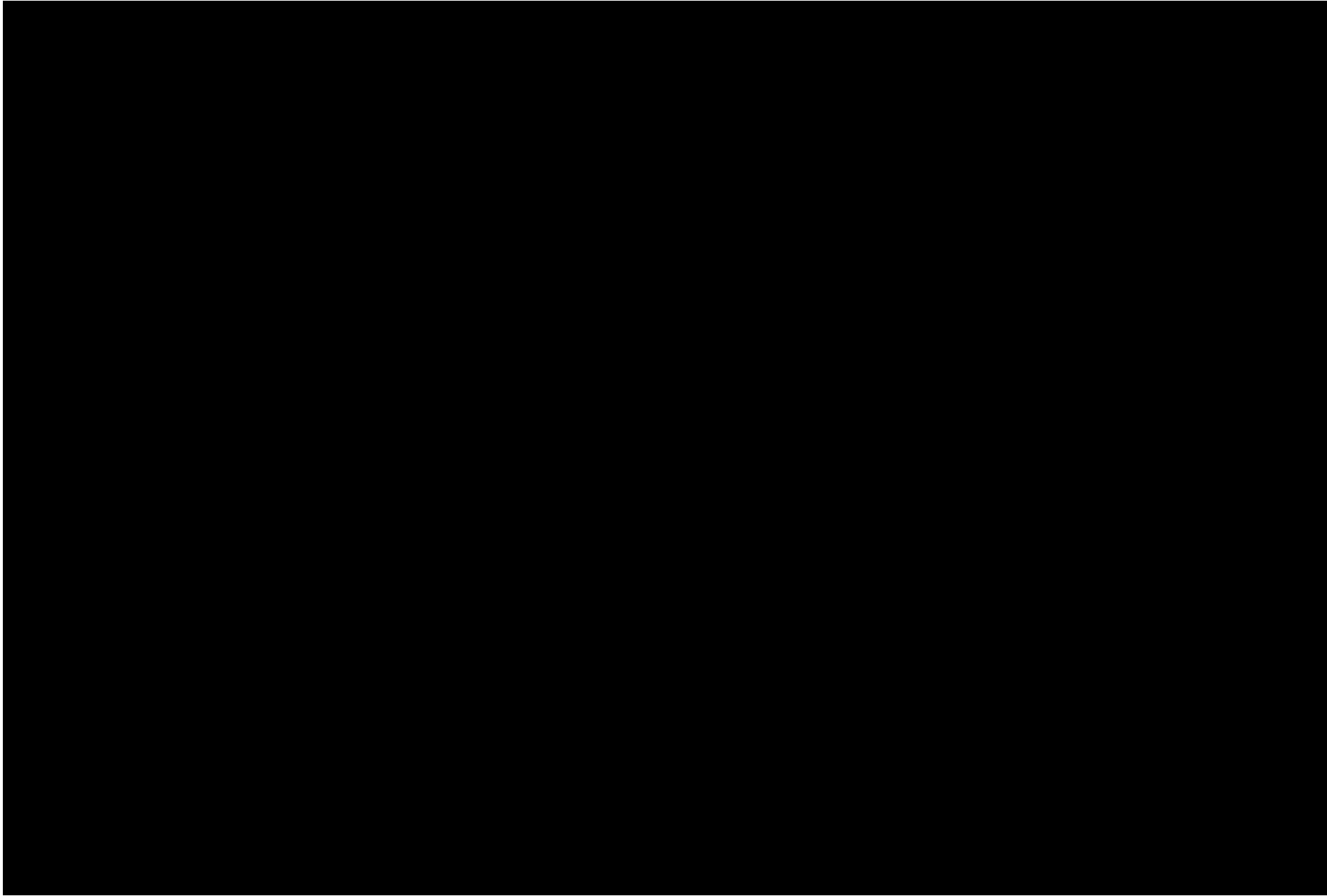


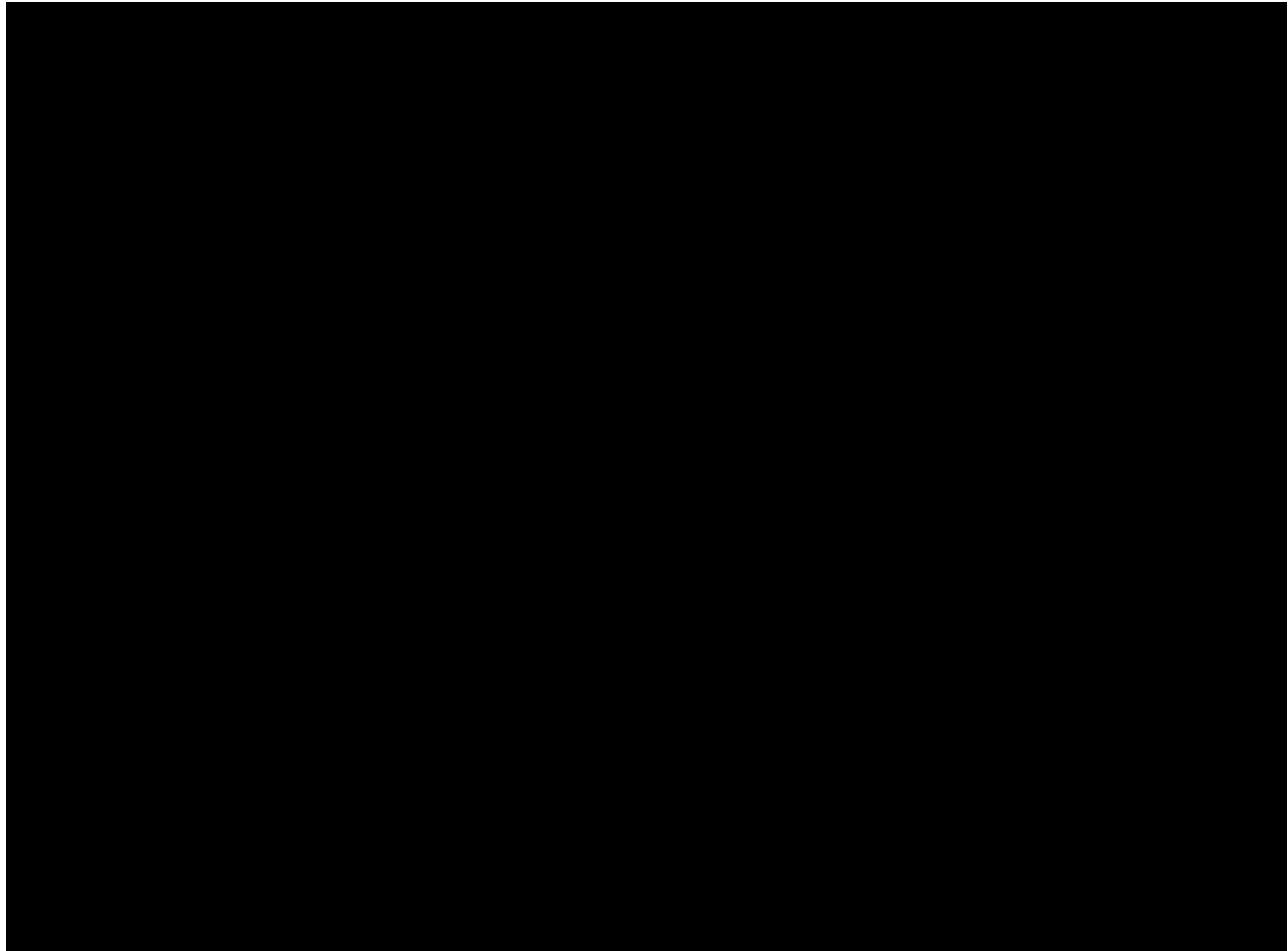


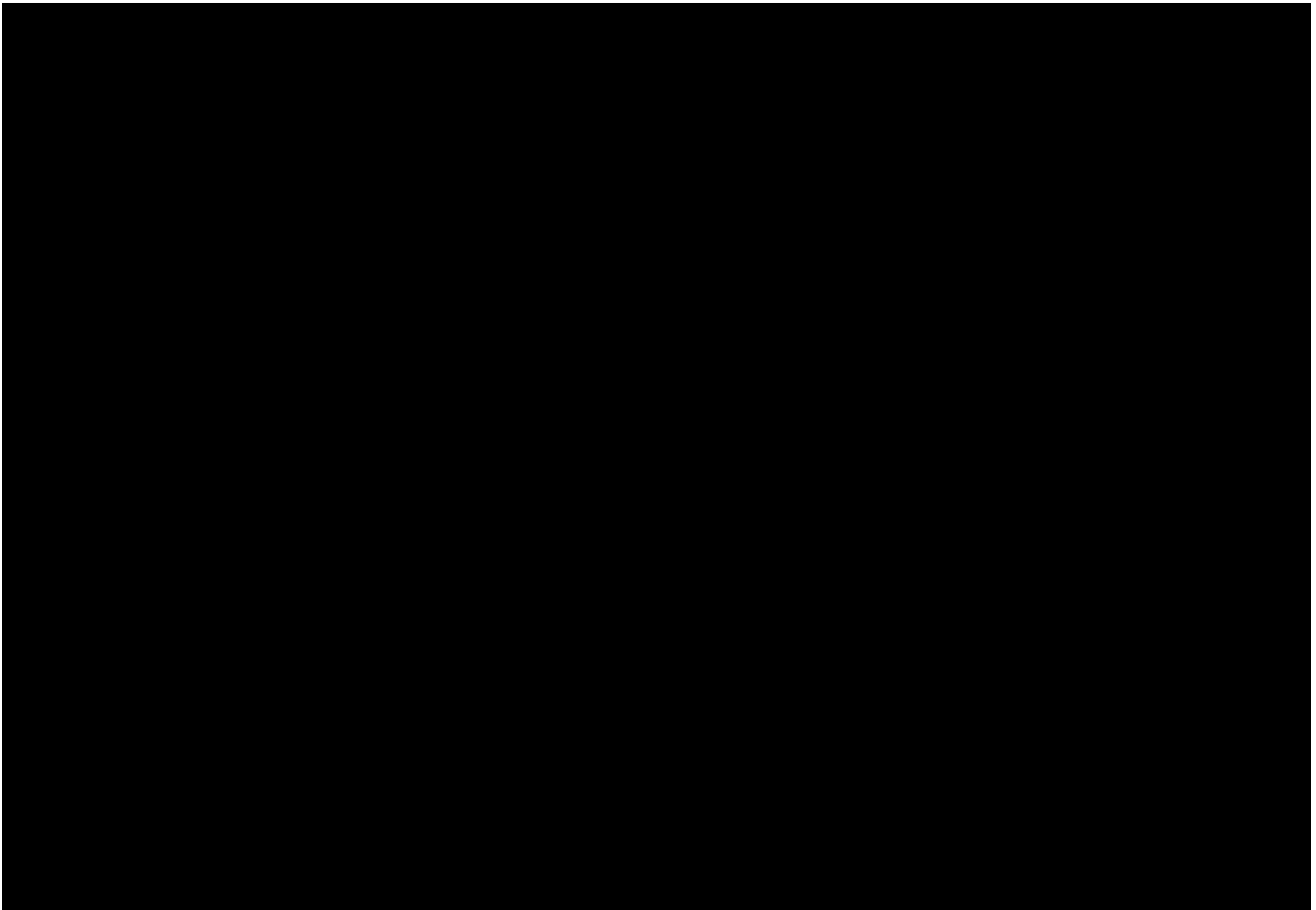


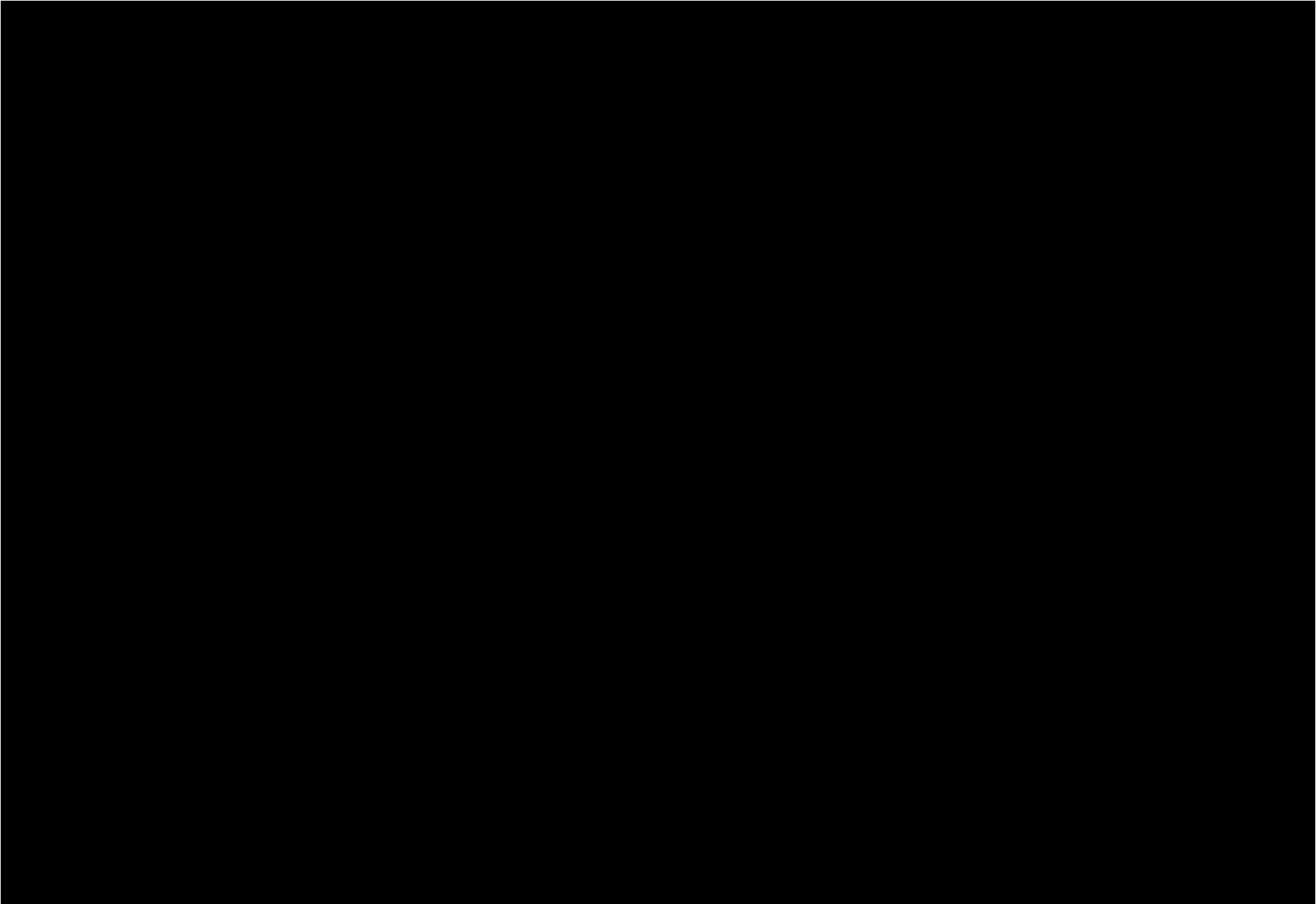


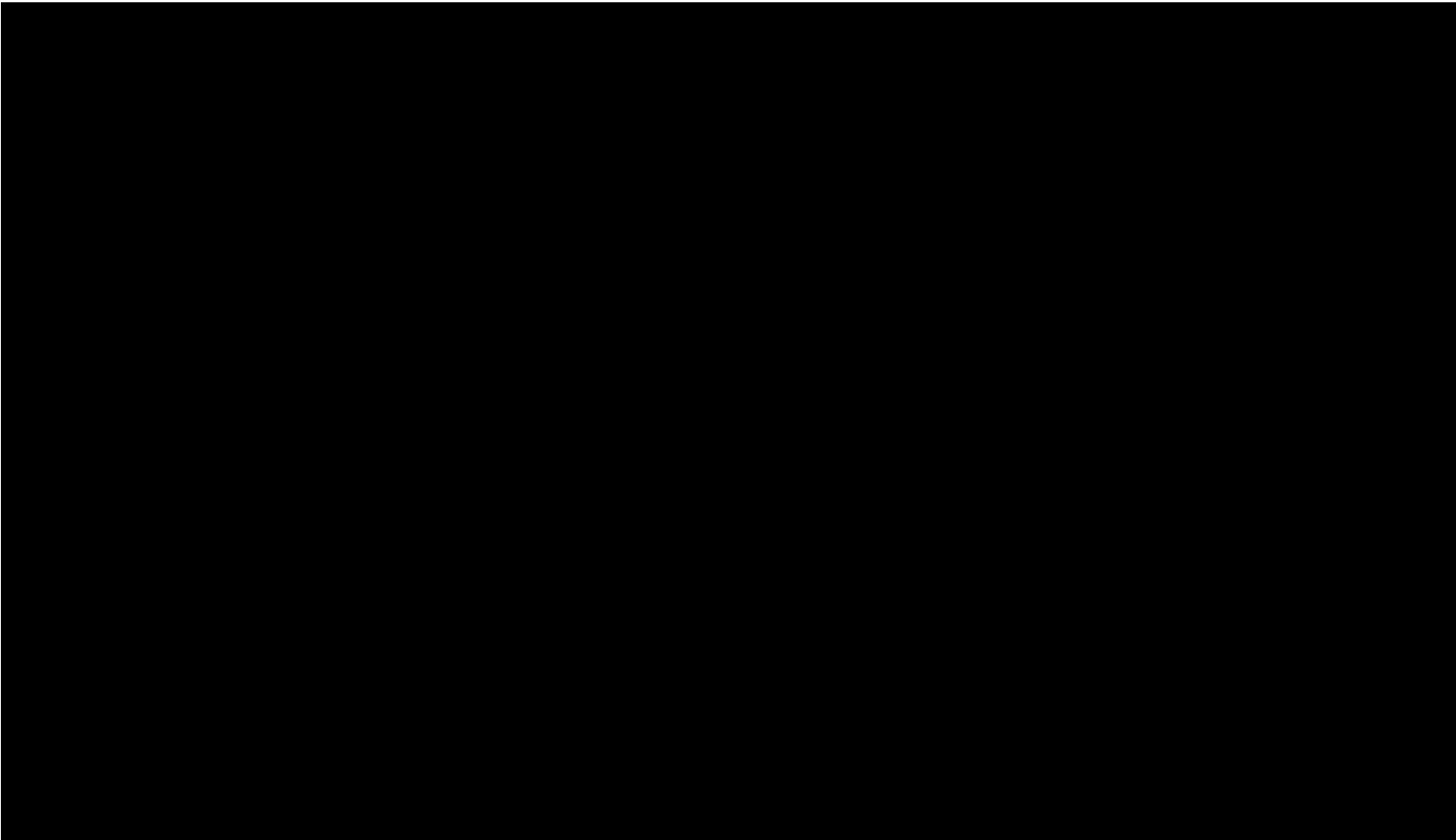


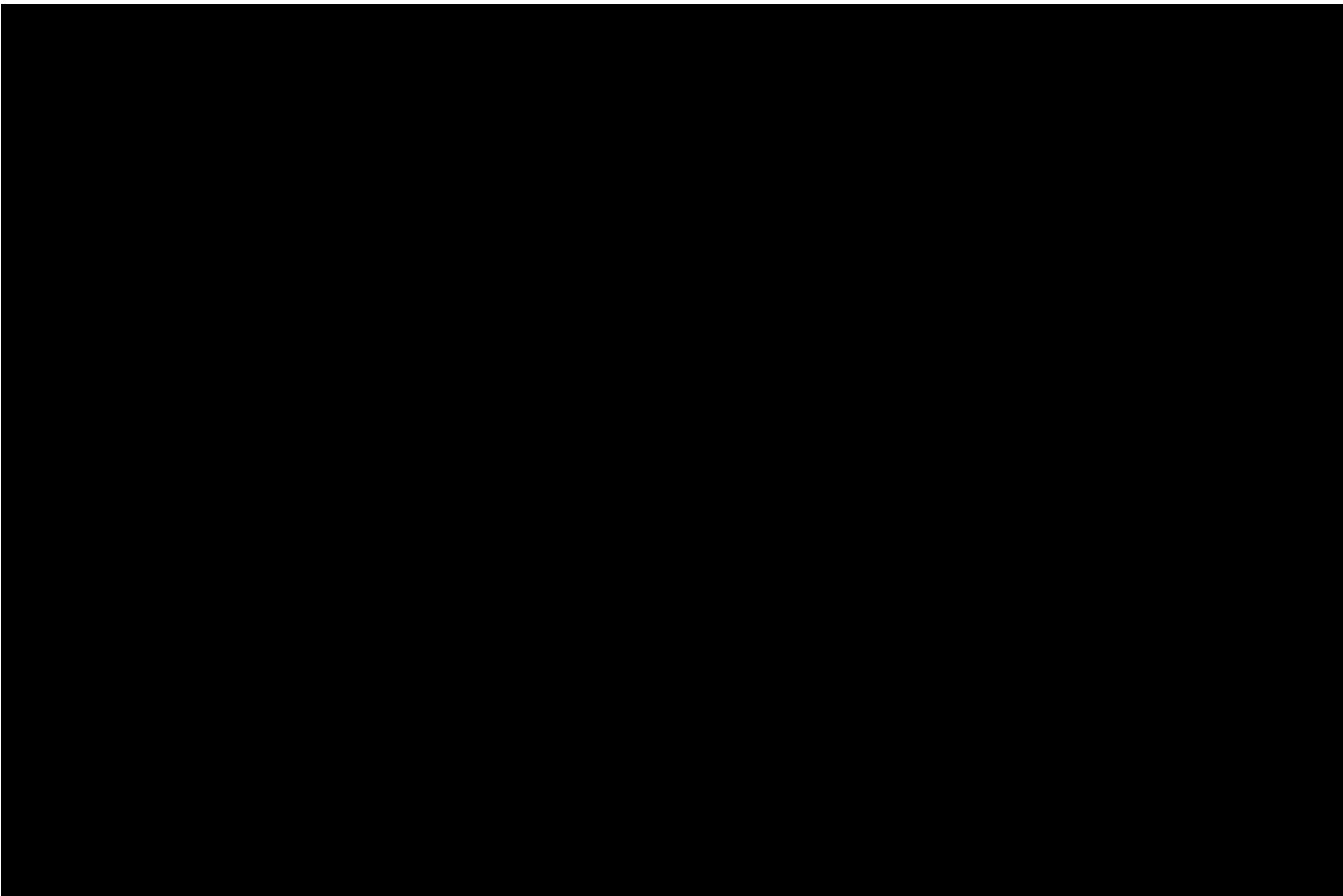


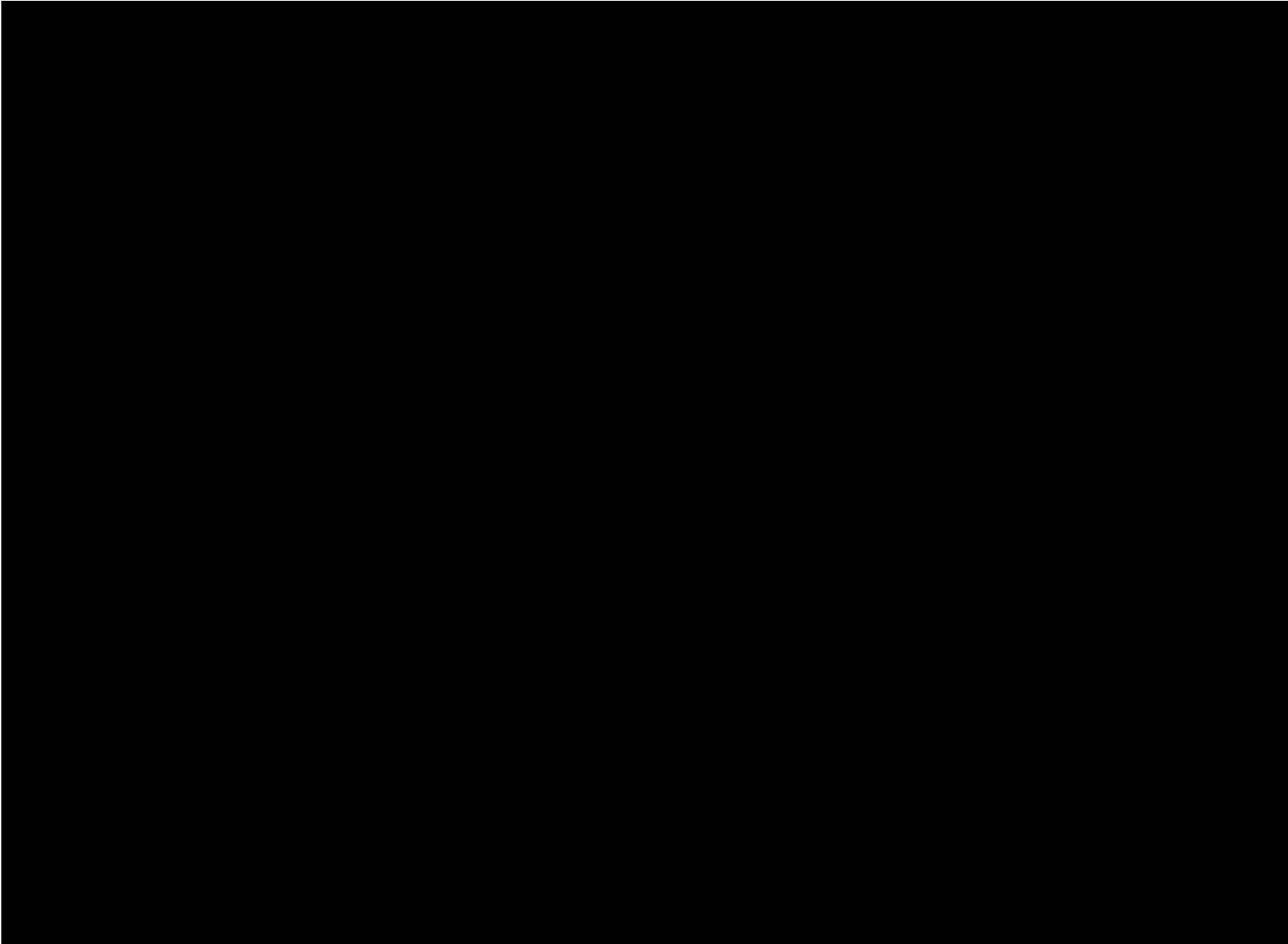


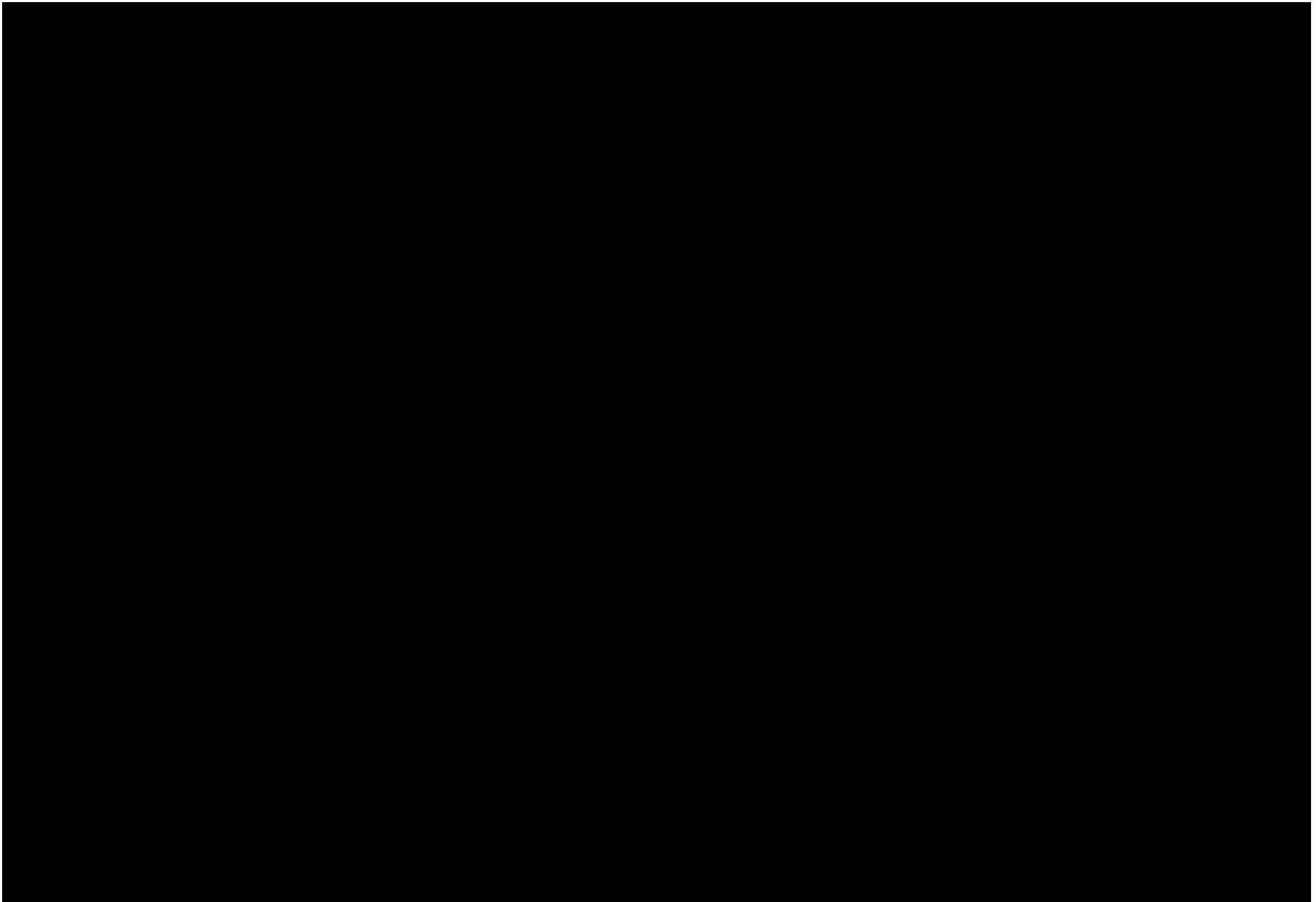


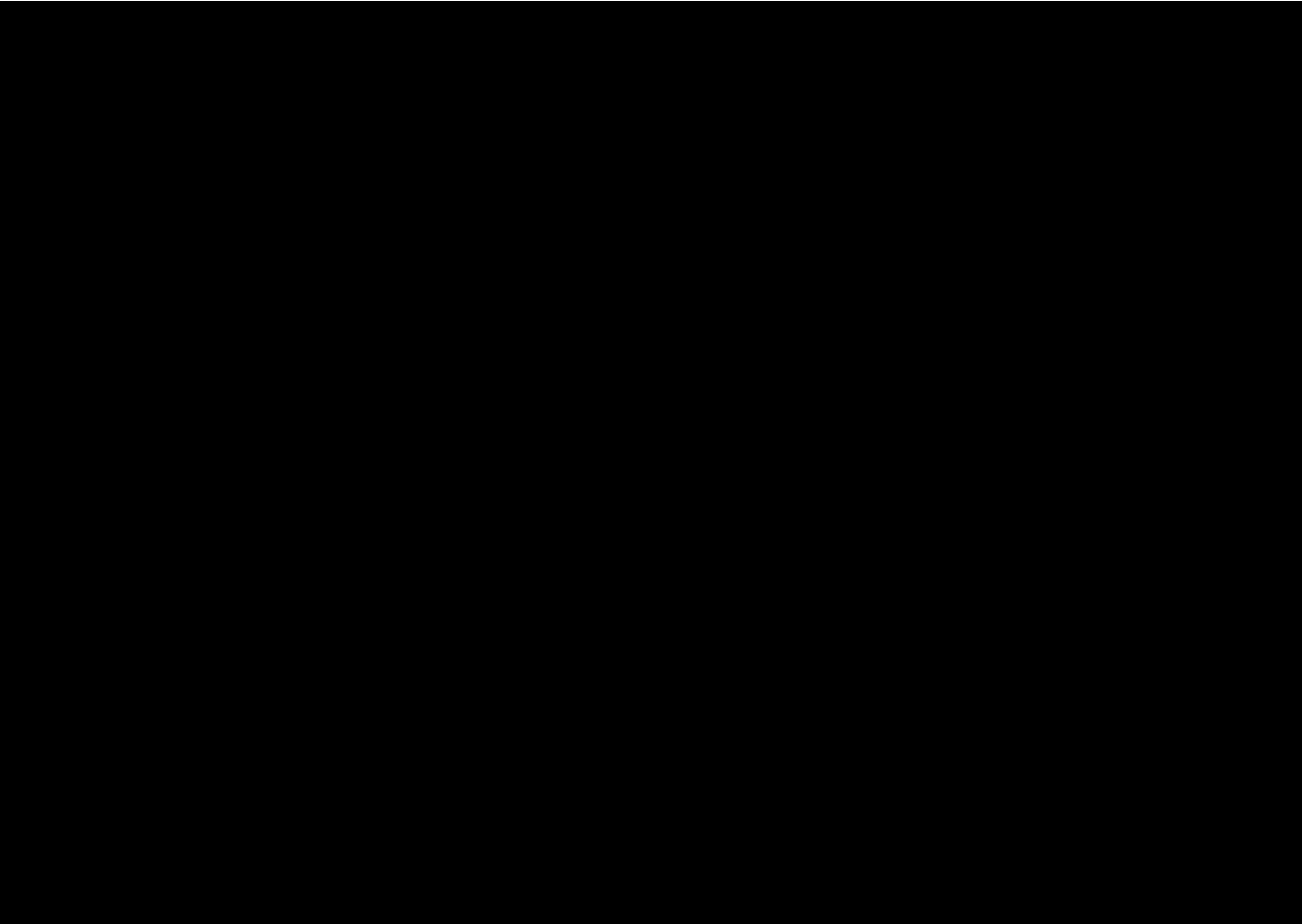


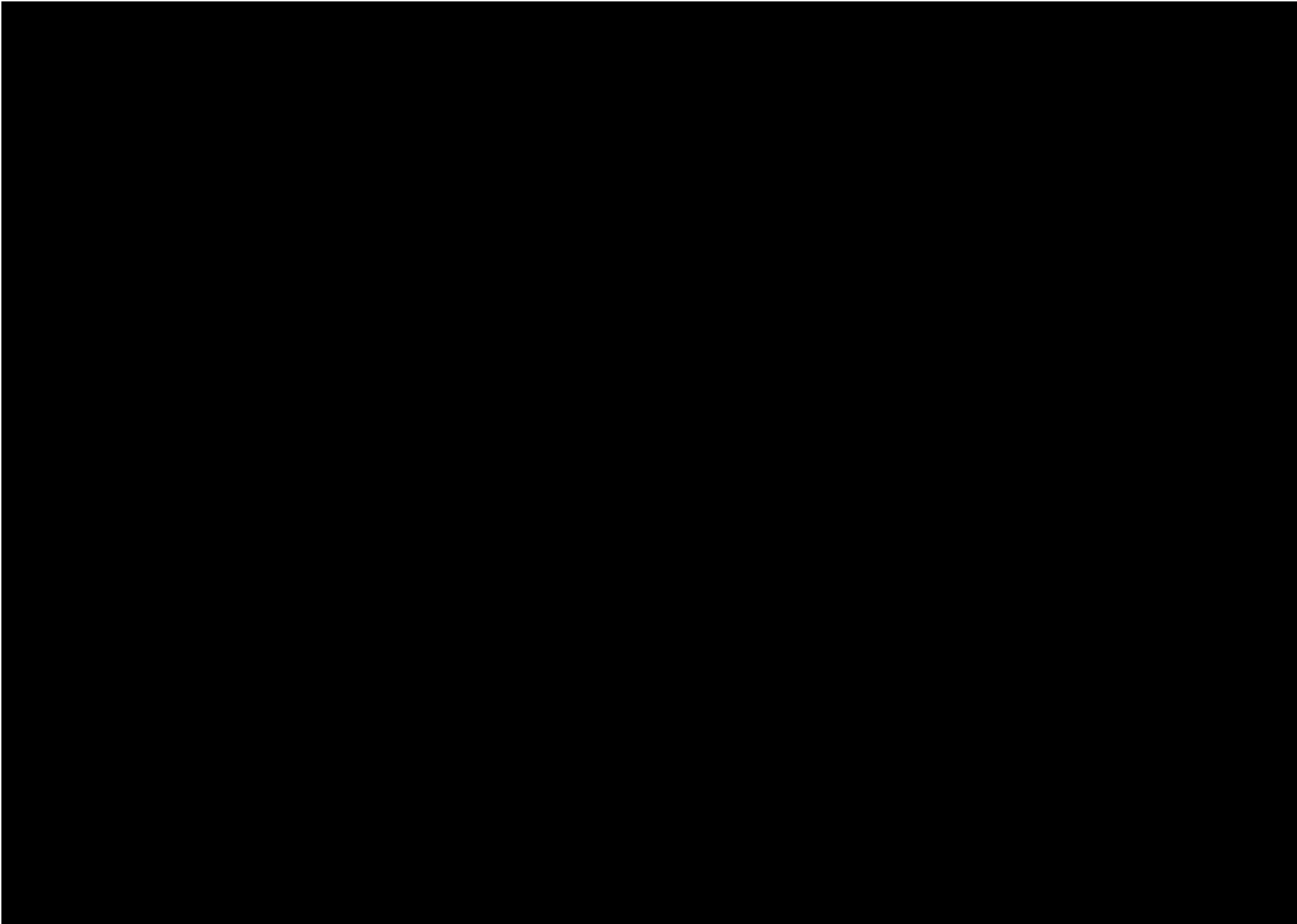












References

In 2021, Total became TotalEnergies: A new name for a new ambition to become a major player in the energy transition, engaged towards getting to net zero by 2050, together with society. Additional information can be found in TotalEnergies' Sustainability and Climate Report: https://totalenergies.com/sites/g/files/nytnzq121/files/documents/2022-05/Sustainability_Climate_2022_Progress_Report_accessible_version_EN.pdf (Retrieved on 12/28/2022)

<https://www.westoforkney.com/news/west-orkney-windfarm-outlines-supply-chain-commitments> (Retrieved on 12/28/2022)



SECTION 4

PROJECT DESCRIPTION AND SITE CONTROL



Section 4 Table of Acronyms

AC	Alternating Current
AIS	Automatic Identification System
BOEM	Bureau of Ocean Energy Management
Climate Act	Climate Leadership and Community Protection Act
COP	Construction and Operations Plan
CECPN	Certificate of Environmental Compatibility and Public Need
[REDACTED]	[REDACTED]
FLIDAR	Floating Light Detection and Ranging
FNP	Federal Navigation Project
ft	Feet
G&G	Geophysical and Geotechnical
HVDC	High Voltage Direct Current
kV	Kilovolt
Lease Area	Lease Area OCS-A 0538
MEC	Munitions and Explosives of Concern
mi	Miles
NJ-DE PARS	Port Access Route Study for the Seacoast of New Jersey Including Offshore Approaches to Delaware Bay, Delaware
NJDEP	New Jersey Department of Environmental Protection
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NYISO	New York Independent System Operator, Inc.
NYSDEC	New York State Department of Environmental Conservation

NYSOGS	New York State Office of General Services
OCS	Outer Continental Shelf
OEM	Original Equipment Manufacturer
OSS	Offshore Substation
POI	Point of Interconnection
PV	Plan View
RODA	Responsible Offshore Development Alliance
ROW	Right-of-Way
RWSC	Regional Wildlife Science Collaborative
SAP	Site Assessment Plan
SPI	Sediment Profile Imagery
SRIS	System Reliability Impact Study
USACE	U.S. Army Corps of Engineers
USCG	U.S. Coast Guard
USGS	United States Geological Survey
UXO	Unexploded Ordinance
WTG	Wind Turbine Generator



4. PROJECT DESCRIPTION AND SITE CONTROL

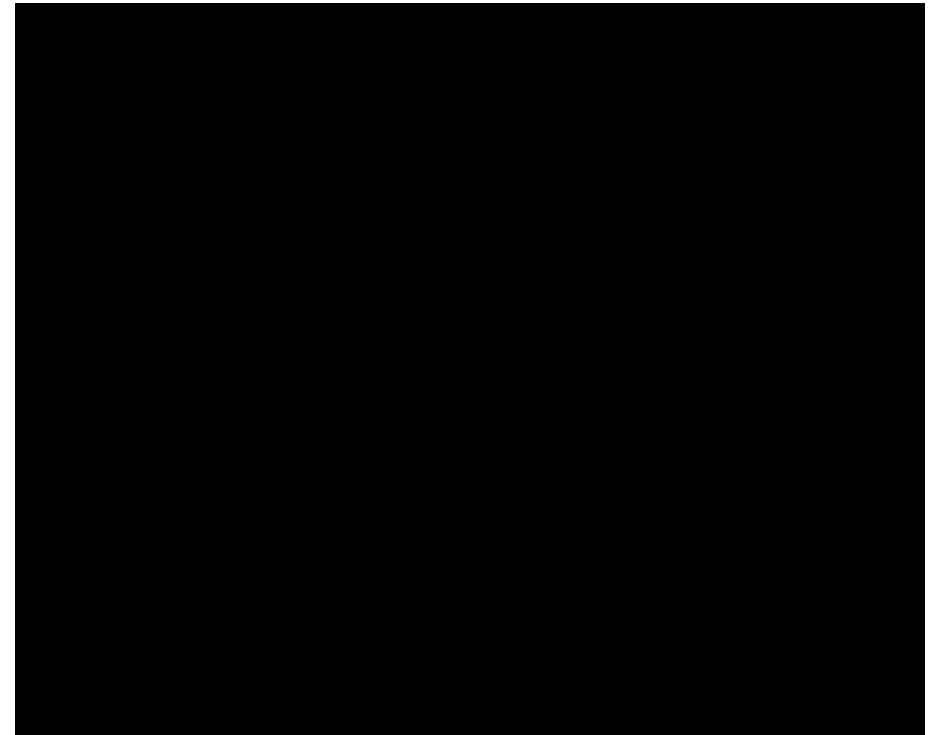
Project Overview

Attentive Energy One is a different kind of offshore wind project. Attentive Energy and its Sponsors have invested years in developing plans for a project that is designed to best serve New York. This design includes a commitment to cause the retirement of a major fossil generating unit, a just transition of the union workforce at Ravenswood, a carefully planned export cable route that avoids controversy and a robust plan for the responsible development of its offshore wind Lease Area.

The offshore components of the Project will consist of a 1,404 MW nameplate Offshore Wind Generation Facility located in BOEM Lease OCS-A 0538, an IAC collection system, and a Meshed Ready HVDC Transmission Facility consisting of the HVDC OSS collection station, Meshed Ready facilities, and export cable system.

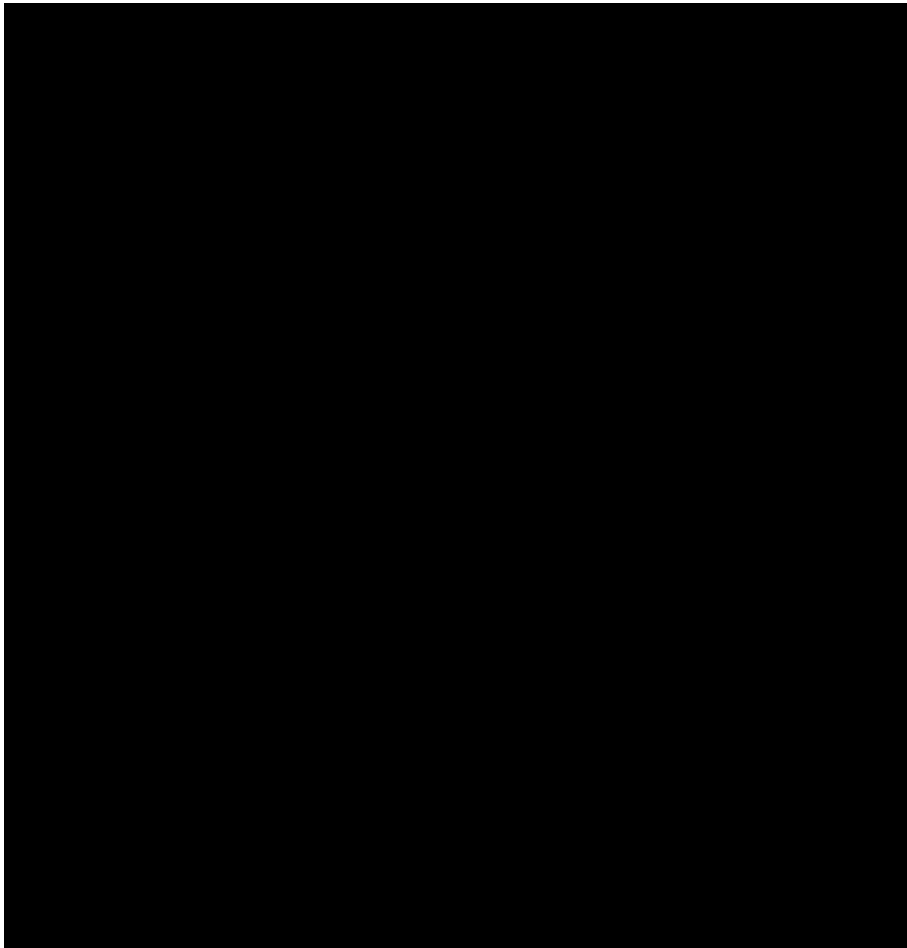
The export cable system originates in the Lease Area and transitions to shore at Ravenswood, which contains the entirety of the Project's onshore footprint. Once onshore, the cables will terminate at the HVDC converter station and the AC Substation, both of which will be located at Ravenswood in a new, multi-level Converter Building. The Project will interconnect, to the Rainey 345 kV and Vernon 138 kV Substations. Table 4-1 provides an overview of the major components in the Project's Site Plan.

Site plan maps that identify the location of the proposed Offshore Wind Generation Facility, collection facilities, OSS and Meshed Ready facilities, offshore and onshore route of the generator lead line to the POI, converter station(s), and the assumed ROW width are provided in this Section, along with descriptions of each of the Project facilities. The maps also illustrate the location of all onshore and offshore equipment and facilities and clearly delineate the perimeter of the Project Area and the indicative WTG array. The following Subsections provide an overview of the Offshore Wind Generation Facility, the Meshed Ready HVDC Transmission Facility, and overall Project design that will facilitate the delivery of clean energy to New York State.



Lease Area

Attentive Energy is the leaseholder of BOEM Lease Area OCS-A 0538, which is an 84,332 acre area located approximately 54 mi south of Jones Beach, New York, and approximately 42 mi east of Barnegat Bay, New Jersey. The No Surface Occupancy area along the southern perimeter of the Lease Area totals 4,894 acres, leaving 79,438 developable acres. To the north, the Lease Area is bordered by the USCG proposed Hudson Canyon to Ambrose Southeastern Fairway, and to the south, it is bordered by a 2.44 nm No Surface Occupancy zone created by BOEM.



The Lease Area is one of the six Federal offshore wind leases that were offered in the 2022 New York Bight auction administered by the Department of the Interior's BOEM. BOEM named Attentive Energy as the provisional winner of the Lease Area on February 25, 2022. The lease is effective as of May 1, 2022.



Valid Lease or Option

The fully executed BOEM lease agreement for the Lease Area is included as Attachment 4-A. The lease has been entered into by and between the United States of America, the lessor, acting through BOEM, its authorized officer, and Attentive Energy LLC, the lessee.

Attentive Energy's Lease Area OCS-A 0538 offers beneficial characteristics within the New York Bight thanks to its high annual wind performance, low external wake losses, proximity to onshore interconnection points, and low-risk seabed profile.

Offshore Development the Right Way: Sharing Ocean Resources

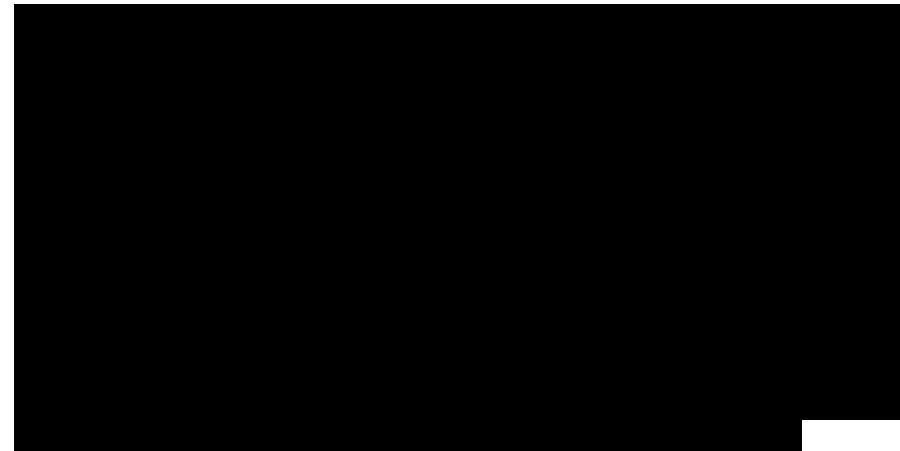
Attentive Energy acknowledges that, like all offshore wind areas, there are diverse uses of the Lease Area and surrounding waters and commits to responsible coexistence with other ocean users. As such, Attentive Energy places a specific focus on balancing responsible offshore wind development with important fishery resources and uses that may be present in the Project Area.



Attentive Energy will maximize production from the Offshore Wind Generation Facility in order to support New York in meeting the goals of the Climate Act while respecting maritime users and ocean resources.

Since becoming a leaseholder, interactions have shifted to more targeted discussions with known Lease Area co-users, including commercial and recreational fishing communities, with the goal of understanding potential interactions between legacy uses of the Lease Area and the Project. As always, Attentive Energy's engagement with these important stakeholders has been based on transparency, collaboration, and safety offshore.

In furtherance of its commitment to responsible offshore wind development, Attentive Energy has prioritized industry collaboration by joining regional groups such as ROSA and RWSC. Involvement in these groups allows Attentive Energy to stay informed on stock data collection and management, as well as listen to, absorb, and react to industry feedback on offshore wind interactions with fisheries, specifically what the industry views as working well and suggestions on what could be done better. Attentive Energy used this information not only to refine the Project footprint but also to prioritize research initiatives that will be implemented in association with the Project.

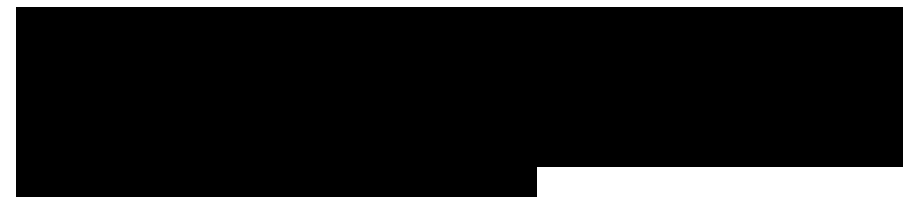
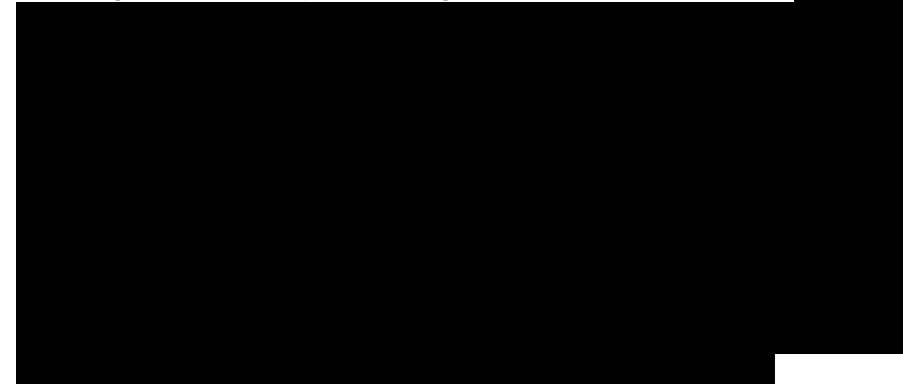


Attentive Energy has taken a proactive approach of working collaboratively with wind turbine OEMs and stakeholders to utilize leading edge turbine

technologies capable of producing at some of the highest energy levels relative to the area that they occupy. In this way, the Project would simultaneously produce maximum possible power while minimally impacting seabed and ocean surface area used by legacy commercial and recreational interests.



To inform this process, Attentive Energy is implementing several measures to facilitate two-way communication between the fishing community, mariners, and the Project. In October 2022, Attentive Energy updated its *Fishing Community and Mariner Offshore Wind Survey* to seek information specific to vessel activity in and around the Lease Area. To date, the survey has provided important feedback on fishing vessel transit tendencies, including direction and speed, through and around the Lease Area.

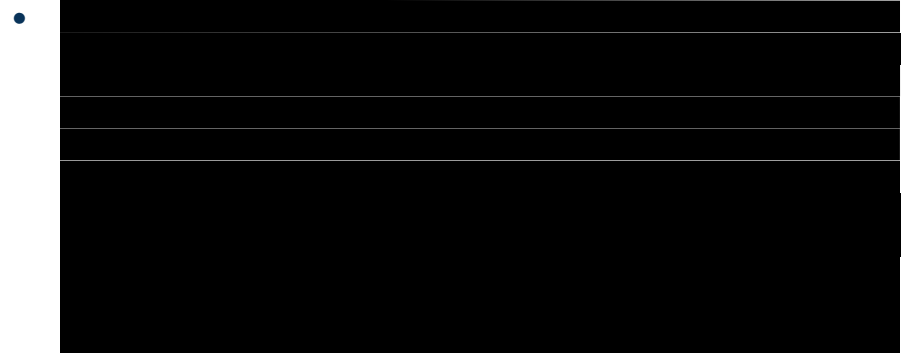
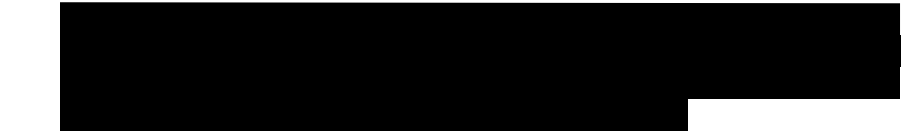


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Site Plan

Offshore Wind Generation Facility

Figure 4-2 shows an indicative map of the Offshore Wind Generation Facility, including WTGs, the OSS, and other associated offshore infrastructure² within the Lease Area that is associated with the Project.



[Redacted]

Furthermore, in alignment with its goal of protecting and restoring New York State’s biodiversity and minimizing environmental impacts from the Project, Attentive Energy is responsive to recommendations on how best to design and construct Project facilities. Attentive Energy will continue to optimize Project layout as it advances WTG design, wind and metocean data analysis, and discussions with stakeholders.


² The Project is designed to be Meshed Ready and capable of future interconnection with other Offshore Wind Generation Facilities in New York in the event that the NYPSC directs the implementation of a Meshed Network. Detailed narrative about the Project’s Meshed Ready facilities is provided in Section 8.





Offshore Generator Lead Line

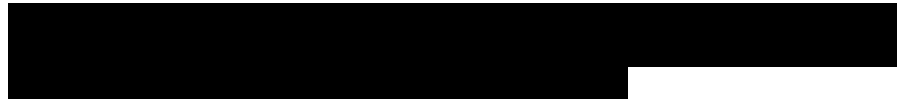
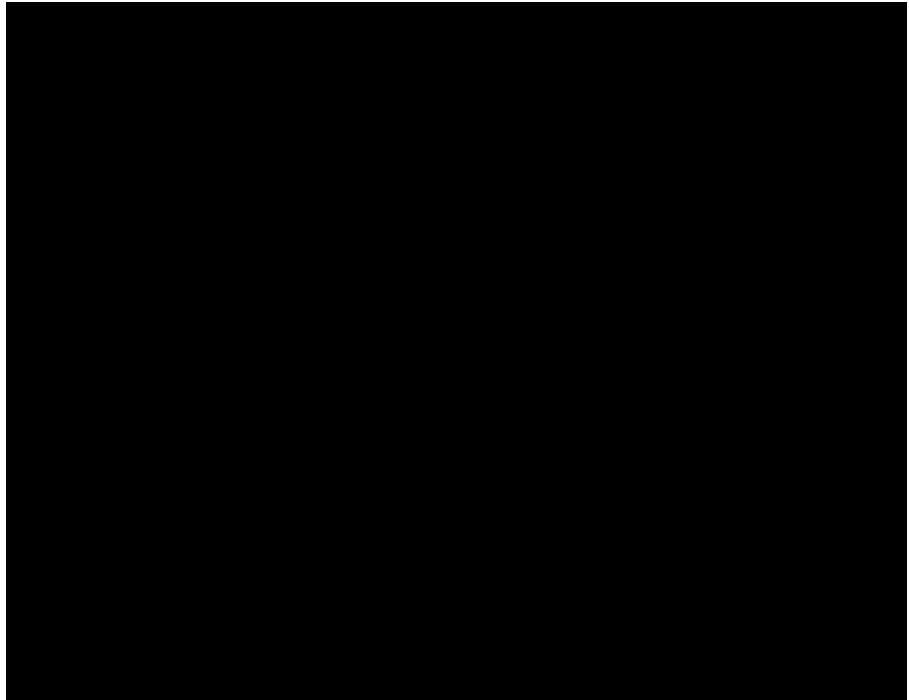


Energy produced offshore by the Project will be in the form of high voltage AC. An OSS, consisting of an offshore structure, switchgear and bi-directional converter, will collect produced energy and convert it to HVDC for transmission onshore at Ravenswood where it will be converted back to AC suitable for injection in the Zone J electric grid. Energy will be transmitted from offshore through a buried subsea export cable installed between the OSS and Ravenswood.



Geotechnical and geophysical surveys, as well as an extensive set of site assessments were completed for the State waters portion of the route, for which an Article VII application was filed on December 2, 2022. Figure 4-1 shows the offshore export cable route for the Project.

Export Cable Route within Federal Waters

The Project export cable route originates in the Lease Area, exiting to the north and heading northwesterly towards New York State.



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Fisherman at work

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Attentive Energy has conducted extensive survey campaigns to design a preferred cable route that seeks to avoid all known sensitive areas, an illustration of the Project's focus on being minimally invasive to the environment.

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Export Cable Route Within State Waters

Rise has done extensive routing work in State Waters that compliments Attentive Energy's work in Federal waters to create a single, low-cost, low-risk route to the POI at Ravenswood. Rise initiated efforts to identify and mature a cable route within State waters in 2020.

[Redacted]

The data collected during these surveys, which encompassed over 255 mi within Lower New York Bay, Upper New York Bay, and the East River, was used to develop an application to the NYPSC for a CEPN under Article VII of the New York State Public Service Law for the portion of the Project within New York State waters. Rise submitted the Article VII application to the NYPSC on December 2, 2022.

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The Project will utilize a portion of the submarine cable corridor proposed in the Article VII application submitted by Rise.

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The Project will utilize one of two circuit trenches contemplated within the proposed corridor described in the Article VII application. The width of the HVDC submarine cable corridor proposed in the Article VII application, which can support the installation of two circuits, is 200 ft in the East River between Ravenswood and Corlears Hook in Manhattan and widens to 300 ft for the remaining distance to the New York State waters boundary in Lower New York Bay.

Attentive Energy’s project onshore footprint is contained entirely within Ravenswood Site and abutting property substations resulting in full onshore site control that eliminates project risk in a way unmatched by competitors.

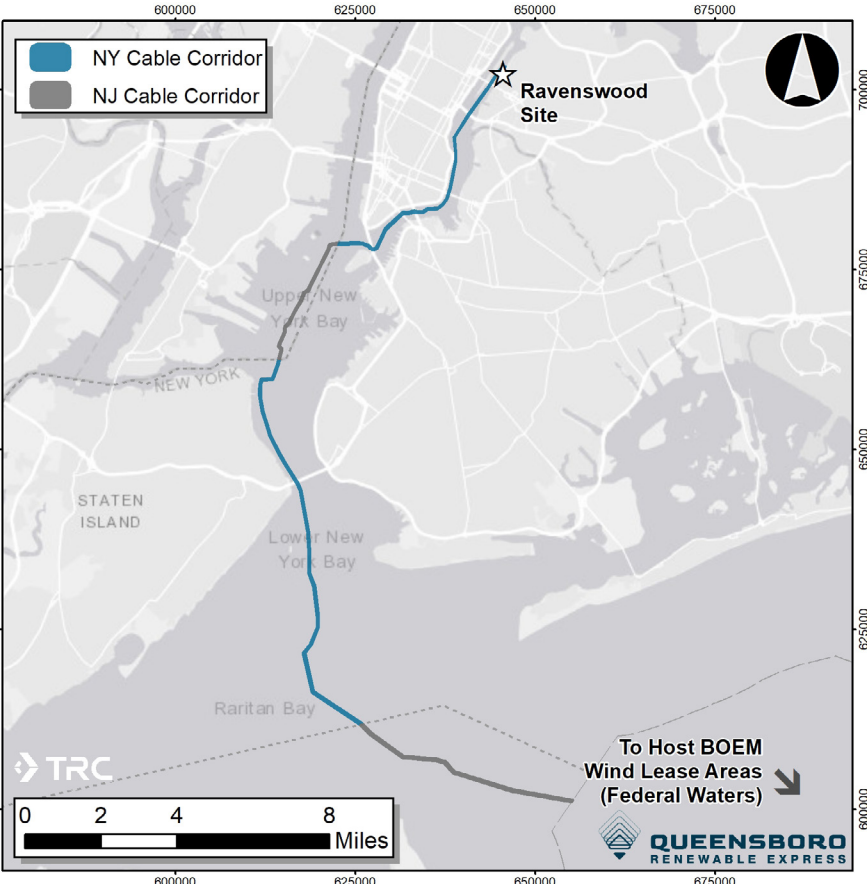
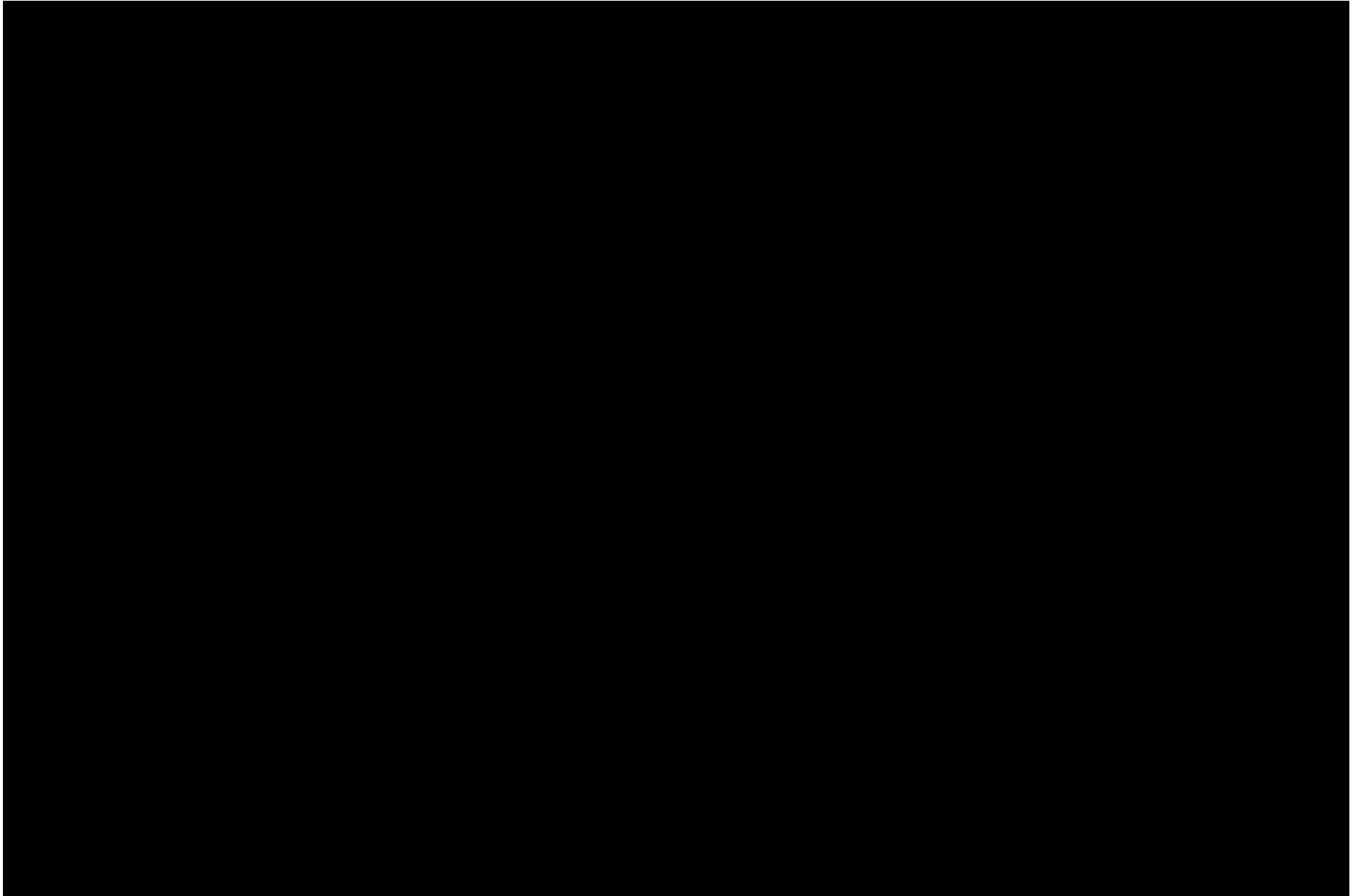


Figure 4-3 Export cable route through State waters



Overview of Onshore Facilities

The Project's onshore components will include the terrestrial HVDC cable, HVDC converter station, AC substation, and AC cables. [REDACTED]

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Ravenswood is a brownfield industrial site, historically devoted to energy uses and large enough to accommodate the Project's onshore components. Rise, who owns and operates the existing Ravenswood Generating Station, controls the site. [REDACTED]

Cable Landfall, Terrestrial Route, Onshore Converter Station, and Interconnection Point

The Project's export cable route will transition to shore at Ravenswood. Ravenswood contains the entirety of the Project's onshore footprint, enabling Attentive Energy to offer a Project with complete onshore site control and that effectively eliminates the associated project risk at a level unmatched by competitors.

Figure 4-4 provides a map of the Project's onshore facilities.



Proposed converter station site existing conditions

Injection and Delivery Points

The Project will interconnect to the new Ravenswood AC substation connecting to Rainey at 345 kV and Vernon at 138 kV. Section 8 provides additional information on the POI. Ravenswood has access to both the Rainey and the Vernon Substations, which are both immediately adjacent to Ravenswood.



View from Queensbridge Park along the East River

will continue to be refined to account for water depth, seabed conditions, asset crossings, and other criteria as discovered during route investigation and survey activities.

Lease Area and Generator Lead Line Right of Way (Federal Waters)

Pursuant to the BOEM lease, Attentive Energy will seek approval of a SAP and COP for the Project. Once approved, Attentive Energy can conduct respective Project activities in accordance with those approved plans.

Attentive Energy will obtain additional permits and approvals, as necessary, from the USACE, USCG, DOD, and others. Section 10 provides a complete description of permitting requirements and progress made to date. As of the current design stage, the BOEM separation guidelines and standard ROW grant assumptions, 200 ft, are being followed. The export cable corridor width

Generator Lead Line Right of Way (State Waters)

The Article VII application for the Project was filed on December 2, 2022. Under the New York Public Lands Law, a trust for the people of New York State under the jurisdiction of NYSOGS holds the title to the bed of numerous bodies of water, including those New York State waters traversed by the export cable. The Proposer will require a work/construction permit from the NYPSC to install the export cable. Once the cable is installed, the Proposer will request a License, Grant or Easement for Use of State Lands Underwater from NYSOGS for the right to occupy the seabed in New York State waters.

For the use of New Jersey State-owned submerged lands under Lower New York Bay and Upper New York Bay, the Proposer will be seeking a Tidelands Utility License (24-year term) from the NJDEP Bureau of Tidelands Management. The Proposer must submit the application for the Tidelands Utility License at the time of filling out the application for the In-Water Waterfront Development Permit. The Proposer briefed with the NJDEP on December 1, 2022.

Section 10 provides a complete description of permitting requirements and progress made to date.

Infrastructure Crossings



Attentive Energy can demonstrate an exceptional level of onshore site control and regulatory advancement at this early stage: POI close to shore with available capacity, [REDACTED], queue positions in place, a compact onshore footprint entirely within Ravenswood, and an Article VII application for the installation of cables in New York State waters make it a mature project posed to provide green electrons right in the heart of New York City.



View of Lower Bay from Verrazano-Narrows Bridge

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Fugro (2019) “*New York Bight Geophysical and Geotechnical Desktop Study*”, Document Number 02.19011621-01, issued to East Wind LLC

Gardline (2021), “*Geophysical Survey Interpretive Report: Hudson North Study Area, Hudson South Study Area, and Geophysical Files*”, NYSERDA

Gray and Pape (2022), “*Pre-historic viability study prepared for the New York Bight proposed lease areas (prepared on behalf of Attentive Energy)*”

RPS Group, UXO Desktop Study OCS-A 0538 and export cable routes. 2022

SECTION 5

ENERGY RESOURCE ASSESSMENT AND PLAN

A photograph of an offshore wind farm. Two large white wind turbines with yellow bases are visible on the dark blue sea under a clear blue sky with some light clouds. The image is framed by a large, curved, light blue shape on the right side of the page.

TTE's Seagreen WTGs,
Scotland's largest OSW farm

Section 5 Table of Acronyms

ASOS	Automated Surface Observing System
DAWM	Deep Array Wake Model
DTEC	DTU TotalEnergies Excellence Center of Clean Energy
DTU	Technical University of Denmark
EOLOS	EOLOS Floating Lidar Solutions
ECMWF	European Centre for Medium- Range Weather Forecasts
ERA - 5	ECMWF Re-Analyses (ERA) 5
FLIDAR	Floating Light Detection and Ranging
FLS	Floating Light Detection and Ranging System
GW	Gigawatt
GWh	Gigawatt hour
IEC	International Electrotechnical Commission
km	Kilometers
Lease Area	Lease Area OCS-A 0538
LiDAR	Light Detection and Ranging
m	Meters
MERRA-2	Modern-Era Retrospective Analysis for Research and Applications, Version 2
metocean	Meteorological and/or Oceanographic
MW	Megawatt
NBDC	National Buoy Data Center
NOAA	National Oceanic and Atmospheric Administration
NOAH	Narec Offshore Anemometry Hub
NWS	National Weather Service
OWA-Y	Offshore Wind Accelerator
s	Second

SAP	Site Assessment Plan
SCIP	Supply Chain Investment Plan
█	██████████
UTM	Universal Transverse Mercator
WEA	Wind Energy Area
WTG	Wind Turbine Generator

5. ENERGY RESOURCE ASSESSMENT AND PLAN

Wind Resource Assessment



Expertise

TotalEnergies' Experience

Attentive Energy benefits from Sponsor TotalEnergies' extensive technical expertise in collecting and analyzing wind data and modeling wind resource, which draws upon its 11 GW global portfolio of offshore wind projects. TotalEnergies' OneTech Wind Department is comprised of specialists dedicated to offshore measurement campaign designs and operations, wind resource analyses and energy production assessments for TotalEnergies' wind assets. The OneTech Wind Department acquires and assesses wind data such as multi-height wind speed and direction, turbulence intensity, temperature and other meteorological parameters. These all can affect the design, production, operation, maintenance, and life of offshore energy projects.



NYSERDA's Hudson South FLiDAR



Moreover, TotalEnergies' OneTech R&D Department dedicates a significant part of its R&D budget to renewable energy research topics, keeping its engineers on the cutting edge of offshore wind science. Collaborations include:

- DTEC – a partnership with DTU Denmark to advance research and technology development in clean energy with a special focus on wind power generation.
- GLoBE – a Joint Industry Project to build an industry consensus around how blockage is modeled and corresponding uncertainty is assessed, which may allow developers to reduce the uncertainties assigned to blockage effects, making it easier to finance the construction of new offshore wind farms.

- The Carbon Trust's Offshore Wind Accelerator – TotalEnergies is involved in the technical working group dedicated to yield and performance, which seeks to develop a better understanding of the behavior of wind flow across offshore wind farms and improve modeling techniques within energy yield analyses.
- CASSIOWPE aims to support the development of offshore wind energy in the French Mediterranean coastal areas by providing a database of high-resolution observations of wind, wave, and current fields, as well as a new numerical tool for the modeling of metocean conditions in the Gulf of Lion.
- OROWSHI aims to better characterize extreme wind and waves during tropical cyclones to optimize the design of offshore WTG exposed to hurricane risks.

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The energy production of the Project was derived from the wind resources assessment using state of the art methods from various University R&D partnerships and Joint Industry Projects [Redacted text]

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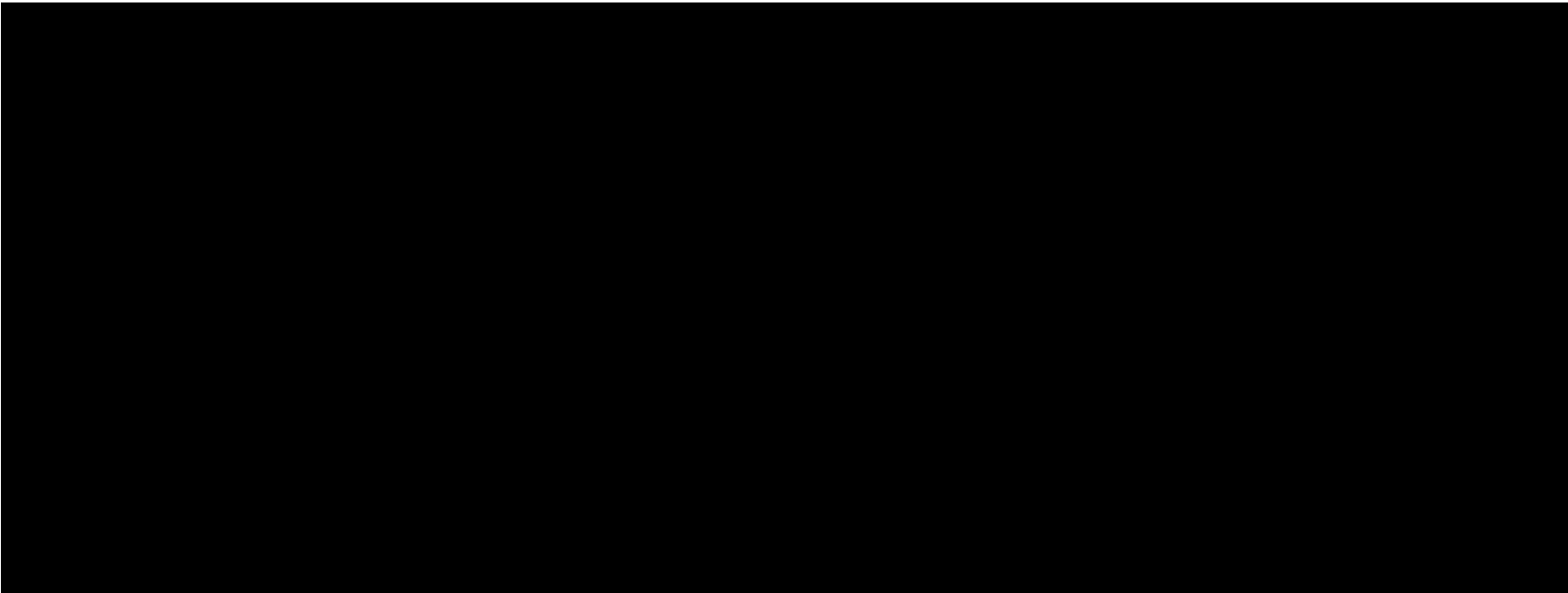
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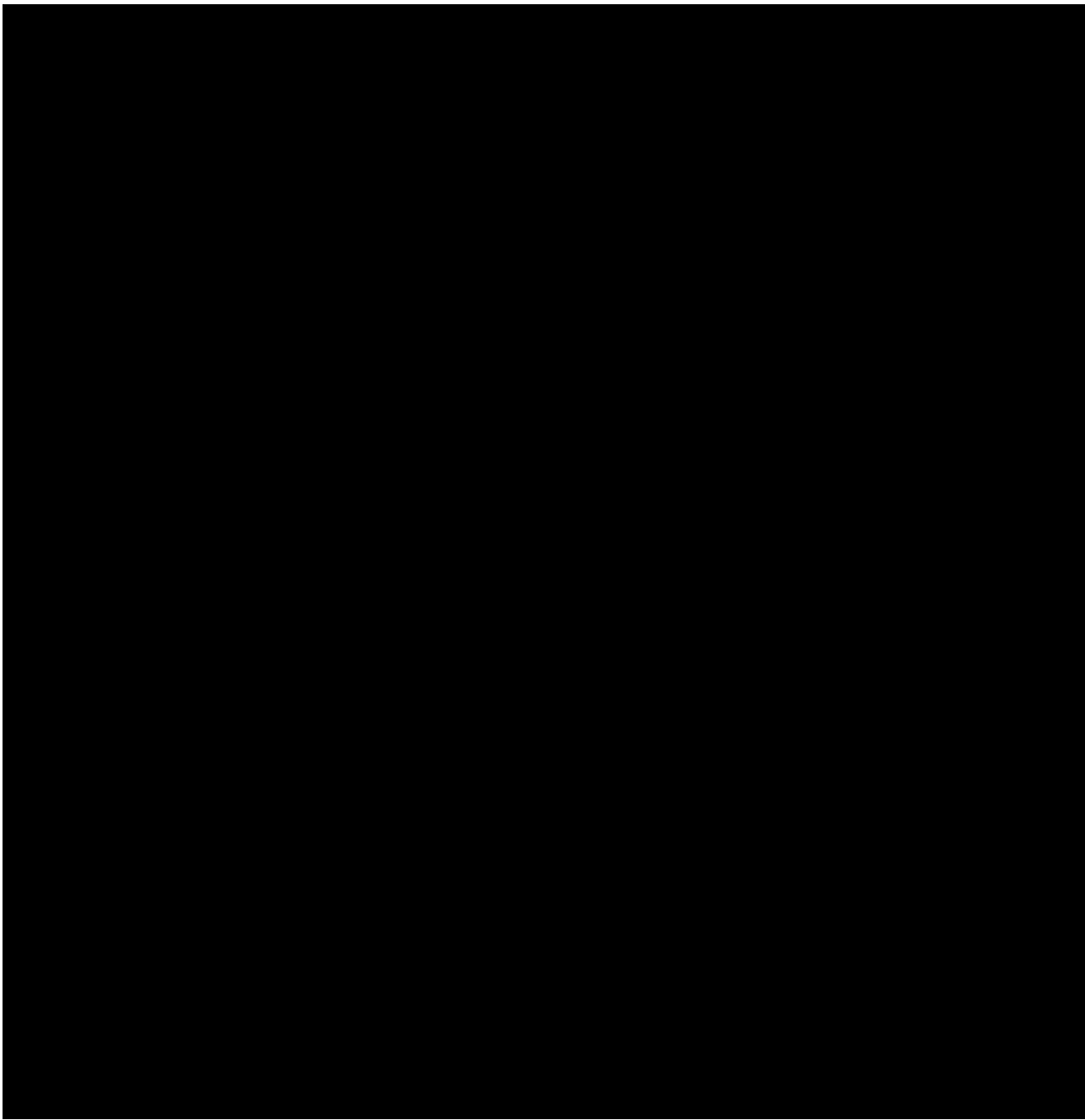
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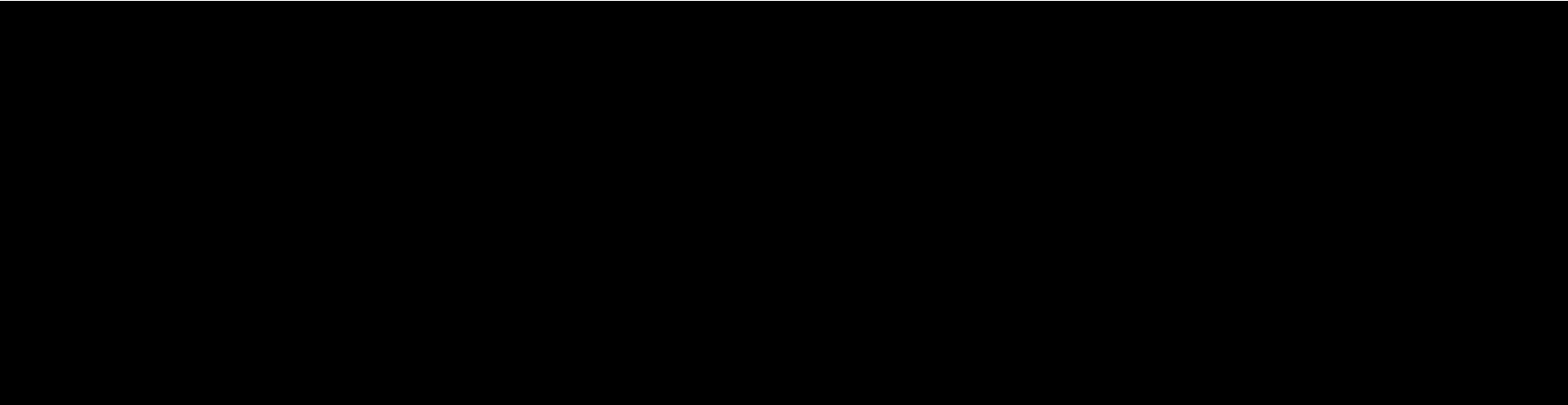
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References

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SECTION 6

OPERATIONAL PARAMETERS



Section 6 Table of Acronyms

AC	Alternating Current
CMIMS	Computerized Maintenance & Inspection Management System
COP	Construction and Operations Plan
CTV	Crew Transfer Vessel
D	Day(s)
DNA	Deoxyribonucleic Acid
FEED	Front End Engineering Design
ft	Feet
GMP	Generic Management Programs
GW	Gigawatt
H_s	Significant Wave Height
HSE	Health, Safety, and Environment
HVDC	High Voltage Direct Current
JUV	Jack-Up Vessel
kV	Kilovolt
Lease Area	Lease Area OCS-A 0538
LNG	Liquefied Natural Gas
m	Meters
MARSEC	Maritime Security
MW	Megawatt
NERC	North American Reliability Corporation
NOAA	National Oceanic and Atmospheric Administration
NYISO	New York Independent System Operator, Inc.
O&M	Operations & Maintenance
OEM	Original Equipment Manufacturer
OSS	Offshore Substation
RBM	Risk-Based Maintenance

RCM	Reliability Centered Maintenance
s	Seconds
SAP	Site Assessment Plan
SCADA	Supervisory Control and Data Acquisition
SATV	Service Accommodation and Transfer Vessel
SECE	Safety and Environment Critical Elements
SMS	Safety Management System
SOV	Service Operation Vessel
TMSE	Turbine Mounted Safety Equipment
UPS	Uninterruptible Power Supply
USCG	U.S. Coast Guard
WTG	Wind Turbine Generator

6. OPERATIONAL PARAMETERS

Introduction

Attentive Energy has been active in the New York State power sector for over twenty years via Rise, which has experience managing critical NYC energy infrastructure and has the know-how to keep electricity operational for NYC consumers. Rise is a daily participant in NYISO's energy markets and understands how to manage generation assets through a changing grid. Attentive Energy further leverages the offshore O&M experience of TotalEnergies, whose safety-driven culture and deep expertise have allowed it to become a global leader in the energy industry. TotalEnergies' safe and reliable operations are part of its DNA and have been cornerstones of its long history of successful activities in oil and gas, marketing and services, and renewable energy.

The Project's Approach to O&M

Attentive Energy's O&M philosophy is to operate its wind farm in a safe, reliable, and cost-effective manner for the lifetime of the Project. To meet these goals, Attentive Energy's O&M concept contains the following key elements:

- [REDACTED]
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Attentive Energy benefits from the offshore and onshore operations and maintenance experience of the Sponsors, who operate large-scale offshore energy assets globally and in NYC's largest thermal generating facility.

Attentive Energy's O&M Experience

Offshore O&M Experience

Globally, TotalEnergies has interests in operated and non-operated offshore assets, including a dozen floating, production, storage, and offloading units and over 200 fixed offshore platforms installed all over the world, some in very challenging weather, soil, or seismic conditions.

Through the TotalEnergies OneTech organization, Attentive Energy has direct access to all the engineering, technical, and research resources required to sustain efficient operations, maintenance, and logistics. From its vast portfolio of industrial operations and partnerships, TotalEnergies brings all the required O&M competencies to its offshore wind portfolio, specifically in safety management, marine operations and logistics, remote monitoring of offshore installation, rotating equipment, maintenance and inspection of equipment and structure from seabed to subsurface, lifting, operations organization set-up, and preparedness for large-scale projects.

Leveraging TotalEnergies' longstanding presence and deep roots in different parts of the world operating and maintaining complex, large-scale energy assets across various sectors, Attentive Energy is prepared to deliver a project that is reliable and sustainable over the long term. **Onshore O&M Experience at Ravenswood**

Attentive Energy also benefits from Rise's significant experience operating generation in New York and participating in the NYISO markets. Rise owns and operates the Ravenswood Generating Station, which has been a vital part of the New York energy system for more than 60 years. The Ravenswood Generating Station has several generating assets with a combined output of more than 2 GW. Located in Long Island City, Queens, New York, Ravenswood supplies over 20% of the NYC generation capacity requirements.

The Ravenswood Generating Station participates in the NYISO wholesale market and connects to the Con Edison transmission grid via the 345 kV system at Rainey and the 138 kV system at Vernon. Ravenswood is a MARSEC facility and has experience in marine operations; the plant manages more than 390,000 barrels of liquid fuel products stored onsite and off-site, taking new delivery via barge as needed.

The O&M staff interacts directly with the Con Edison and NYISO system operations departments to coordinate all generation and switching operations for more than 2 GW of generation. Employees have training in bulk electric system operations and NERC standards to ensure compliance with all requirements.

Ravenswood has a proven history of working with local, State, and Federal regulatory organizations to maintain site operating permits. Ravenswood's O&M program is designed to ensure safe and environmentally compliant operations of the equipment located at the site. The program consists of interconnected teams that form a world-class O&M organization. These teams include safety, environmental compliance, NERC compliance, operations and maintenance groups, maintenance planning, training department, business operations, procurement, materials management and warehouse, accounts payable, and information technology.

Safety: A Core Value for Attentive Energy

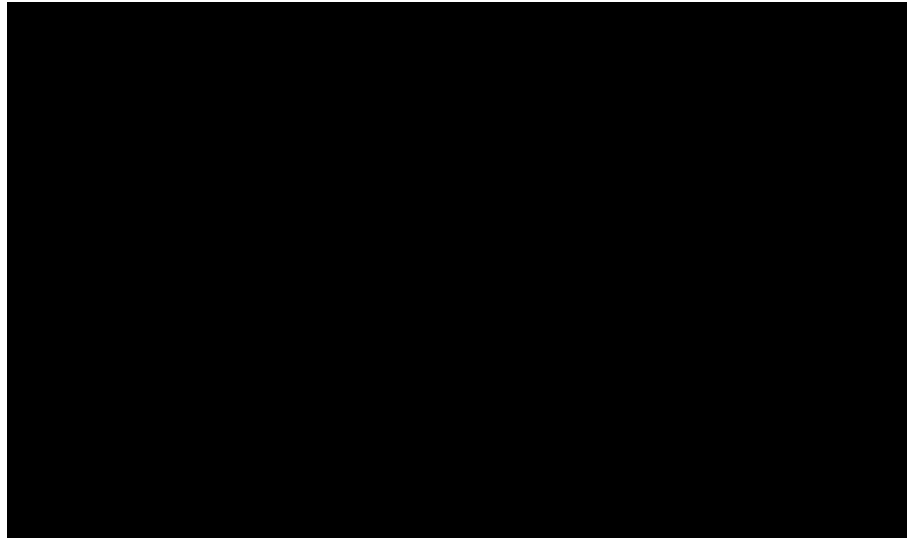
It is the policy of Attentive Energy and its Sponsors to provide their employees, visitors, and contractors with a safe workplace. Attentive Energy believes all accidents are preventable and will establish a comprehensive HSE risk assessment process and corresponding HSE management system



Ravenswood's O&M staff is comprised of approximately 90 experienced members of UWUA Local 1-2. The onsite staff provides all O&M and compliance activities to manage all day-to-day activities optimally along with long-range maintenance planning and forecasts.

for the entire project life cycle—including the operational phase. The Project HSE management system will be applicable to onshore and offshore activities and include all policies, procedures, and work instructions required to manage HSE risks safely. This HSE management system will be compliant with all regulatory requirements and best practices and will fully elaborate on the content of the SMS, which will be documented as part of the COP submission.

Maintaining a robust health and safety culture across all Project activities, with the goal of zero accidents or injuries, is Attentive Energy's highest priority. Attentive Energy applies the same rigorous standards for HSE as both Sponsors. Key to ensuring a safe work environment is implementation of a comprehensive program of safety competence and training together with the adoption of critical safety practices by all. One such practice utilized by Attentive Energy is universal STOP-work-authority, which



empowers all employees and contractors to stop work in any situation that they believe present risk to a person's safety, the environment, or assets without any fear of reprisal. "Workplace safety culture is further elaborated through a systematic process for learning from incidents/events, tools for on-the-spot reporting of observations/anomalies to identify weak signals, and the adoption of a comprehensive system of task-based risk assessment and activities control.

The Sponsors each bring with them an unmatched reputation for safety across their operational sectors. TotalEnergies' strong operational excellence in its global offshore activities comes with an understanding of the risks and associated management needs specific to offshore operation and a safety record which is best in class amongst the major global energy providers.

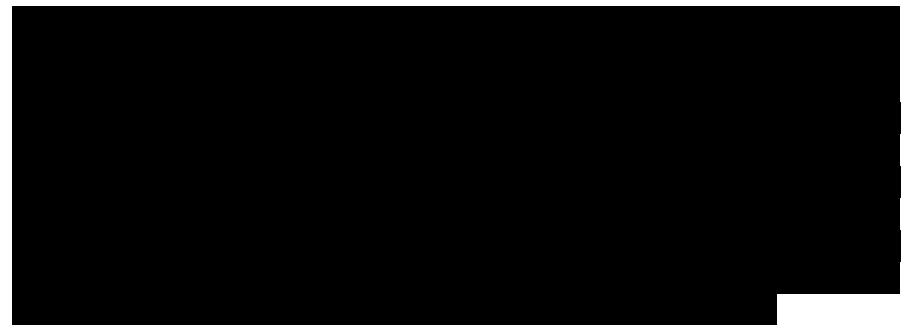
Rise's longstanding presence in the New York area has made safety paramount to demonstrate longstanding safe and environmentally compliant operations of the equipment located at Ravenswood. Please see Attachments 3-D and 6-A for the corporate safety commitments of TotalEnergies and Rise.

An Offshore Wind O&M Hub at Ravenswood

The O&M hub supporting the Project's operations will be located at Ravenswood on the East River in Long Island City, Queens.



Planned Outage Requirements



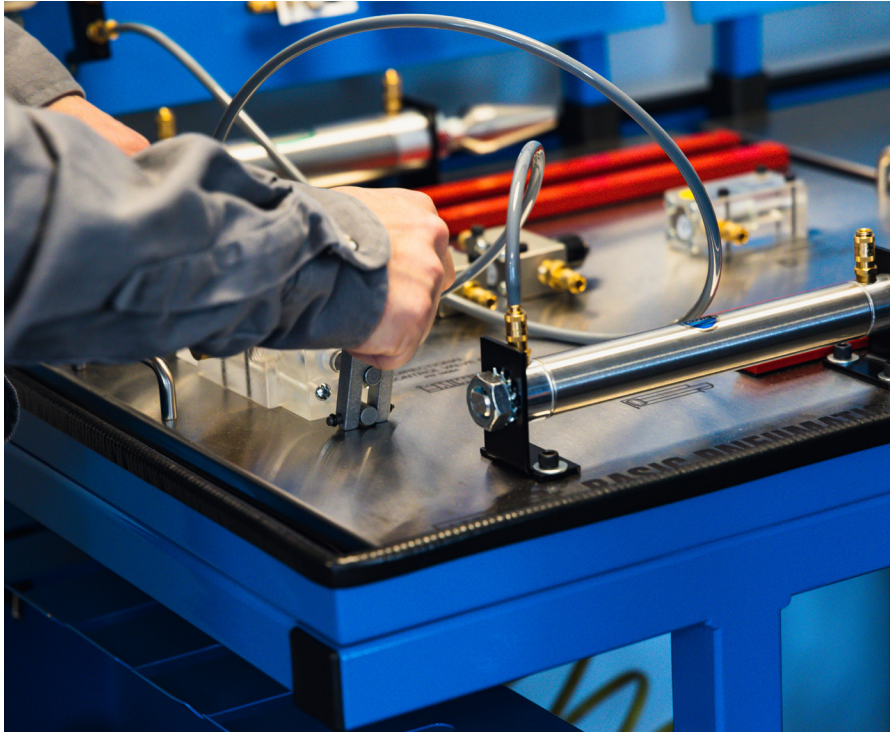
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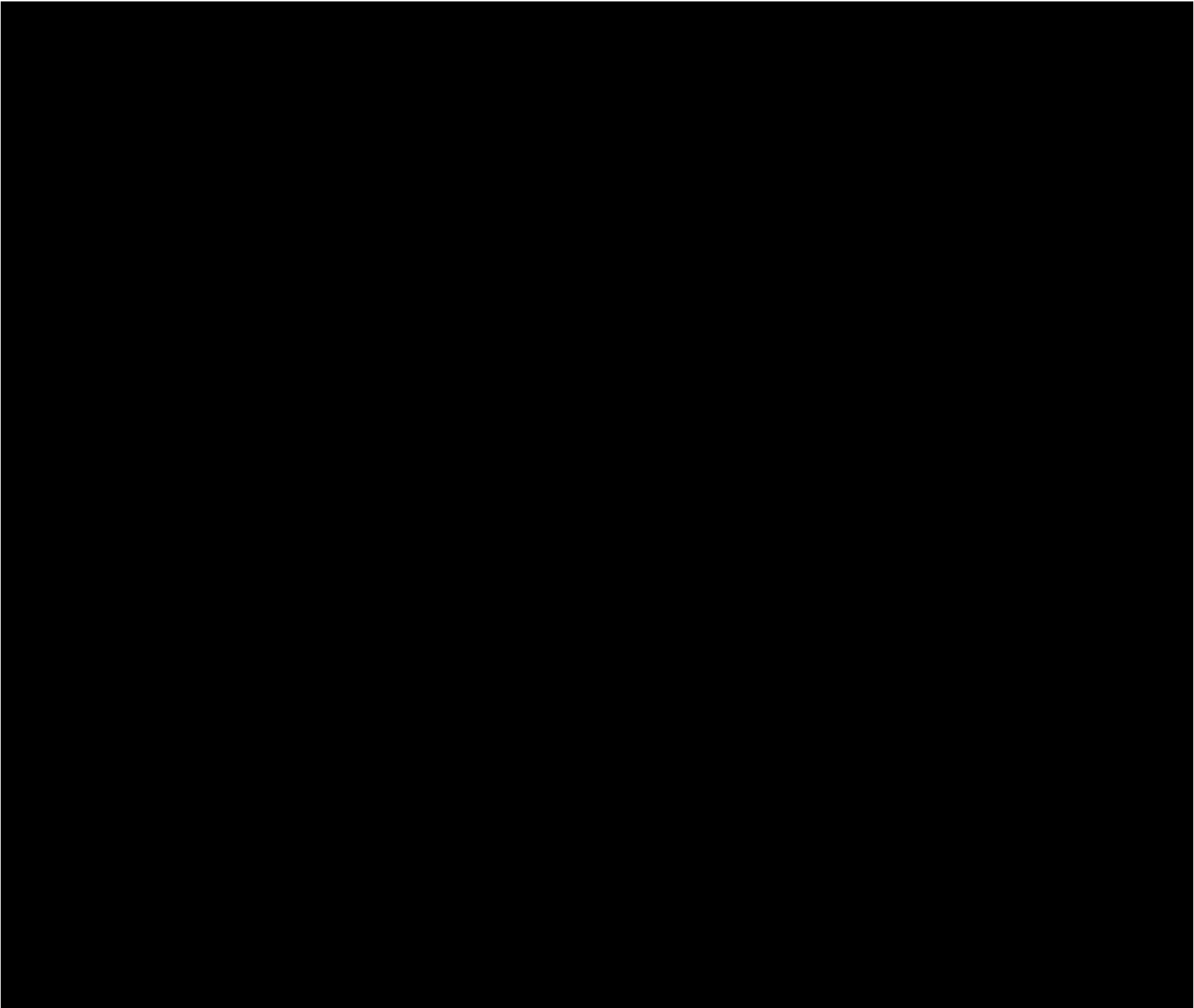
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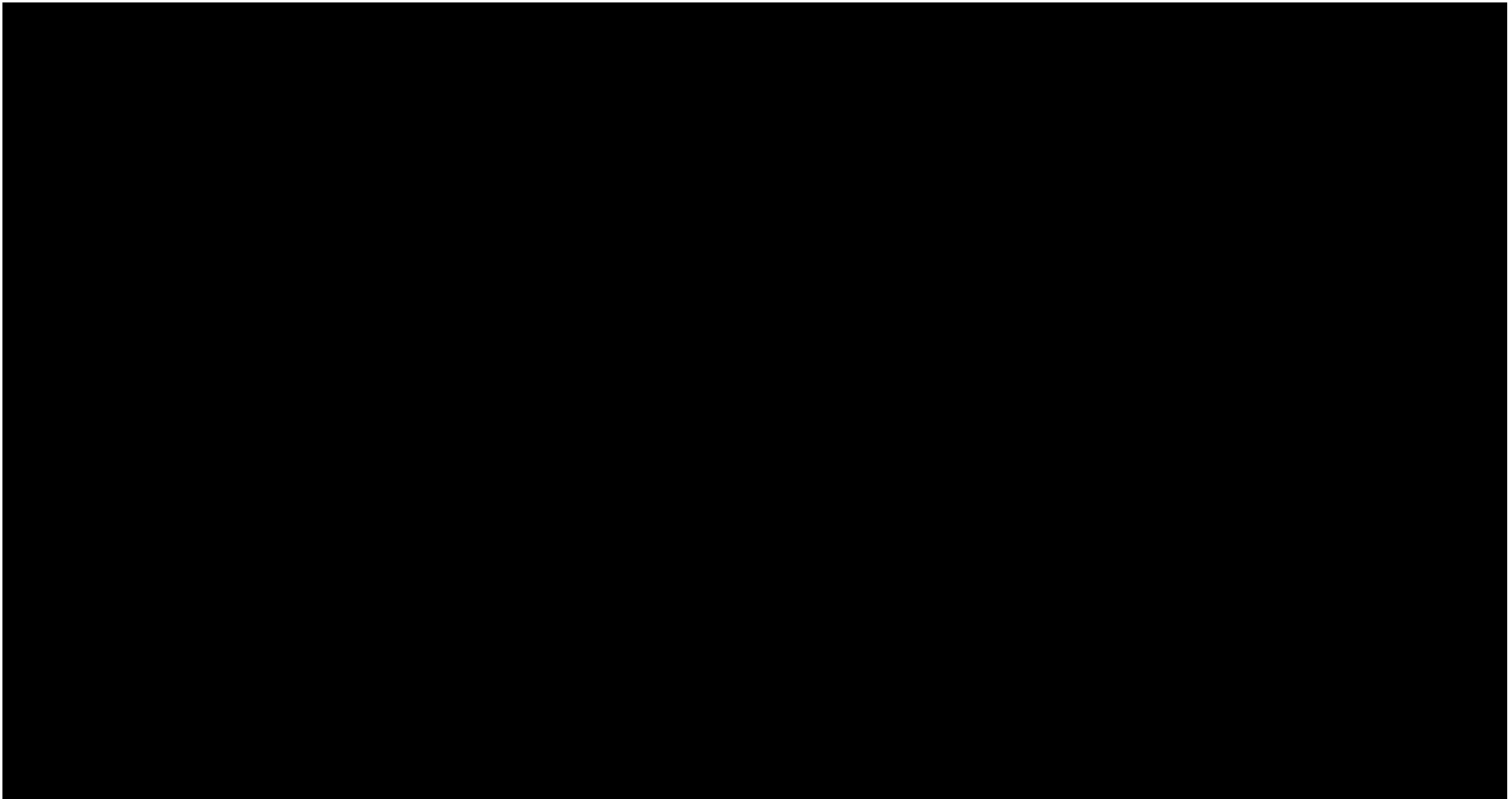


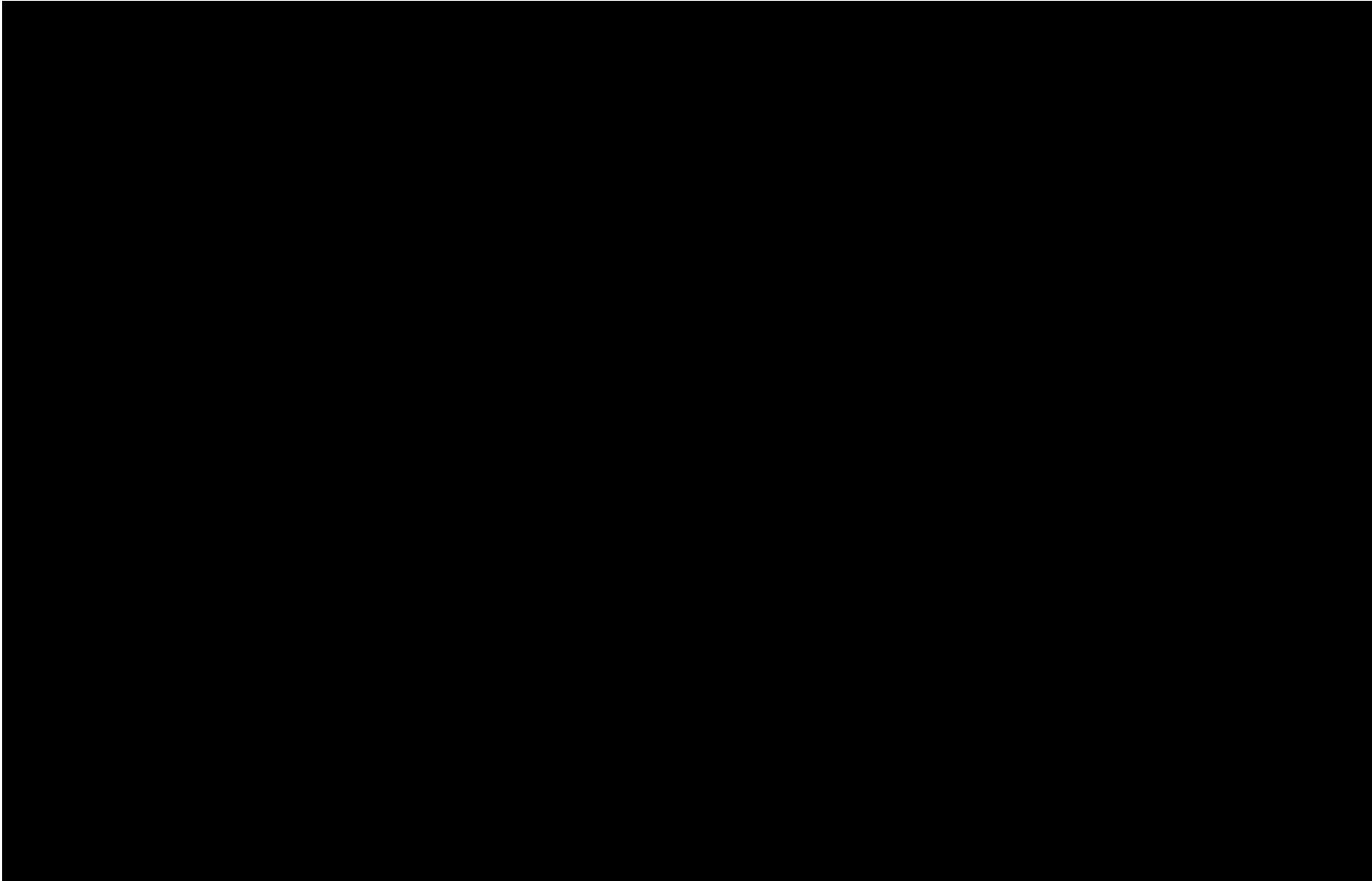


Cycle Length



The Projects' cyclical SOV deployment strategy will maximize technicians' time onsite for maintenance, guarantee safe access even in severe weather conditions, and ensure a quick response to unscheduled failures.





To proactively identify and avoid equipment failures, Attentive Energy will conduct regular inspection and maintenance, including through use of a remote condition monitoring system. This proactive O&M approach will allow Risk-Based Maintenance, which is used to determine the most economical and optimal way to distribute resources, to repair a system, improve overall operations and availabilities, and minimize risk. If a failure does occur, maintenance personnel will repair and replace the equipment as quickly as possible, since maintenance personnel and most spare parts are located on the SOV and therefore directly available for the wind farm.

Operational Constraints and Restrictions

Attentive Energy has identified expected operating constraints and operational restrictions, which will be influenced by HSE regulations, OEM equipment standards, and accessibility, among other things.

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Attentive Energy is aware of the marine and regulatory operational restrictions and holds paramount the Project's commitment to safety of human and marine life. In the upcoming years of development and throughout the Project's operational life, Attentive Energy will be a dedicated partner in working with industry, regulatory agencies, and other ocean users to continue to utilize the state of the science for its operations and to remain in compliance with regulatory constraints.

The location of O&M activities at Ravenswood is a critical part of the Project's Just Transition plan; Ravenswood will become a control center for offshore wind operations, creating union jobs for the Utility Workers Union of America (UWUA Local 1-2).

A large, thick, light green abstract graphic in the top-left corner, consisting of several curved lines that form a partial square or bracket shape.

SECTION 7

BUSINESS ENTITY AND FINANCING PLAN



Section 7 Table of Acronyms

BOEM	Bureau of Ocean Energy Management
CAGR	Compound Annual Growth Rate
CCI	Consumer Confidence Index
COD	Commercial Operations Date
CPI	Consumer Price Index
DSCR	Debt Service Coverage Ratio
DSU	Delay in Start-Up
EBITDA	Earnings Before Interest, Taxes, Depreciation, and Amortization
FID	Final Investment Decision
HVDC	High-Voltage Direct Current
IRA	Inflation Reduction Act
IRS	Internal Revenue Service
ITC	Investment Tax Credit
LLCA	Limited Liability Company Agreement
LMP	Locational Marginal Price
MACRS	Modified Accelerated Cost Recovery System
NYISO	New York Independent System Operator, Inc.
NYSERDA	New York State Energy Research and Development Authority
OAR	Operational All Risks
OREC	Offshore Wind Renewable Energy Certificate
OREC PSA	Offshore Wind Renewable Energy Certificate Purchase and Sale Agreement
PPI	Producer Price Index
S&P	Standard & Poor's
SCIP	Supply Chain Investment Plan

UCAP	Unforced Capacity
WTG	Wind Turbine Generator

7. BUSINESS ENTITY AND FINANCING PLAN

Sponsor Experience and Bankability

The Project is owned by Attentive Energy, which is a limited liability company owned by TotalEnergies and Rise, two leading energy companies. Attentive Energy benefits from the Sponsors' deep experience financing large-scale energy projects. Together, the Sponsors have the financial capability and resources to fund the cash equity portion of the Project to completion and the market knowledge and experience to raise the required debt and tax equity financing necessary to capitalize the Project.

TotalEnergies is involved in an array of projects globally and in the U.S. TotalEnergies is investing heavily in solar and wind power with the aim of becoming one of the world's top five producers of renewable energy by 2030. TotalEnergies has already become a top five renewable energy producer in the U.S. as of 2022. In the past five years, TotalEnergies has invested more than \$10 billion, primarily in photovoltaic electricity and offshore wind. In 2021, TotalEnergies increased its investments in electricity and renewables to more than \$3 billion, or 25% of its net investments. It intends to finance investments of more than \$60 billion in renewable power generation capacity by 2030.

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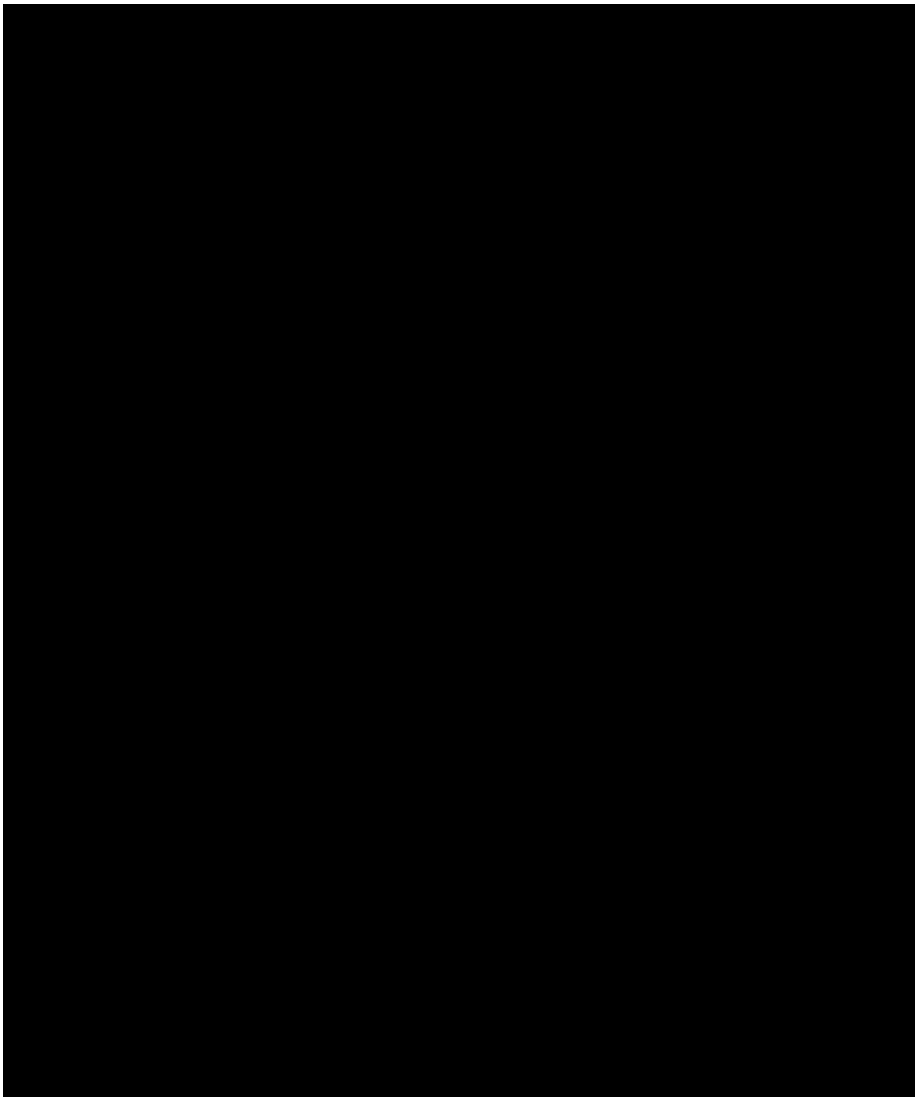
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SECTION 8

INTERCONNECTION AND DELIVERABILITY PLAN



Section 8 Table of Acronyms

AC	Alternating Current
CHPE	Champlain Hudson Power Express
COD	Commercial Operation Date
CPNY	Clean Path New York
CRIS	Capacity Resource Interconnection Service
CY	Class Year
ERIS	Energy Resource Interconnection Service
GIS	Gas Insulated Switchgear
HVDC	High Voltage Direct Current
IA	Interconnection Agreement
IAC	Inter Array Cable
MW	Megawatt
kV	Kilovolt
NYCA	New York Control Area
NYISO	New York Independent System Operator
OATT	Open Access Transmission Tariff
OCS	Outer Continental Shelf
OREC	Offshore Wind Renewable Energy Certificate
OREC RFP22-1	NYSERDA's Request for Proposals to supply ORECs, first issued on July 27, 2022
PAR	Phase-Angle Regulator
POI	Point of Interconnection
QRX1	Queensboro Renewable Express 1
RMR	Reliability Must Run
SDU	System Deliverability Upgrade
SRIS	System Reliability Impact Study
SSC	Short Circuit Current

SUF	System Upgrade Facility
TCR	Tabor Caramanis Rudkevich
VSC	Voltage Source Converter
WTG	Wind Turbine Generator
XLPE	Cross Linked Polyethylene



8. INTERCONNECTION AND DELIVERABILITY PLAN

The Project's Interconnection and Deliverability Plan provides unmatched transmission maturity, low costs and a de-risked Project for New York ratepayers. Interconnection and delivery issues have caused significant delays for nearly every offshore wind project in America, with cable landings and onshore routings being contentious. The Project's transmission solution, QRX1, will avoid these issues.

[REDACTED]

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Ravenswood will host the entire landing and onshore route of the Project. Unlike offshore transmission solutions that have caused problems for other projects, the route will not impact a single beach, park, or residential area.

Attentive Energy's interconnection is uniquely robust: All major onshore components, including the Converter Station and Ravenswood AC Substation, will be sited at Ravenswood, avoiding costs and schedule risks associated with construction on greenfield or utility-owned property.

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The Components of Attentive Energy's Matured, Low Risk Interconnection

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Evidence of Interconnection Request

Given the open regulatory and commercial questions regarding implementation of a Meshed Ready system², the Proposer has submitted a set of interconnection requests to the NYISO to perform SRISs, including one large generator interconnection request (Q#1493) and two merchant transmission requests (Q#1365 and #1366). Rise has reviewed the Project's Interconnection and Deliverability Plan with NYISO senior planning and interconnection staff. Based on these discussions, the Sponsors submitted separate generation and transmission interconnection requests to facilitate additional generation to use the transmission in a future Meshed Ready configuration.

[REDACTED]



Figure 8-1 Export Cable Corridor through State Waters as Proposed in the Queensboro Renewable Express NYS Article VII Application

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NYISO Interconnection Process and Timeline

Attentive Energy’s interconnection process and timeline is grounded in extensive engagement with the NYISO on the Project’s overall Interconnection and Deliverability Plan. Rise submitted a large generating facility interconnection request on December 21, 2022, is proceeding directly to the SRIS, and anticipates completion of the SRIS by the end of 2023.

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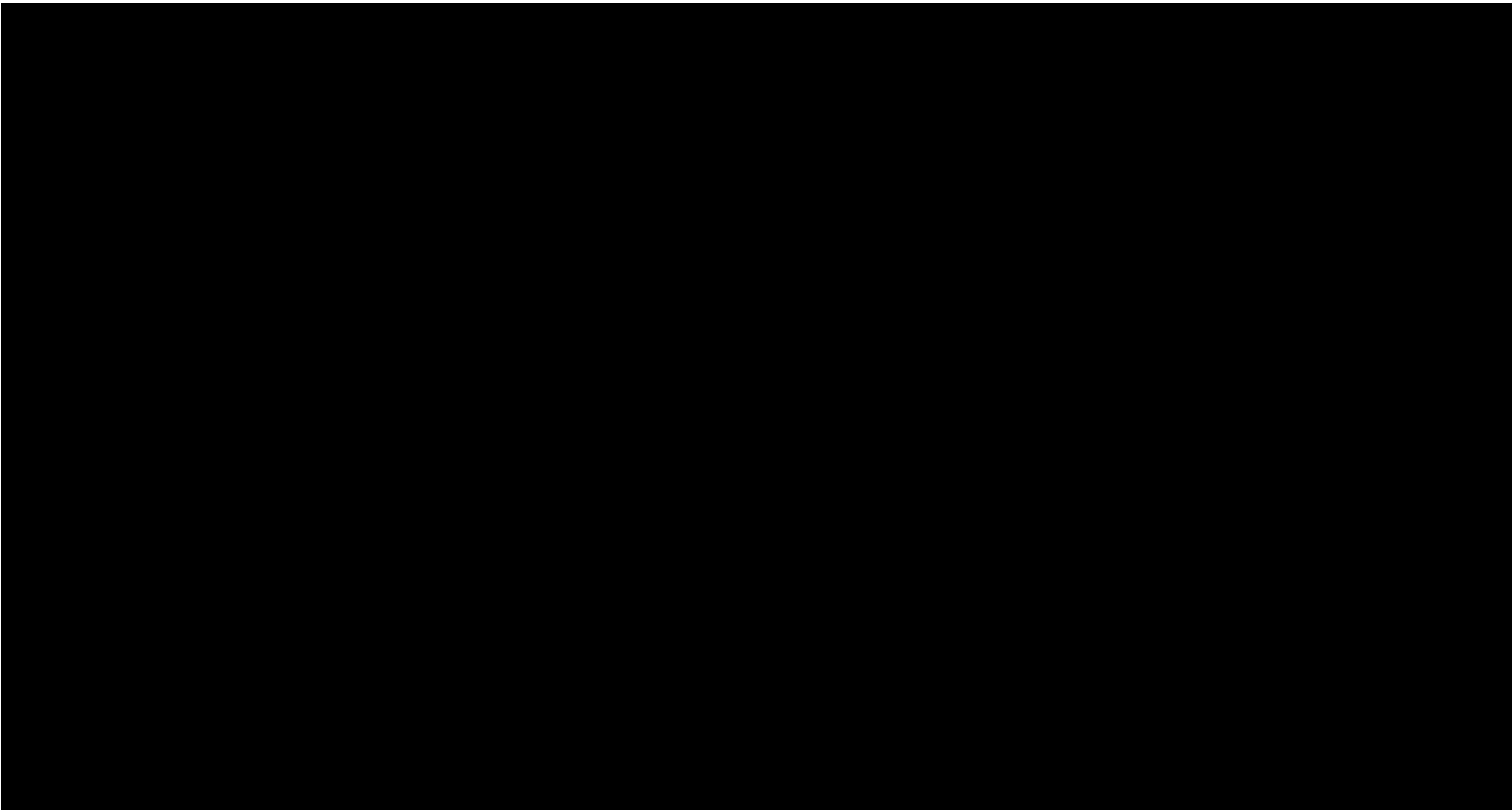
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Attentive Energy team at HVDC site visit



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Attentive Energy HVDC cable site visit

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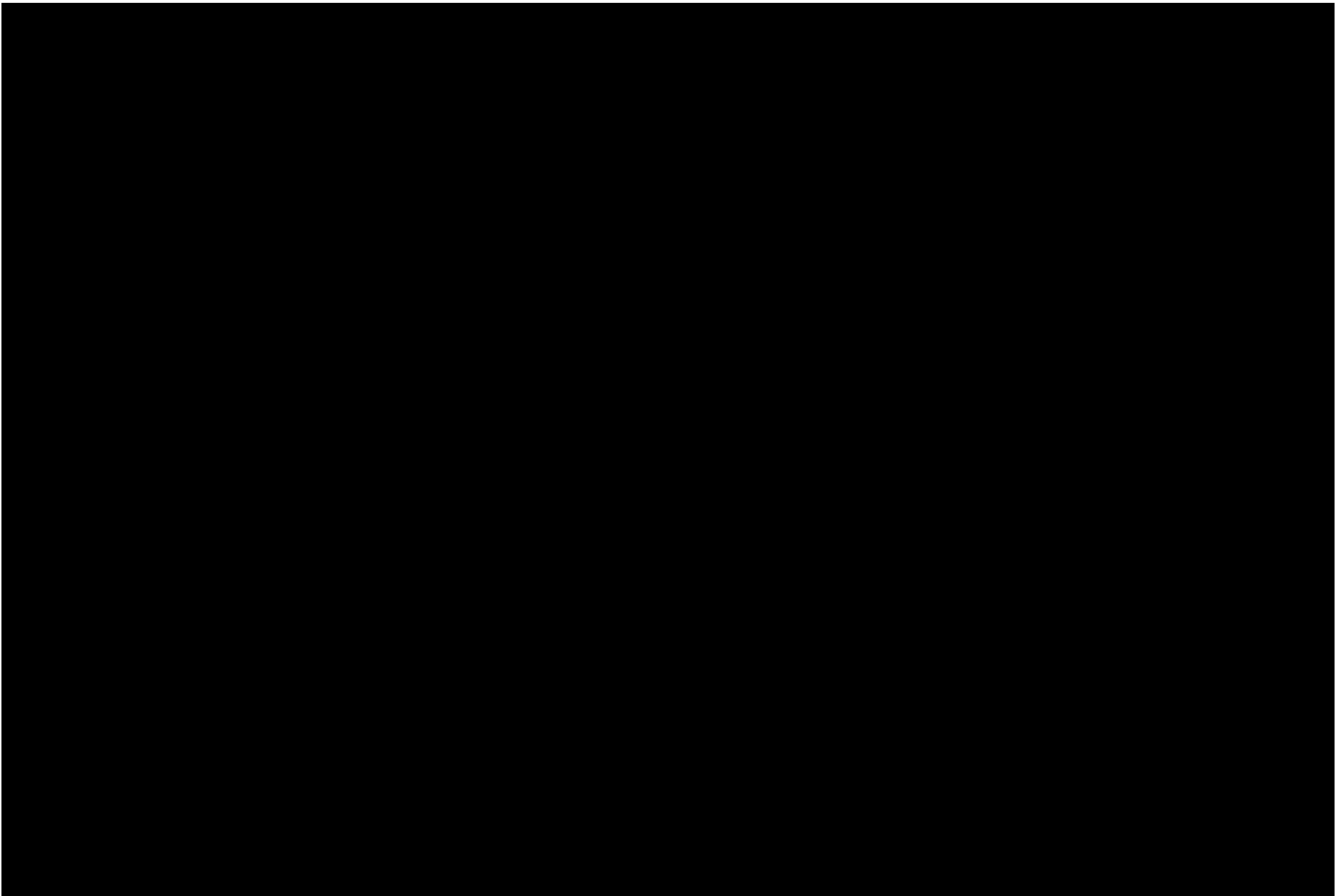
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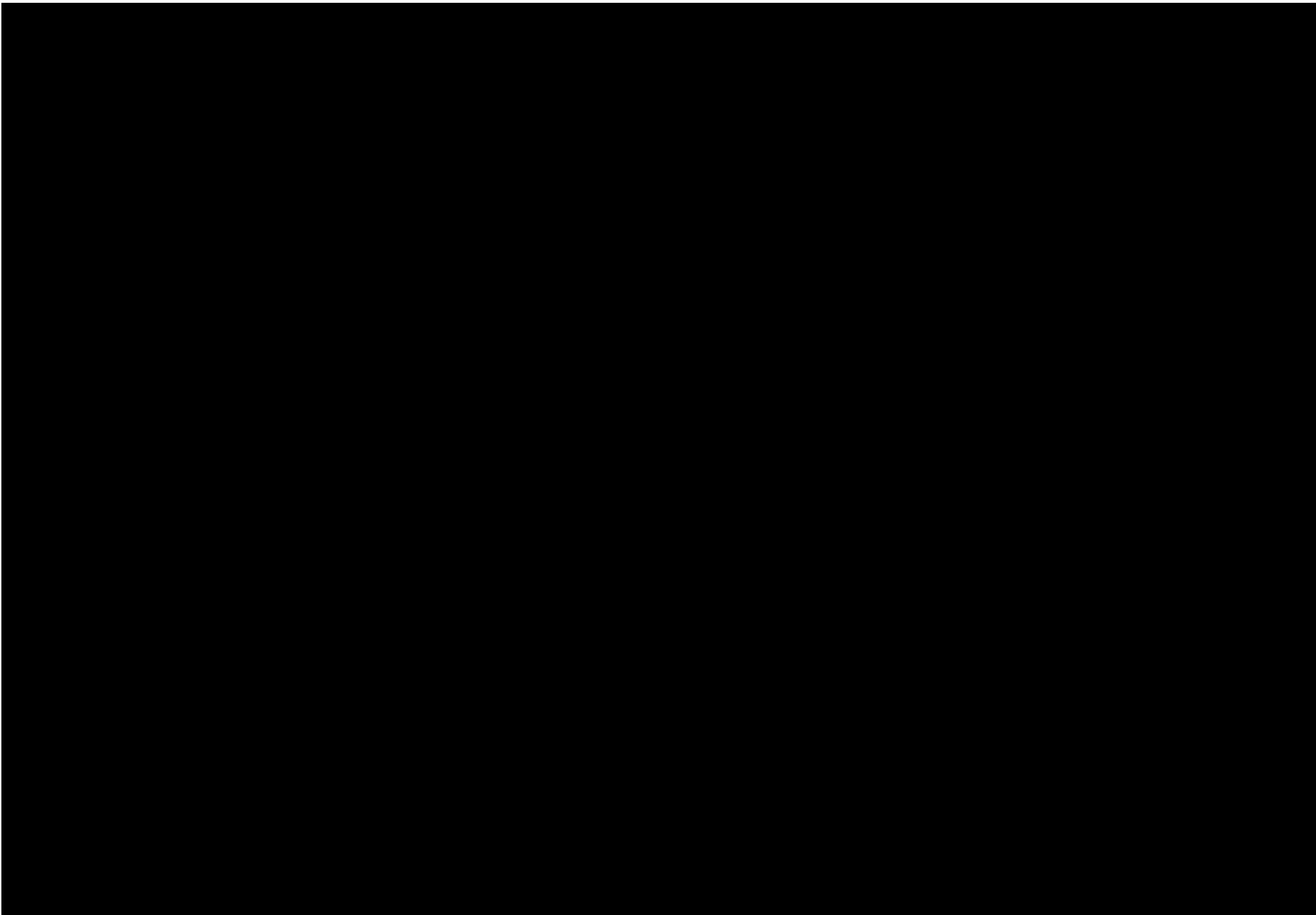
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Power Grid Study, pp. 62: <https://www.nyserda.ny.gov/-/media/Project/Nyserda/Files/Publications/NY-Power-Grid/full-report-NY-power-grid.pdf>
(Retrieved on 1/20/2023)

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(Retrieved on 1/22/2023)



SECTION 9

FOSSIL REPURPOSING PROPOSAL



Section 9 Table of Acronyms

Climate Act	Climate Leadership and Community Protection Act
COD	Commercial Operation Date
CRIS	Capacity Resource Interconnection Service
CTV	Crew Transfer Vessel
DEC	Department of Environmental Conservation
GIS	Gas-Insulated Substation
HVDC	High Voltage Direct Current
MW	Megawatt
MWh	Megawatt Hour
NYCA	New York Control Area
NYCHA	New York City Housing Authority
NYISO	New York Independent Service Operator
O&M	Operations & Maintenance
OATT	Open Access Transmission Tariff
PM	Particulate Matter
POI	Point of Interconnection
QRX1	Queensboro Renewable Express 1
SOV	Service Operations Vessel
[REDACTED]	[REDACTED]
UWUA	Utility Workers Union of America
WTG	Wind Turbine Generator

9. FOSSIL REPURPOSING PROPOSAL

Attentive Energy is offering New York State a historic environmental justice victory by retiring of one of the 400 MW Ravenswood steam turbines (either Unit 10 or 20, depending on which unit is identified for retirement, the “Unit”) and replacing it with offshore wind. The Project’s Fossil Repurposing Proposal will utilize the land and interconnection rights and capabilities of existing fossil generating facilities to interconnect the Project in a reliable, flexible, timely, and cost-efficient manner. Attentive Energy will coordinate the eventual retirement and in conjunction with State agencies, the NYISO, Con Edison, and local communities.

This Fossil Repurposing Proposal is a mature and innovative approach that will create a blueprint for the repurposing of fossil fuel infrastructure in New York State. It is the product of years of engineering design development, site investigations, stakeholder engagement, and regulatory planning. The Fossil Repurposing Proposal provides maximum flexibility, as the Project is not contingent on any specific standalone fossil repurposing activities or approvals to achieve its COD.

The replacement of the Unit at Ravenswood with the Offshore Wind Generation Facility will be the first project directly implementing the Governor’s January 2022 fossil retirement goals to help New York State meet the Climate Act’s targets. Transforming the largest power station in NYC into a renewable energy hub will create a healthier New York, improve the quality of life for all, and steer unprecedented economic development toward local communities.

In 2022, Rise launched an innovative vision for transforming the site of the largest power station in NYC into a renewable energy hub. Dubbed ‘Renewable Ravenswood’, this vision represents a historic opportunity to deliver an environmental justice victory to frontline communities. Rise engages with these communities extensively and has received widespread support for its proposed transformation of Ravenswood. The Fossil Repurposing Proposal will help New York State and NYC achieve their nation-leading climate goals, including achieving a 70% renewable

electricity sector by 2030. Attentive Energy’s Fossil Repurposing Proposal is a cornerstone of the Renewable Ravenswood vision, and the first step in the transformation of NYC’s grid.

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Fossil Repurposing Proposal Benefits

Community Engagement and Environmental Justice

Rise has a long history of engaging with leading environmental justice advocates and Long Island City neighbors to build consensus on a comprehensive vision to repurpose Ravenswood to meet NYC’s 21st-century energy needs. Rise developed the plans for this Fossil Repurposing Proposal in coordination with local community and environmental justice leaders, as well as local NYCHA housing developments to ensure environmental and economic benefits accrue directly to community members.

The Project’s Fossil Repurposing Proposal is a foundational element of Renewable Ravenswood transforming NYC’s largest fossil fuel generator into a clean energy hub, one of the largest and most visible environmental justice initiatives in the nation.

Rise has designed the resulting plan – Renewable Ravenswood – around environmental justice, investing in a historically Disadvantaged Community and working collaboratively with neighbors, particularly NYCHA residents who have faced disproportionate impacts for decades. This will set a precedent for how organized labor and Disadvantaged Community can benefit from the transformation of legacy energy infrastructure.

To position the Project for success, Rise continues to marshal support from local communities and build trusted relationships through frequent

dialogue. The transformative Renewable Ravenswood plan clearly demonstrates the Project’s priorities by taking unprecedented steps to transition Ravenswood, setting up a historic victory for NYC. The Project also ensures a Just Transition by maintaining a strong commitment to the on-site union workforce by keeping and creating family-sustaining, good-paying jobs, and providing clean energy job training and workforce development opportunities. Attentive Energy and its Sponsors have a deep commitment to the Ravenswood workforce as well as to the local institutions and organizations that equip people with the skills to participate in the green energy movement.

Benefits of Fossil Repurposing at Ravenswood

To advance the Climate Act, the Project will contribute to a healthier New York by creating significant quality of life benefits. The Project will also lead to substantial investments to improve economic development opportunities with the most significant benefits accruing to Disadvantaged Community around Ravenswood.

[Redacted text]

The Project will avoid over 26 million mt of carbon emissions in the first 25 years. The Project and the repurposing of the fossil-fueled Unit will decrease CO₂, NO_x, and SO_x emissions by 480,300 mt per year in New York City, where approximately 16% of the population lives in a Disadvantaged Community¹.

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¹ Under the Climate Justice Working Group’s Draft Criteria, approximately 60% of New York City Residents live within a Disadvantaged Community.

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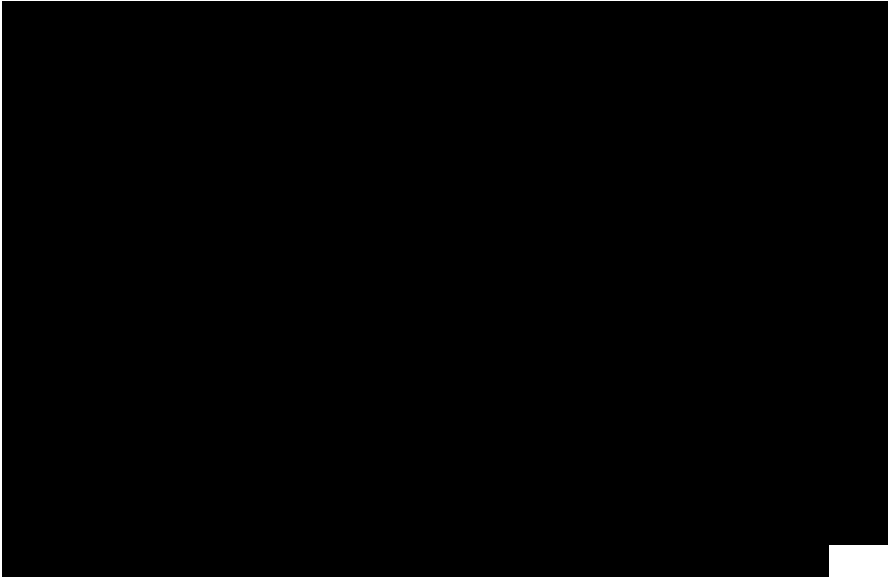
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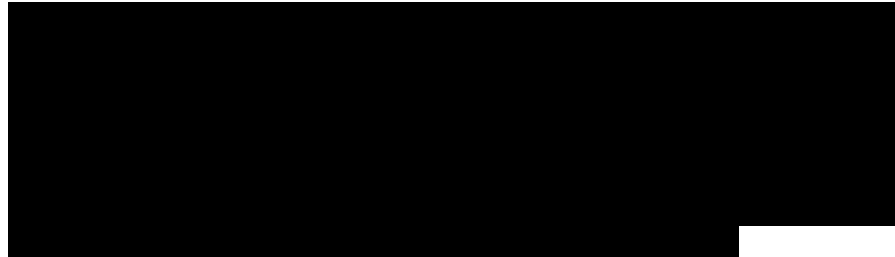
Delivery of Power to NYCA via QRX1

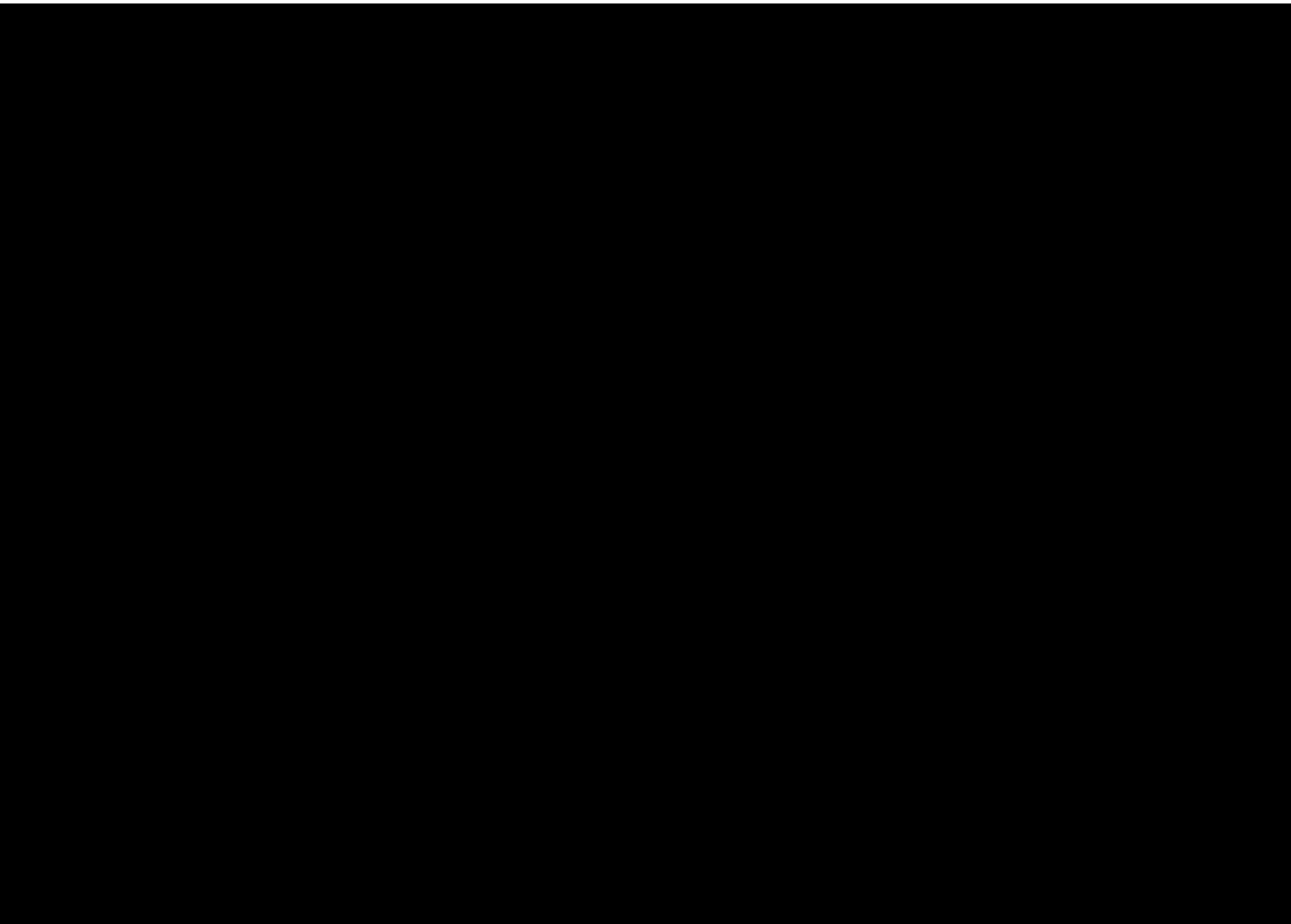
The cornerstone of the Fossil Repurposing Proposal is the plan to interconnect renewable resources at Ravenswood and coordinate the retirement of 1960's vintage gas-and-oil-fueled steam turbine generation located at Ravenswood in Long Island City, New York in accordance with the NYISO Services Tariff and NYPSC rules.

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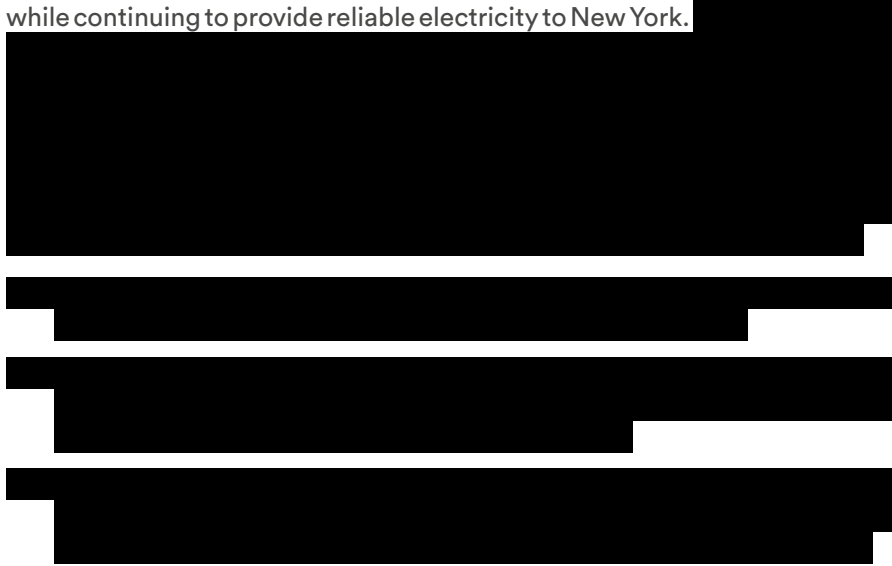
View of Ravenswood Generating Station





A Just Transition for Union Jobs at the Ravenswood O&M Hub

A critical part of transforming Ravenswood is building an inclusive clean energy workforce to ensure a Just Transition, as envisioned in the Climate Act. To that end, Attentive Energy and the Sponsors will build the Ravenswood O&M Hub to service the Project and provide opportunities for the UAW Local 1-2 workers who have proudly operated Ravenswood for decades while earning middle-class, family-sustaining wages. These training activities and jobs will allow union members to leverage new skills while continuing to provide reliable electricity to New York.



The Ravenswood O&M Hub delivers on the Climate Act's Just Transition plan by ensuring that the offshore wind powering New York is also creating union jobs based in New York.



Ravenswood operations employee

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Requirements

Attentive Energy's Fossil Repurposing Proposal is a matured plan that has been reviewed with NYISO and meets the relevant requirements; it will not affect the reliability of New York's electric grid. [Redacted]

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DEC Peaker Rule

Ravenswood Units 10 and 20 are not peaking units and are not subject to the NYSDEC Peaker Rule. Ravenswood's simple cycle peaking units are retired or are in the process of retiring, in compliance with the Peaker Rule. These resources currently occupy a portion of the north end of Ravenswood that will be used to host the Project's onshore components.

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References

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SECTION 10

ENVIRONMENTAL ASSESSMENT AND PERMIT ACQUISITION PLAN



Section 10 Table of Acronyms

ACHP	Advisory Council on Historic Preservation
ACP	Agency Communications Plan
ALJ	Administrative Law Judge
AMP	Alternative Monitoring Plan
APE	Area of Potential Effect
BOEM	Bureau of Ocean Energy Management
CAA	Clean Air Act
CECPN	Certificate of Environmental Compatibility and Public Need
CFR	Code of Federal Regulation
Clearinghouse	Military Aviation and Installation Assurance Siting Clearinghouse
CMP	Coastal Management Program
COP	Construction and Operations Plan
CPP	Coordinated Project Plan
CWA	Clean Water Act
CZMA	Coastal Zone Management Act
DLUR	Division of Land Use Regulation
DOD	U.S. Department of Defense
DWQ	Division of Water Quality
ECL	New York Environmental Conservation Law
EFH	Essential Fish Habitat
EIS	Environmental Impact Statement
EM&CP	Environmental Management and Construction Plan
EPA	Environmental Protection Agency
ESA	Endangered Species Act
FAA	Federal Aviation Administration

FAST-14	Fixing America's Surface Transportation Act, Title 41
FCP	Fisheries Communications Plan
FDR	Facility Design Report
FIN	FAST-41 Initiation Notice
FIR	Fabrication and Installation Report
FLIDAR	Floating Light Detection and Ranging
FPISC	Federal Permitting Improvement Steering Council
G&G	Geophysical and Geotechnical
HRG	High Resolution Geophysical
IHA	Incidental Harassment Authorization
ITP	Incidental Take Permit
Lease Area	Lease Area OCS-A 0538
LNМ	Local Notice to Mariners
LOA	Letter of Authorization
LOC	Letter of Concurrence
MBTA	Migratory Bird Treaty Act
metocean	Meteorological and/or Oceanographic
MMPA	Marine Mammal Protection Act
MSFCMA	Magnuson-Stevens Fishery Conservation and Management Act
[REDACTED]	[REDACTED]
Navy	Department of the Navy
NDAА	National Defense Authorization Act
NEPA	National Environmental Policy Act
NGO	Non-governmental Organization
NHPA	National Historic Preservation Act
NJDEP	New Jersey Department of Environmental Protection

NMFS	National Marine Fisheries Service
NMFS 2021	June 29, 2021 Letter of Concurrence from NMFS to BOEM
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
NWP	Nationwide Permit
NYCRR	New York Codes, Rules and Regulation
NYSDEC	New York State Department of Environmental Conservation
NYSDOS	New York Department of State
NYSOGS	New York State Office of General Services
NYSOPRHP	New York State Office of Parks, Recreation, and Historic Preservation
OCS	Outer Continental Shelf
PATON	Private Aids to Navigation
PEIS	Programmatic Environmental Impact Statement
PV	Plan View
QMA	Qualified Marine Archaeologist
QRX1	Queensboro Renewable Express 1
ROD	Record Of Decision
SAP	Site Assessment Plan
SHPO	State Historic Preservation Office
SPDES	State Pollutant Discharge Elimination System

Section 10 Table of Acronyms Continued

SPI	Sediment Profile Imagery
SSAP	Sediment Sampling and Analysis Plan
SWPPP	Stormwater Pollution Prevention
TARA	Terrestrial Archaeological Resources Assessment
THPO	Tribal Historic Preservation Offices
Tribes	Tribal Nations and Tribal Organizations
U.S.C.	U.S. Code
USACE	U.S. Army Corps of Engineers
USCG	U.S. Coast Guard
USFWS	U.S. Fish and Wildlife Service
WQC	Water Quality Certification

10. ENVIRONMENTAL ASSESSMENT AND PERMIT ACQUISITION PLAN

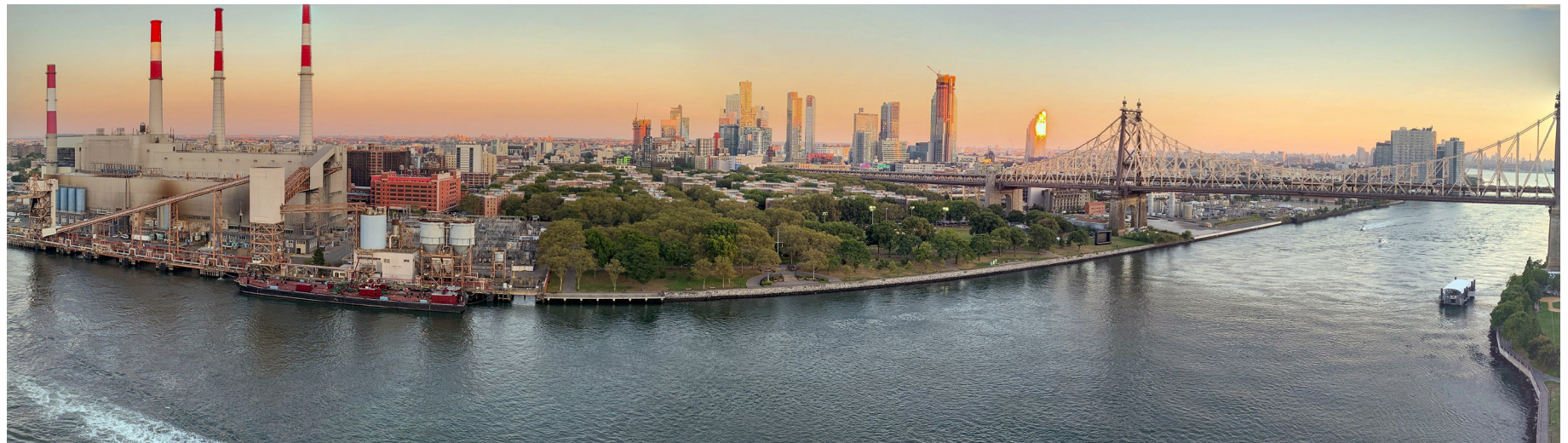
Attentive Energy is committed to continue engaging and maintaining a cooperative dialogue with all interested stakeholders during the permitting process and throughout the life of the Project.

Attentive Energy and its Sponsors, TotalEnergies and Rise, bring to the Project significant permitting expertise in New York, U.S., and global offshore wind markets. This experience instills in the Attentive Energy team an appreciation for the importance of a robust and inclusive permitting approach that includes stakeholder engagement as a priority. As such, Attentive Energy has developed a permitting approach for the Project that implements — and prioritizes — stakeholder engagement.

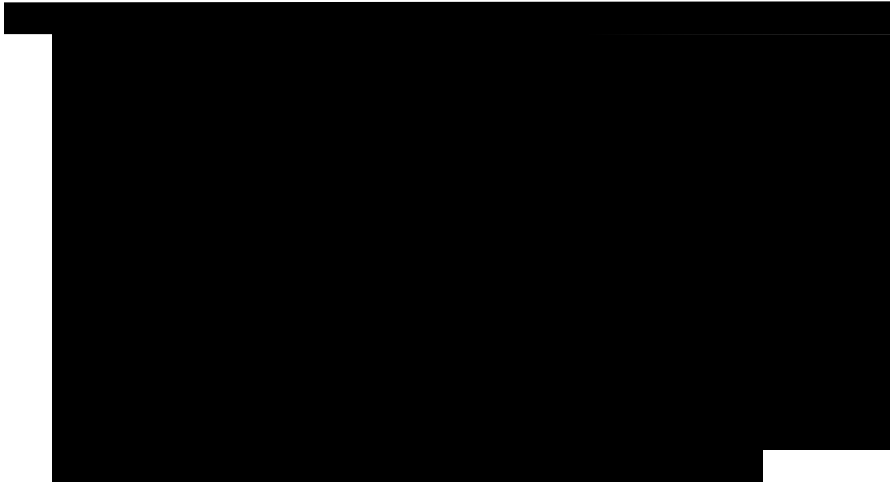
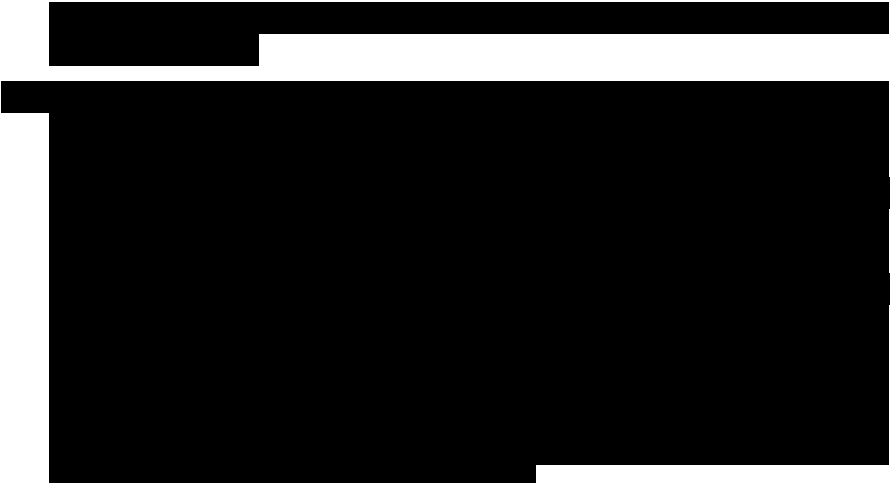
Since 2018, well before being awarded a lease in 2022, Attentive Energy has been engaging with regulatory agencies, Tribes, fishing communities, environmental NGOs, members of the public, and other stakeholders. Similarly, Rise began engaging with stakeholders in 2020. This engagement has already proven valuable in the permitting process by helping identify and address, to the best degree practicable, stakeholder concerns in

survey plans, permit applications and approval requests, and related best practices. This engagement has also been useful in informing other aspects of Project development, such as routing, that ultimately feed into the permitting process.

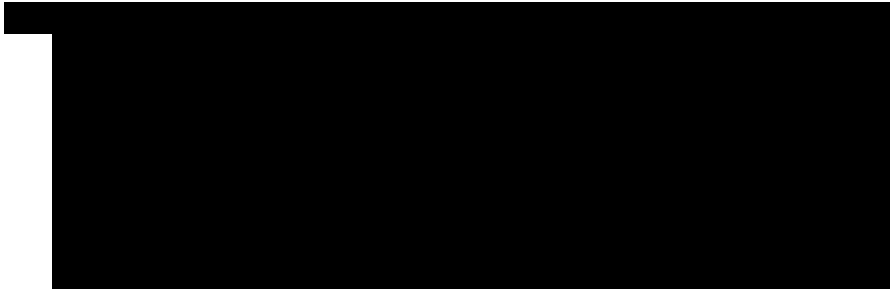
By proactively considering stakeholder input, Attentive Energy and Rise have already obtained multiple permits and approvals needed to execute multiple survey campaigns, both for the overall Project and specific to the transmission facility. Examples of Attentive Energy’s and Rise’s successful permitting-related efforts that have been based on stakeholder engagement include the following:



View from the East River



Attentive Energy's Project is unmatched in terms of permitting maturity: it has already submitted both its SAP and Article VII application in support of the Project.



The information learned during early engagements will also be useful when Attentive Energy is responding to comments from agencies, Tribes, the public, and other stakeholders during Tribal pre-survey meetings, agency consultations/reviews, public hearings during the Article VII process, and public meetings during the NEPA process. By proactively identifying and addressing, where possible, resources or other issues of concern, Attentive Energy will avoid potential delays to permitting approval timelines.

The following sections describe the environmental assessment and permit acquisition plan for the Project, including the permits, authorizations, licenses, and environmental reviews required for the Project and, where appropriate, steps for stakeholder engagement.

Environmental Assessment and Permit Acquisition Plan

Attentive Energy has extensive experience permitting energy projects in New York City and New York State, as well as those under the jurisdiction of BOEM, USACE, and NJDEP, among other Federal and State agencies.

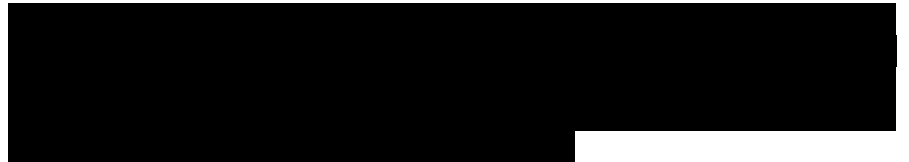
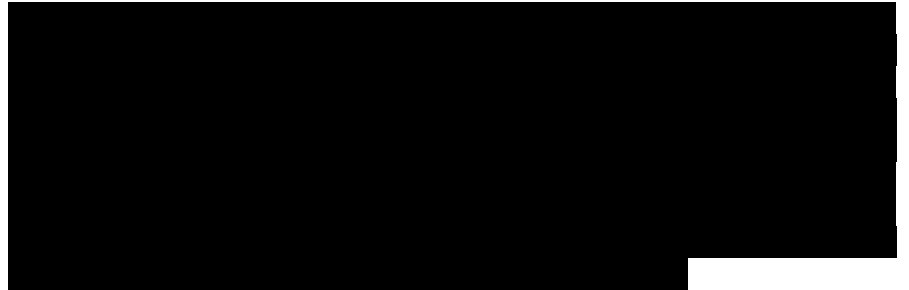
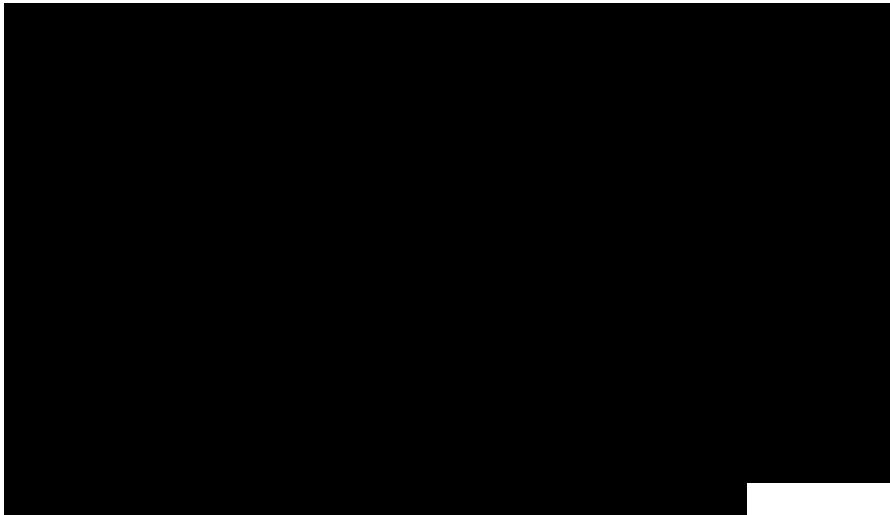
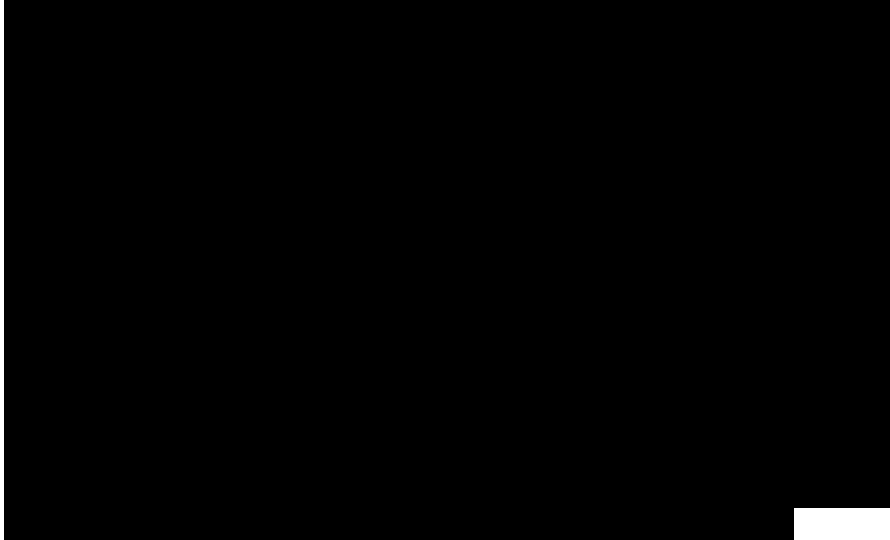


Table 10-1 Federal, State, and Local Permits, Authorizations, Licenses, and Reviews for the Project

Permit, Authorization, License, or Review; Statutory or Regulatory Basis	Agency	Description	Start/End Dates
FEDERAL PERMITS, AUTHORIZATIONS, LICENSES, AND REVIEWS			
<p>ACP, NATCP, and FCP OCS Lands Act (43 U.S.C. 1337) Commercial Lease</p>	BOEM	<p>As part of lease stipulations for the Lease Area, communications plans must be developed for the Project to describe communication strategies with agencies (ACP), Tribes (NATCP), and fisheries (FCP), in addition to specific methods for engagement and the facilitation and dissemination of shared information.</p> <p>The ACP, NATCP, and FCP must be made publicly available and must include the lessee’s primary point of contact. The communication plans must be updated from time to time in response to any feedback obtained through engagement with fishing communities, Tribes, or other parties or through consultation with BOEM.</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	<p>[REDACTED]</p> <p>[REDACTED]</p>
<p>SAP OCS Lands Act (43 U.S.C. 1337); Energy Policy Act of 2005; BOEM Final Rule on Renewable Energy Development on the OCS (30 CFR Part 585)</p>	BOEM	<p>A SAP is required prior to conducting activities to characterize a site to support the installation of meteorological towers and meteorological buoys, collection of meteorological and oceanographic data, or testing of technologies that include the installation of bottom-founded facilities. A SAP will be required for the deployment of a metocean buoy to support the Project.</p> <p>A SAP describes the initial activities, including studies or surveys, to characterize a site. The information provided in the SAP is used by BOEM to complete their review of the Project under the NEPA and other laws and regulations. BOEM will review the SAP to determine if the <i>Commercial and Research Wind Lease and Grant Issuance and Site Assessment Activities on the Atlantic Outer Continental Shelf of the New York Bight, Final Environmental Assessment</i> (BOEM 2021) adequately considers the environmental consequences proposed in the SAP. If the SAP area and activities are adequately covered, no further NEPA analysis would be required. If the EA analysis (BOEM 2021) is determined to be inadequate, BOEM would prepare an additional NEPA analysis.</p> <p>[REDACTED]</p>	<p>[REDACTED]</p> <p>[REDACTED]</p>
<p>COP OCS Lands Act (43 U.S.C. 1337); Energy Policy Act of 2005; BOEM Final Rule on Renewable Energy Development on the OCS (30 CFR Part 585)</p>	BOEM	<p>An approved COP from BOEM is required prior the construction and operations of an offshore wind project. A COP will be required for the Project.</p> <p>The COP must describe all proposed Project facilities and all construction, operations and maintenance, and decommissioning for facilities. During the COP review, BOEM must comply with its obligations under the NEPA, NHPA, MSFCMA, MBTA, CAA, CWA, MMPA, and ESA. Thus, BOEM coordinates and consults with numerous other Federal agencies, including NMFS, USFWS, USACE, EPA, and the USCG. When appropriate, BOEM also coordinates with states under the CZMA to ensure that a project is consistent with state-level coastal zone management plans.</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	<p>[REDACTED]</p> <p>[REDACTED]</p>

Permit, Authorization, License, or Review; Statutory or Regulatory Basis	Agency	Description	Start/End Dates
FEDERAL PERMITS, AUTHORIZATIONS, LICENSES, AND REVIEWS			
FAST-41 Permitting Dashboard 42 U.S.C. Section 4370m et seq.	FPISC	<p>FAST-41 establishes a process for coordinating environmental reviews, including reviews pursuant to NEPA, and other authorizations needed to construct a project. For projects that are covered under FAST-41, Federal agencies are required to collaborate and establish and maintain permitting timetables. Participating in the FAST-41 process is voluntary. Although not required, Attentive Energy is planning to apply for coverage under FAST-41 at the time the COP is submitted to BOEM for review.</p> <p>To initiate the process of becoming a covered project, the project applicant submits a FIN to the FPISC and facilitating (or lead) agency. If it is determined the project is covered under FAST-41, the FPISC will add the project to the online Permitting Dashboard, and the facilitating (or lead) agency will identify and invite relevant Federal agencies to participate in the process as cooperating agencies. The facilitating (or lead) agency will establish a CPP for all needed Federal environmental reviews and authorizations for construction and operations of the Project. The CPP must receive concurrence from cooperating agencies. The CPP will be added to the Permitting Dashboard, which is available to the public online, and the FPISC helps agencies administer the permitting process.</p>	<div style="background-color: black; width: 100px; height: 15px; margin-bottom: 5px;"></div> <div style="background-color: black; width: 100px; height: 15px;"></div>
ESA Consultation for Surveys OCS Lands Act Commercial Lease; 16 U.S.C. Sections 1531-1544; 50 CFR §§ 402	BOEM, NOAA, NMFS, USFWS	<p>Prior to designing and conducting any Project-related surveys that may interact with ESA-listed species, consultation with BOEM, NMFS, and USFWS is required.</p> <p>BOEM has completed an informal programmatic consultation with NMFS under Section 7 of the ESA for site characterization and assessment activities, including HRG and geotechnical surveys and deployment, operation and retrieval of metocean buoys. The lessee should implement mitigation, monitoring and reporting conditions that resulted from this consultation, as outlined in the June 29, 2021 LOC from NMFS to BOEM (NMFS 2021).</p> <div style="background-color: black; width: 100%; height: 15px; margin-bottom: 5px;"></div> <div style="background-color: black; width: 100%; height: 15px; margin-bottom: 5px;"></div> <div style="background-color: black; width: 100%; height: 15px; margin-bottom: 5px;"></div> <div style="background-color: black; width: 100%; height: 15px;"></div>	<div style="background-color: black; width: 100px; height: 15px; margin-bottom: 5px;"></div> <div style="background-color: black; width: 100px; height: 15px;"></div>
NHPA Section 106 Consultation NHPA 16 U.S.C. § 470; 36 CFR §§ 60, 800	BOEM, ACHP	<p>Section 106 of the NHPA requires Federal agencies to consider the effects of Federal projects or actions (i.e., Federal funds, licenses, approvals, or permits) on historic properties. If a Federal project or action has the potential to affect a historic property, a Section 106 review is required. Section 106 consultation and review will be required for the Project.</p> <p>During the Section 106 review process, the lead Federal agency (i.e., BOEM) must invite parties, which may include ACHP, SHPO, THPO, local government and other stakeholders, to engage in consultation and support the review of potential undertakings.</p> <div style="background-color: black; width: 100%; height: 15px; margin-bottom: 5px;"></div> <div style="background-color: black; width: 100%; height: 15px;"></div>	<div style="background-color: black; width: 100px; height: 15px; margin-bottom: 5px;"></div> <div style="background-color: black; width: 100px; height: 15px;"></div>

Permit, Authorization, License, or Review; Statutory or Regulatory Basis	Agency	Description	Start/End Dates
FEDERAL PERMITS, AUTHORIZATIONS, LICENSES, AND REVIEWS			
<p>Section 10 Permit for Structures in Navigable Waters of the U.S. Section 10 of the Rivers and Harbors Act (33 U.S.C. § 403); 33 CFR §§ 320 et seq.</p>	<p>USACE – New York and/or Philadelphia Districts</p>	<p>A Section 10 permit from the USACE is required for the installation or construction of structures (e.g., WTGs, OSS, and their associated foundations), placement of scour protection, and installation of cables and cable protection in or over navigable waters; excavation, dredging or deposition of material in navigable waters; or any obstruction or alteration in navigable waters. A Section 10 permit will be required for the Project.</p> <p>The Section 10 permit is aimed at ensuring navigable waters of the U.S. remain navigable. Under Section 10, certain activities in navigable waters with only minimal adverse impacts on the environment may be authorized under a NWP. If a project had more than minimal individual or cumulative impacts, an Individual (or standard) Permit would be issued.</p>	<p>[REDACTED]</p>
<p>Section 404 Dredge Permit in Waters of the U.S. Section 404 of the CWA (33 U.S.C. § 1344); 33 CFR §§ 320 et seq.</p>	<p>USACE – New York and/or Philadelphia Districts</p>	<p>A Section 404 permit is required from the USACE prior to the discharge of dredged or fill material into waters of the U.S. A Section 404 permit from the USACE will be required for the installation or construction of Project-related structures (e.g., WTGs, OSS, and their associated foundations) and cables.</p> <p>Under Section 404 (and Section 10), NWP #19 may be used to authorize minor dredging, which is defined as no more than 25 cubic yards below the ordinary or mean high water mark from navigable waters of the U.S. A NWP #6 permit may be used to authorize surveys in water under USACE jurisdiction that involve disturbance of the seafloor and result in the discharge of dredged materials or fill into waters of the U.S. These surveys may include soil surveys, sampling, wetlands delineations, and historic resources surveys, in addition to the construction of temporary pads that would discharge no more than 0.10 acre into waters of the U.S. NWP #6 outlines specific requirements for restoring disturbed areas to pre-construction conditions, such as through backfilling trenched areas with topsoil.</p> <p>If a project had more than minimal individual or cumulative impacts, an Individual (or standard) Permit would be issued.</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	<p>[REDACTED]</p>
<p>Section 408 Request for Activities in a Civil Works Project Section 14 of the Rivers and Harbors Act (33 U.S.C. § 408); 33 CFR §§ 320 et seq.</p>	<p>USACE – New York and/or Philadelphia Districts</p>	<p>A Section 408 request is required for any activity that may alter a levee, dam, navigable waterway, easement, or other civil works project that is managed and maintained by the USACE. A Section 408 permit is therefore likely required for the Project.</p> <p>USACE will grant permission under Section 408 if the alteration to a civil works project would not injure the public interest nor impair the usefulness of the civil works project. If an activity would have more than minimal impacts, an Individual Permit would be required. Under Section 14, certain activities with only minimal adverse impacts on the environment may be authorized under an NWP. If a project had more than minimal individual or cumulative impacts, an Individual (or standard) Permit would be issued.</p>	<p>[REDACTED]</p>

Permit, Authorization, License, or Review; Statutory or Regulatory Basis	Agency	Description	Start/End Dates
FEDERAL PERMITS, AUTHORIZATIONS, LICENSES, AND REVIEWS			
LNM 33 U.S.C. § 1221; 33 CFR § 66	USCG, Sector Southeast New England, Sector New York, Sector Long Island Sound, and First District	LNMs are required to USCG for any in-water activities that result in changes to or deficiencies in aids to navigation (maintained, operated, or under the authority of USCG) or other activities in waterways that may interest mariners. All marine surveys completed for the Project will require the submission of LNMs. LNMs are published by the USCG to inform ocean users of any changes in aids to navigation or other information that could affect the safety of marine navigation. LNMs are published once every week, or more if warranted.	[REDACTED]
PATON 49 U.S.C. § 44718; 33 CFR § 66	USCG, Sector Southeast New England, Sector New York, Sector Long Island Sound, and First District	Permits must be obtained from USCG for any privately-owned marine aids to navigation, or PATONS, that are maintained by anyone other than USCG. It is anticipated that PATONS may be required for the installation of Project-related buoys, OSS, and WTGs, which would require lighting and marking for navigational purposes.	[REDACTED]
Section 7 Consultation under the ESA; ITP; Biological Opinion 16 U.S.C. Sections 1531-1544; 50 CFR §§ 13, 17, 402; 50 CFR §§ 10, 22; 50 CFR Section 222.307	USFWS Northeast Region, Region 5	Section 7 of the ESA requires Federal agencies to confirm prior to a Federal action (e.g., Federal project, permit, or funding) the action is not likely to jeopardize the continued existence of any ESA-listed species or result in the destruction or adverse modification to designated critical habitat. Section 7 consultation will be required for the Project.	[REDACTED]
IHA/LOA MMPA, 16 U.S.C. §§ 1361 <i>et seq.</i> ; 50 CFR Part 216	NOAA NMFS	The MMPA requires an incidental take authorization for the incidental “take” (i.e., harass, hunt, capture, or kill) of any marine mammal. Consultation with NMFS is necessary regarding any marine mammal concerns and to determine whether an IHA or LOA would apply to the activity. An IHA would be appropriate if the action has the potential to result in injury or disturbance (i.e., harassment). A LOA would be appropriate if the action has the potential to result in a take over a period of multiple years. Marine survey activities for the Project would require consultation with NMFS and the development of an IHA or LOA.	[REDACTED]
AMP LOC issued by NMFS to BOEM on June 29, 2021, pursuant to Section 7 of the ESA; OCS Lands Act (43 U.S.C. 1337)	BOEM	An AMP is required for any conducting geophysical surveys in conditions with reduced visibility or at night. An AMP will be required for Project-related geophysical survey activities that would operate during these conditions. An AMP must be submitted to BOEM that describes the types of monitoring that will be implemented during nighttime operations or low-visibility conditions. The AMP should incorporate best management practices outlined in the IHA or LOA from NMFS, including clearance and shutdown zone(s) that will be implemented during nighttime survey activities and during other survey periods when typical visual observations may be impaired, such as during bad weather.	[REDACTED]

Permit, Authorization, License, or Review; Statutory or Regulatory Basis	Agency	Description	Start/End Dates
FEDERAL PERMITS, AUTHORIZATIONS, LICENSES, AND REVIEWS			
Section 305 EFH Consultation MSFCMA, 16 U.S.C. §§ 1801 et seq.; 50 CFR § 600	NOAA NMFS	Section 305(b)(2) of the MSFCMA requires Federal agencies to consult with NMFS when they authorize, fund, or undertake actions that may adversely impact EFH. If the proposed action may adversely affect EFH resources, formal consultation is required. EFH consultation will be required for the Project. EFH consultation guides Federal agencies on measures, or Conservation Recommendations, for avoiding or minimizing adverse effects to EFH during construction and other development activities. During the EIS process, BOEM, as lead Federal agency, will consult with NMFS on the proposed action regarding the Project. NMFS will review the action and potential effects of the action in EFH resources that may be present in the proposed action area; BOEM provides this information to NMFS as an EFH assessment. Based on their review of the EFH assessment, NMFS may provide BOEM with EFH Conservation Recommendations.	██████████ ██████████
Notice of Proposed Construction or Alteration; FAA Determination 49 U.S.C. § 106; 14 CFR § 77.9	FAA	A notice must be submitted to the FAA, through a completed FAA Form 7460-1, Notice of Proposed Construction or Alteration, for the proposed construction of a structure that is more than 200 ft above ground level or within a specified distance of airports. Notice of Proposed Construction or Alteration will be required for the Project. The FAA uses the information provided in the notice to conduct an aeronautical study to determine any potential interference with navigable airspace. Based on the completed aeronautical study, the FAA will issue a Determination of No Hazard, Determination of No Hazard with Conditions, or Determination of Hazard.	██████████ ██████████
Clearinghouse Consultation and Review Public Law 114-92, NDAA of 2016, Amendment to § 358, FY11 NDAA ; 32 CFR § 211	U.S. DOD, Clearinghouse and Department of the Navy	Consultation with DOD is required to determine any potential impacts on DOD facilities or operations from offshore WTGs or cable siting. As such, consultation with DOD will be required for the Project. During consultation, the DOD Clearinghouse will help facilitate reviews and related communications, and the Navy cable liaison official will provide guidance on potential export cable routes across sensitive military areas. The DOD may also review, in coordination with the FAA, proposed Project structures located within FAA's jurisdiction for potential obstruction and radar interference.	██████████ ██████████
OCS Air Quality Permit and General Conformity Determination Clean Air Act 42 U.S.C. §§ 7401 et seq.; 40 CFR § 60	EPA, Region 1 and Region 2, Air Programs Branch	An OCS Air Permit must be received from the EPA prior to the commencement of activities that would result in an increase in air emissions. Project-related construction activities will require an OCS Air Quality Permit. The OCS Air Permit will identify conditions, including air pollution control requirements, emission limits, and offsets, that must be adhered to during the permitted activities.	██████████ ██████████
Decommissioning Application 30 CFR Section 585.900 et seq.	BOEM	A decommissioning application is required for offshore wind leases with BOEM. A decommissioning application will be required for the Project. The decommissioning application, which will supersede the decommissioning plan in the COP, must describe the facilities and other installations proposed for removal or proposed as leave in place and a decommissioning schedule. The application should describe potential impacts to resources from decommissioning activities to help inform BOEM's review pursuant to NEPA and other Federal laws.	██████████ ██████████

Permit, Authorization, License, or Review; Statutory or Regulatory Basis	Agency	Description	Start/End Dates
NEW YORK STATE PERMITS, AUTHORIZATIONS, LICENSES, AND REVIEWS			
CECPN under Article VII New York State Public Service Law, Article VII; 16 NYCRR §§ 85-88	NYSPSC	A CECPN is required from NYSPSC under Article VII for the siting of major electric transmission facilities in the New York State. The transmission facilities for the Project therefore require a CECPN. The Article VII process is overseen by NYSDPS, which serves as staff to the NYSPSC. NYSDPS participates in all Article VII proceedings to represent to public interest. The Article VII process also encompasses the primary State environmental review for major electric transmission facilities. NYSDEC, NYSDOS, and NYSOPRHP participate in these environmental reviews. Any facility that is subject to Article VII cannot also be required to receive an approval or permit from a municipal agency for the construction or operation of a facility unless required by the NYSPSC. [REDACTED]	[REDACTED] [REDACTED]
EM&CP New York State Public Service Law, Article VII; 16 NYCRR §§ 85-88	NYSPSC	Pursuant to Article VII, an EM&CP must be prepared to describe proposed clearing activities in rights-of-ways. Because a CECPN is being pursued for Project-related transmission facilities, an EM&CP will be required. Erosion and sedimentation control plans must be developed as part of the EM&CP, in addition to the identification of measures to protect wetlands and streams to the greatest extent possible within the right-of-way limits.	[REDACTED] [REDACTED]
Clean Water Act Section 401 Certification Clean Water Act, Section 401; New York ECL Article 15, Title 5; 6 NYCRR Part 608	NYSDEC, NYSPSC, and other State agencies, as appropriate)	A Section 401 water quality certification is required prior to issuing a Federal permit or license for any activity that may result in discharge into waters of the U.S. The Project will require a certification from NYSDEC that confirms the Project will comply with State water quality standards. When a project requires a CECPN, the NYSPSC will issue the Section 401 WQC as part of the Article VII process. [REDACTED] [REDACTED] [REDACTED]	[REDACTED] [REDACTED]
SPDES Construction Stormwater Permit Clean Water Act Section 316(b); 40 CFR § 122, 125, 33 U.S.C. §§ 1251 et seq.; CWA Section 402 ECL Article 17, Title 8; 6 NYCRR § 750-1.21	NYSDEC	Section 402 of the CWA requires a permit for stormwater discharges from construction activities that disturb over 1 acre of land. A SPDES permit will be required for construction of the Project. In New York, the EPA has delegated authority to the State to issue NPDES permits, except for permits on tribal lands or for specific Federal facilities, under the SPDES program.	[REDACTED] [REDACTED]
Environmental Review for Species of Special Concern; ITP ECL Article 11, Title 5; 6 NYCRR Part 182	NYSDEC	If an activity would likely cause direct harm to a listed species (endangered or threatened species or species of special concern) or if the activity would occur in occupied habitat and result in adverse modification of that habitat, an ITP is required from the NYSDEC. Prior to applying for an ITP, a request can be made to the NYSDEC to review the activity to determine if it is likely to result in the take or taking of a listed species and would therefore require an ITP. The Project would require NYSDEC's environmental review of activities. [REDACTED] [REDACTED]	[REDACTED] [REDACTED]

Permit, Authorization, License, or Review; Statutory or Regulatory Basis	Agency	Description	Start/End Dates
NEW YORK STATE PERMITS, AUTHORIZATIONS, LICENSES, AND REVIEWS			
<p>Consultation under Section 106 of the NHPA, Section 14.09 of the New York State Historic Preservation Act of 1980, and Section 233 of the State Education Law (submerged archaeological resources) NHPA, 54 U.S.C. § 300101; 16 U.S.C. § 470; 6 NYCRR Part 617</p>	NYSOPRHP	<p>Under New York regulations, an applicant for an Article VII CECPN is required to consult with the NYSOPRHP to evaluate the potential of the Project to affect properties listed on or eligible for listing on the New York State Register of Historic Places, or NRHP, or the potential to affect tribal interests. .</p> <p>The NYSOPRHP is responsible for environmental reviews to ensure effects on properties listed or eligible for listing on the NRHP are considered and avoided or mitigated during the project planning process. In their review, the NYSOPRHP will identify any additional required studies that may be needed to identify NRHP sites, State register sites, and other sensitive historical, cultural, and traditional sites within an APE of a Project. Archaeological studies may also be required to identify potentially significant sites. The NYSOPRHP will also comment on the Project during the NEPA review, and recommendations from the NYSOPRHP will be implemented by the lead agency (BOEM).</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	<p>[REDACTED]</p> <p>[REDACTED]</p>
<p>Application for Use of State Submerged Land (easement for cables) New York Public Lands Law Article 2, Section 3, Subdivision 2; 9 NYCRR §§ 270 and 271</p>	NYSOGS, Bureau of Land Management	<p>Permission, in the form of a license, easement or permit, is required from NYSOGS for the use of State submerged lands. The Project would require an easement for cables that would traverse state-owned submerged lands.</p>	<p>[REDACTED]</p> <p>[REDACTED]</p>
<p>Coastal Zone Management Program Federal Consistency Certification CZMA, 16 U.S.C. § 1451; State Executive Law Article 42; 15 CFR §§ 923, 930; 6 NYCRR § 617; 19 NYCRR § 600</p>	NYSDOS, Division of Coastal Resources	<p>Per the CZMA, Federal actions (e.g., licenses, permits) that are likely to affect land or water uses or coastal zone resources must be consistent with the State's enforceable coastal policies. In New York, these State policies include the New York Coastal Management Program and Local Waterfront Revitalization Program. Project activities in or near State coastal zones that require a Federal permit will require a CZMA consistency review.</p> <p>NYSDOS is responsible for reviewing Federal actions for consistency with the State's policies. NYSDOS is also responsible for reviewing State actions (e.g., issuance of permits). NYSDOS review of a project would satisfy the requirements of both the Federal and State consistency reviews. If the permitted action is fully consistent with these enforceable policies a consistency certification would be issued.</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	<p>[REDACTED]</p> <p>[REDACTED]</p>

Permit, Authorization, License, or Review; Statutory or Regulatory Basis	Agency	Description	Start/End Dates
NEW JERSEY STATE PERMITS, AUTHORIZATIONS, LICENSES, AND REVIEWS			
Coastal Zone Management Program Consistency Certification CZMA, 16 U.S.C. § 1456; New Jersey Coastal Zone Management Rules (N.J.A.C. 7:7)	NJDEP Office of Policy and Coastal Management	Federal actions within New Jersey’s coastal zone must be reviewed for consistency with the State’s enforceable coastal policies. Project activities in or near State coastal zones that require a Federal permit will require a CZMA consistency review. In New Jersey, the rules for the use, development, and protection of coastal resources are enforced through the CMP. The CMP comprises different offices within the NJDEP, which are responsible for enforcing State policies for coastal uses and resources pursuant to requirements of the CZMA. Consistency of Federal actions that require a coastal permit from the State can be demonstrated by receipt of an approved coastal permit from the State.	██████ ██████
In-Water Waterfront Development Permit Waterfront Development Act (N.J.S.A. 12:5-3); New Jersey Coastal Zone Management Rules (N.J.A.C. 7:7)	NJDEP DLUR	New Jersey’s Waterfront Development law regulates activities in and along tidal waterbodies. A Waterfront Development Permit is required for the construction of the Project’s export cable route through New Jersey waters.	██████ ██████
Section 401 Water Quality Certificate CWA, Section 401, New Jersey Water Pollution Control Act (N.J.S.A. 58:10A); New Jersey Coastal Zone Management Rules (N.J.A.C. 7:7)	NJDEP DWQ	A Section 401 water quality certification is required prior to issuing a Federal permit or license for any activity that may result in discharge into waters of the U.S. The Project will require a certification from NJDEP DWQ that confirms the Project will comply with State water quality standards.	██████ ██████
Tidelands Utility License Tidelands Act (N.J.S.A. 12:3-1 et seq.)	NJDEP, Bureau of Tidelands Management	A Tidelands License, which serves as a lease agreement, is required for the use or occupation of New Jersey owned tidelands. The portion of the Project’s export cable route that crosses New Jersey waters would require a Tidelands License. A Tidelands Utility License can be acquired from the NJDEP Bureau of Tidelands Management for the installation of structures, including pipes and cable lines, that cross over or under State tidelands.	██████ ██████
Consultation under Section 106 of the NHPA (54 U.S.C. § 200101; 16 U.S.C § 470)	NJ SHPO	The portions of the export cable route located in New Jersey waters must undergo a Historic and Archaeological Review under Section 106 of the NHPA. An effects determination is required before the NJDEP can issue permits for the installation of the export cable in New Jersey waters. The NJ SHPO is responsible for environmental reviews to ensure effects on properties listed or eligible for listing on the NRHP are considered and avoided or mitigated during the project planning process. As part of this review, the NJ SHPO will identify any additional required studies that may be needed to identify NRHP sites, State register sites, and other sensitive historical, cultural, and traditional sites within an APE of a Project. The NJ SHPO will also comment on the project during the NEPA review, and recommendations from the NJ SHPO will be implemented by BOEM.	██████ ██████
LOCAL PERMITS, AUTHORIZATIONS, LICENSES, AND REVIEWS			
Local Approvals	Local agencies, municipalities, and property owners	Various local approvals will be required for the Project, which will be obtained in the ordinary course of development and construction. Pursuant to Article VII, the requirement to apply for certain local permits and approvals is waived, provided the applicant complies with the substantive portions of local law pursuant to New York Public Service Law, Section 130.	██████ ██████

Timeline

Attentive Energy has developed an approach and timeline for obtaining all necessary Federal, State, and local permits and approvals and meeting all permit- and regulatory-related requirements and lease stipulations for the Project. The following sections summarize the required permits or approvals that would be necessary for different Project-related activities and describe Attentive Energy’s approach to seeking and receiving these permits and approvals.

The standard BOEM leasing process from initiation (RFI/Call) to operation is illustrated in Figure 10-1. Additional information for Project-related permits and approvals is provided in Attachment 10-C, Project Permitting and Approval Process by Project Phase. The entire Project schedule is described in Section 12.

Project Approval Assessment

Attentive Energy has identified the required permits and approvals for the Project and classified them by the following six Project phases, which represent the segments of the permitting process: Lease Execution, Site Assessment and Characterization, Pre-Construction Permits and Approvals, Construction, Operations and Maintenance, and Decommissioning.

The following sections define the Project phases and describe by phase the Project approval process, including required permits and approvals, milestone dates (i.e., the date by which the permit or approval must be received), and a status of the request or application. Where the permit or approval has not yet been received, a summary is provided of the plan for successfully meeting the milestone.

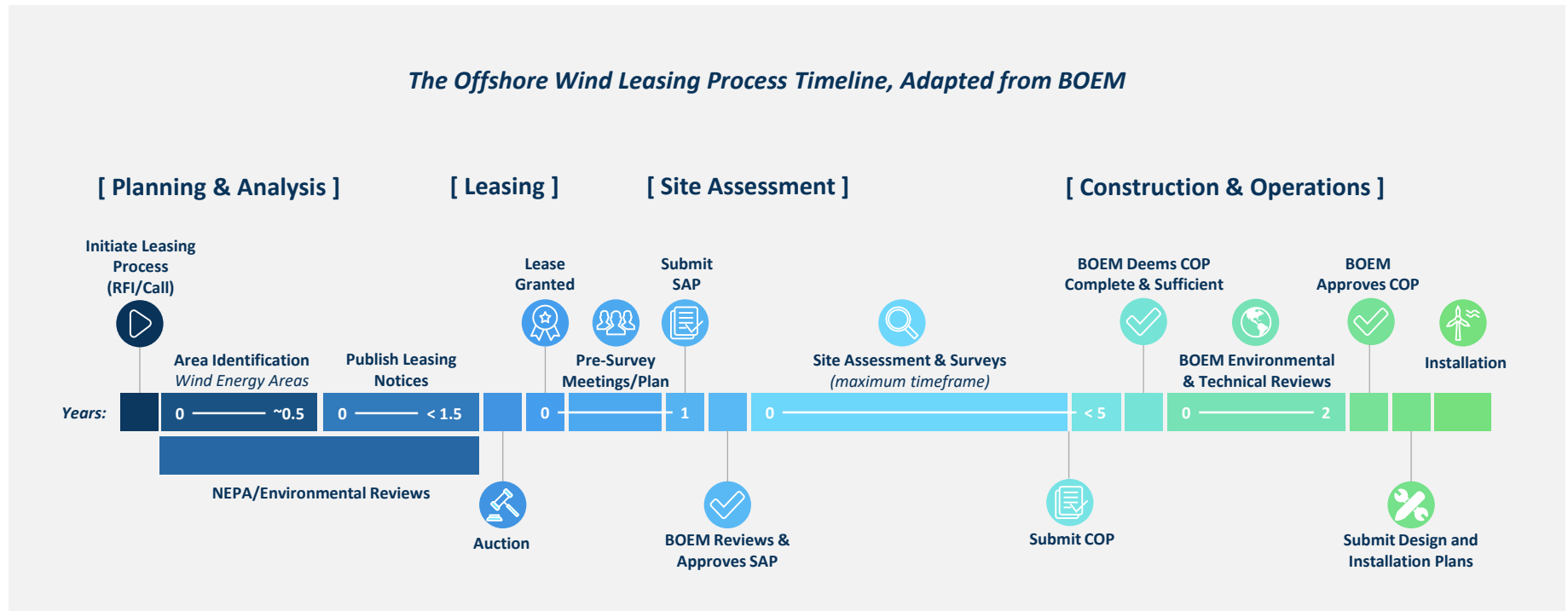


Figure 10-1 Standard BOEM Leasing Process

Phase 1 – Lease Execution

The Lease Execution phase of the Project began with the lease execution for OCS-A 0538 (executed on April 28, 2022, with an effective date of May 1, 2022) and represents the early planning stage of the Project permitting and approval process. During this phase, Attentive Energy has developed documents to meet lease stipulations, including the Agency, [REDACTED] Fisheries Communications Plans, which will guide the activities identified in subsequent Project phases. Additional details on the permit-related requirements and activities during the Lease Execution phase are summarized herein.

Agency Communications Plan (Ongoing; First Version Published)

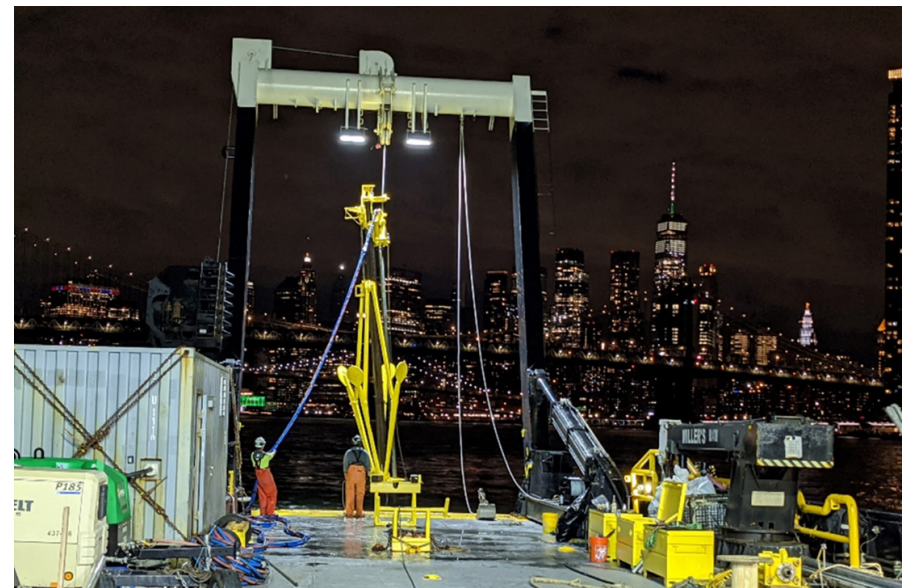
Per lease stipulation 3.1.2.3 of Addendum C, Attentive Energy must within 120 days of lease execution (i.e., by August 26, 2022) develop and distribute to BOEM an ACP for review and comment. This lease stipulation also requires Attentive Energy to host a meeting with interested agencies within the 120-day period and make the ACP publicly available. Attentive Energy's ACP is provided as Attachment 10-D.

On August 22, 2022, Attentive Energy shared a draft ACP with Federal and State agencies with authority related to the Project. Two meetings were held with agencies on August 25 and 26, 2022 to introduce and solicit input on the ACP. Following these meetings, Attentive Energy developed a revised version of the ACP that incorporated comments received from agencies and through subsequent coordination. The ACP was published on the Project website (www.attentiveenergy.com) on October 14, 2022. Per the lease stipulation, Attentive Energy will continue to update and refine the publicly available ACP based on input received from agencies and other stakeholders.

Fisheries Communications Plan (Ongoing; First Version Published)

Lease stipulation 3.1.2.1 of Addendum C requires a FCP to be developed and made publicly available within 120 days of lease execution (i.e., by

August 26, 2022). On August 23, 2022, Attentive Energy shared with BOEM a FCP, which was also made available on the Project website (www.attentiveenergy.com). Per the lease stipulation, Attentive Energy will continue to update and refine the FCP based on input received from fishing communities and representatives, in addition to agencies and other stakeholders. The most current version of the FCP will be available to the public through the Project website.



View of the East River

Phase 2 – Site Assessment and Characterization¹

The Site Assessment and Characterization phase of the Project includes the planning, permitting, and execution of surveys to characterize the Lease Area, onshore areas, near-shore areas, and potential cable routes. During this Phase, Attentive Energy has been preparing survey plans and related permit applications and approval requests. Following the receipt of necessary approvals and permits, Attentive Energy has been executing surveys. Additional details on the permit-related requirements and activities during the Site Assessment and Characterization phase are summarized herein.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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[Redacted]

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Attentive Energy has retained a consultant to develop and manage the COP and all remaining surveys and studies.

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Sunset over Manhattan and Queens

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Phase 3 – Pre-Construction Permits and Approvals



East River view



Tour of Ravenswood

Article VII Application for a CECPN and Other New York State Permits and Approvals for Construction of the Project in New York State (In Progress)

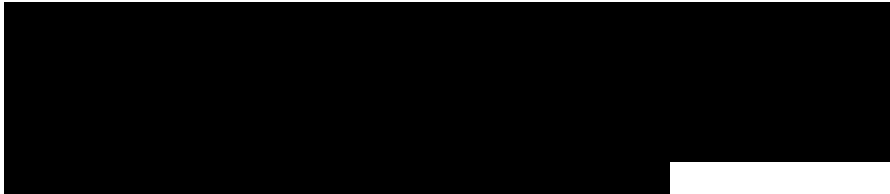
Project Sponsor Rise submitted an application to NYSPSC for a CECPN under Article VII for the installation of cables in New York State on December 2, 2022.

Prior to submittal of the application, Rise consulted with NYSDPS, which serves as staff to NYSPSC, and cooperating agencies. Information obtained through these consultations was used to guide technical studies included in the CECPN application. From November 16-25, 2022, Rise published a notice of filing of the Article VII application in 15 local newspapers covering the five boroughs of NYC.



After receiving the CECPN, Attentive Energy will prepare and submit the EM&CP and supporting information describing proposed construction methods, proposed pre-and post-construction activities, proposed environmental monitoring, and responses to the CECPN Ordering Clauses. NYSDPS staff will lead the review of the EM&CP submission and approval by the NYSPSC. Statutory parties to the Article VII process will be provided copies or notices of the EM&CP.

The Project will also require a Water Quality Certificate (WQC) in accordance with Section 401 of the Clean Water Act and Article 15, Tile 5 of the New York Environmental Conservation Law. A Section 401 WQC was requested from the NYSPSC with the Article VII application for the Project. The New York State Department of Environmental Conservation will also conduct a review of the Project for potential impacts to state species of special concern as part of the Article VII review process.



Ravenswood

New York Coastal Zone Management Consistency Determination (In Progress)

NYSDOS is responsible for administering the New York State CMP. Consistency review is the tool that enables the NYSDOS to manage coastal uses and resources while facilitating cooperation and coordination with involved State, Federal, and local agencies. The “consistency” of a proposed activity with the CMP is determined through coastal policies and procedures designed to enable appropriate economic development while advancing the protection and preservation of ecological, cultural, historic, recreational, and esthetic values. Rise submitted a coastal zone consistency statement application and request for a consistency determination with the Article VII application on December 2, 2022. NYSDOS will review the consistency statement and make a determination regarding consistency with the applicable CMP Policies and the NYC Local Waterfront Revitalization Program. The consistency determination for NYC Local Waterfront Revitalization Program Policies will be conducted by NYSDOS in coordination with the New York City Department of City Planning.

New York State Pollutant Discharge Elimination System Permit for Stormwater Discharges from Construction Activities (Not Started)

The EPA has delegated authority to issue NPDES permits under the CWA to the NYSDEC. Under New York State Environmental Conservation Law Article 17, stormwater discharge(s) from construction activities that disturb one-acre or more are required to be covered by the SPDES General Permit for Stormwater Discharges from Construction Activities (GP-0-20-001) or its successor issued by the NYSDEC.



Application for Use of State Submerged Land (easement for cables in New York State Waters (Not Started)

Under the New York Public Lands Law, title to the bed of numerous bodies of water is held in trust for the people of New York State under the jurisdiction of NYSOGS. Attentive Energy will request, as appropriate, a work/construction permit and a license, grant, and/or easement from the Bureau of Land Management within the New York State NYSOGS for the property rights and other authorizations to construct portions of the Project in, on or above state-owned lands now or formerly underwater. Rise held a pre-application consultation with the NYSOGS was on April 4, 2022 and will continue to consult with NYSOGS throughout the project development process.

Construction and Operations Plan and Other Federal Approvals (In Progress)

Attentive Energy is developing a COP that describes all proposed Project facilities and all construction, operations and maintenance, and decommissioning for Project facilities. The content of the COP is being guided by BOEM guidelines and regulations. The COP and the development and execution of COP related surveys and studies are also being guided by the draft NOI checklist released by BOEM in October 2022.

BOEM is the Lead Agency for the NEPA review of the COP. Other permits and approvals will occur simultaneous to the NEPA review, with the EIS serving as a fundamental document for several other required Federal agency reviews. It is expected that multiple Federal agencies (e.g., NMFS and USACE) will serve as cooperating agencies to BOEM during the NEPA process. Cooperating agencies will provide resource-specific reviews and help identify appropriate avoidance and mitigation measures and other permit conditions.



Section 106, EFH, and ESA consultation with appropriate Federal agencies (NMFS and USFWS), SHPOs, and THPOs will be initiated by BOEM. Attentive Energy will support consultation as necessary by providing the information to BOEM for their reviews and related decisions. Also, during the NEPA review, Attentive Energy will submit other appropriate applications to Federal agencies, including applications for an OCS air permit to EPA, a Letter of Authorization application to NMFS, a Section 408 application to

USACE, and a Section 404/Section 10 Joint Permit Application to USACE. Attentive Energy will also coordinate with FAA, USCG, and DOD on the issues in which they are interested. BOEM will initiate scoping, prepare the EIS, initiate public review of the draft EIS and other application documents, as appropriate, and issue decision documents.

[Redacted]

[Redacted]

[Redacted]

[Redacted]

Once the ROD is issued, Attentive Energy will submit to BOEM for review an FDR and FIR, which BOEM will review within 60 days of receipt. Attentive Energy will then file decommissioning financial assurance to BOEM, after which time BOEM will issue a decision to Attentive Energy for commercial operations. Other cooperating Federal agency decisions will be made as part of the NEPA process.

New Jersey State Permits and Approvals for Construction of the Project in State Waters (Not Started)

The cable corridor for the Project will cross and/or occupy New Jersey State waters. Attentive Energy will request a pre-application meeting with the NJDEP Office of Permit Coordination to confirm the permitting requirements for construction activities in New Jersey's coastal waters.

[Redacted]

[Redacted]

Local Ordinances (In Progress)

Any facility that is subject to Article VII approval cannot be required by a municipal agency to obtain a permit or approval for construction or operation unless expressly authorized by NYSPSC (New York Public Service Law, Section 130). Attentive Energy will comply with substantive provisions of local ordinances except those that would conflict except for those substantive provisions identified in the Article VII application as unreasonably restrictive in view of: 1) the existing technology; 2) factors of costs or economics; or 3) the needs of consumers. As part of the Article VII application, Rise has requested the NYSPSC waive the requirements of those local ordinances that have been found to be unreasonable restrictive.



The NYC Department of City Planning reviewed the survey plans for 2021 and 2022 surveys conducted along the export transmission cable route and determined survey activities were consistent with the policies and intent of the NYC Waterfront Revitalization Program.

Phase 4 – Construction

Construction of the Project is expected to occur over a 2-year period and includes construction of all offshore and onshore Project-related facilities and infrastructure. Construction of the Project will be completed in accordance with the COP and the Article VII CECPN and EM&CP. Prior to and throughout construction, Attentive Energy will submit LNMs to inform ocean users of any changes in aids to navigation or other information that could affect the safety of marine navigation. During construction, Attentive Energy will implement all avoidance, mitigation and monitoring measures, reporting requirements, conservation measures, and other requirements identified in issued permits, authorizations, licenses, and other decision documents.

Phase 5 – Operations and Maintenance

The operations and maintenance phase of the Project includes the operations and maintenance of Project-related facilities and infrastructure over an operations term of up to 33 years, as identified in the Lease (OCS-A 0538). Operations and maintenance of the Project will be completed in accordance with the COP, the CECPN, and EM&CP. During operations and maintenance, Attentive Energy will implement all avoidance, mitigation and monitoring measures, reporting requirements, and other requirements identified in issued permits, authorizations, licenses, and other decision documents.

Throughout all phases of the Project, Attentive Energy will continue to implement all avoidance, mitigation and monitoring measures, reporting requirements, and other requirements identified in issued permits, authorizations, licenses, and other decision documents.

Phase 6 – Decommissioning

The decommissioning phase of the Project includes decommissioning of all Project facilities, installations, or other devices, unless authorizing agencies (BOEM and/or New York State agencies) have approved facilities or installations to remain in place or be converted to an artificial reef, as defined in the decommissioning application and other approvals. Near the anticipated end of the operational period for the Project (in 2054), Attentive Energy will submit to BOEM a decommissioning application that identifies and describes all facilities and installations to be removed, removal methods, transportation, disposal or salvage plans, and a decommissioning timeline or schedule. Following BOEM's approval of the decommissioning application, Attentive Energy will submit a separate decommissioning notice at least 60 days prior to the commencement of decommissioning activities that describes any changes to methods or procedures in the decommissioning application and an updated schedule. Attentive Energy will also submit any coordination efforts with State and local agencies and Tribal governments.

Attentive Energy will have 2 years after the operations phase to complete decommissioning, which will be completed in accordance with the CECPN, Article VII application, and the BOEM-approved decommissioning

application. During decommissioning, Attentive Energy will implement all avoidance, mitigation and monitoring measures, reporting requirements, conservation measures, and other requirements identified in issued permits, authorizations, licenses, and other decision documents. Within 60 days of removal of any Project facility, Attentive Energy will submit a final notice to BOEM that summarizes these removal activities and any mitigation measures.

Please see Attachment 10-C for a comprehensive overview of Project Permitting and Approval Process by Project Phase.

SAP and COP

The requirements, plans, and timelines for the SAP and COP are provided in earlier subsections.

Attentive Energy submitted a draft SAP, which is provided as Attachment 10-B, to BOEM on January 20, 2023 in Q1 2023 for deployment of a metocean buoy with FLiDAR within the Lease Area. Attentive Energy is preparing a PATON permit application for the SAP that will be submitted to USCG prior to buoy deployment. A PCN is also being prepared to document SAP conformance to NWP #5. Because the SAP has been designed to meet the conditions and requirements outlined in NWP #5, Attentive Energy will self-certify authorization under NWP #5 for installation of the metocean buoy.

[REDACTED]

The Project COP has not yet been submitted, but Attentive Energy has already retained a COP consultant to develop and manage the COP and all remaining surveys and studies.

[REDACTED]

[REDACTED]

Attentive Energy submitted a SAP to BOEM on January 20, 2023 for deployment of a metocean buoy with FLiDAR within the Lease Area.

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SECTION 11

ENGINEERING AND TECHNOLOGY



Installation of TTE's Seagreen offshore wind farm OSS topside

Section 11 Table of Acronyms


ABS	Acrylonitrile Butadiene Styrene
AC	Alternating Current
ADLS	Aircraft Detection Lighting System
AKT	Arthur Kill Terminal
BOEM	Bureau of Ocean Energy Management
CEWS	Circular Economy for the Wind Sector
CFT	Call for Tender
Climate Act	Climate Leadership and Community Protection Act
CLOA	Conditional Letter Of Award
COD	Commercial Operation Date
COP	Construction and Operations Plan
[REDACTED]	[REDACTED]
CPT	Cone Penetration Test
DC	Direct Current
E&P	Exploration & Production
EPC	Engineering, Procurement and Construction
EPCI	Engineering, Procurement, Construction & Installation
ESD	Empire State Development
FAA	Federal Aviation Administration
FEED	Front End Engineering Design
FEMA	Federal Emergency Management Agency
FID	Final Investment Decision
FLiDAR	Floating Light Detection and Ranging
GBS	Gravity-Based Structure
GE	General Electric
HDPE	High Density Polyethylene
HSE	Health, Safety, and Environment
HVDC	High Voltage Direct Current

IAC	Inter-Array Cable
IPCC	Intergovernmental Panel on Climate Change
[REDACTED]	[REDACTED]
km	Kilometer
Lease Area	Lease Area OCS-A 0538
LNG	Liquefied Natural Gas
[REDACTED]	[REDACTED]
m	Meters
metocean	Meteorological and/or Oceanographic
mi	Miles
mm	Millimeters
MP	Monopile
mt	Metric Ton
MVAC	Medium Voltage Alternating Current
MW	Megawatt
MWBE	Minority and Women Owned Business Enterprise
NAACP	National Association for the Advancement of Colored People
NGLCC	National LGBT Chamber of Commerce
[REDACTED]	[REDACTED]
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NYCDOT	New York City Department of Transportation
O&M	Operations & Maintenance
OEM	Original Equipment Manufacturer
OGS	Office of General Services
OREC	Offshore Wind Renewable Energy Certificate

OSS	Offshore Substation
PACE	Platform for Accelerating the Circular Economy
PAR	Phase-Angle Regulator
PATON	Private Aid to Navigation
PCP	Purchase Commitment Proposal
PET	Polyethylene Terephthalate
POI	Point Of Interconnection
PVC	Poly Vinyl Chloride
QA	Quality Assurance
QC	Quality Control
R&D	Research and Development
RFI	Request for Information
RODA	Responsible Offshore Development Alliance
SAP	Site Assessment Plan
SCIP	Supply Chain Investment Plan
SDVOB	Service-Disabled Veteran Owned Business
T&I	Transportation & Installation
TBD	To Be Determined
TGP	TotalEnergies Global Procurement
TP	Transition Piece
UHR	Ultra High Resolution
USCG	U.S. Coast Guard
USGS	United States Geological Survey
UXO	Unexploded Ordinance
VEDI	Veterans Entrepreneurial Development Initiatives
WEDG	Waterfront Edge Design Guidelines
WTG	Wind Turbine Generator
[REDACTED]	[REDACTED]

11. ENGINEERING AND TECHNOLOGY

The Sponsors' active development and operation of multi-GW energy projects, offshore experience, established design and procurement standards, and relationships with key vendors provides a basis for sound engineering. TotalEnergies' OneTech organization includes 3,400 specialists, engineers, managers, and experts providing advanced technical expertise on some of the most complex offshore projects around the world, such as Seagreen in Scotland. Seagreen is the world's deepest fixed bottom offshore wind farm – being constructed in up to 59 m water depths with suction jacket foundations. Rise also has two decades of experience operating critical onshore energy infrastructure at Ravenswood in the heart of NYC. Together, Attentive Energy's personnel have made foundational contributions to the U.S. offshore wind industry and have unparalleled knowledge of the process of interconnecting an offshore wind farm into the Northeastern U.S..



Attentive Energy offers New York State unmatched Project maturity, underpinned by an advanced and viable transmission solution that reduces risk, cost, and community impact. Over the past two years, Rise has completed over 255 mi of marine surveys and completed engineering to mature and de-risk the State waters portion of the Project's export cable route. On December 2, 2022, Rise submitted an Article VII application that lays the groundwork for the design and permitting of this portion of the Project.

All major onshore components, including the Converter Station and AC Substations, will be sited at Ravenswood, avoiding costs and schedule risks associated with construction on greenfield or utility-owned property. Additionally, by interconnecting the Project at Ravenswood and coordinating the interconnection with the fossil repurposing of one of Ravenswood's 400 MW steam turbines, the Proposer has designed an interconnection that will require minimal capacity deliverability upgrades, reducing both the risk and cost of extensive system upgrades, thereby benefiting ratepayers.

Attentive Energy has used established, publicly available data sources and results from several Project-specific studies and surveys to assess the physical characteristics of the Lease Area, develop a strong understanding of site conditions, and develop a robust basis of design for the Project. Over the past year, Attentive Energy completed the first marine surveys in the Lease Area and in the federal waters of its export cable route. Attentive Energy also performed reconnaissance-level geotechnical and geophysical surveys, advancing its understanding of the geology of the Lease Area's substrate and already significantly de-risking project execution.

In connection with this Project, Attentive Energy has met with over 130 unique stakeholders and conducted more than 250 stakeholder meetings all before even holding a lease. This proactive outreach to a diverse set of communities and stakeholders since 2019 underscores the organization's belief that early engagement and strong, trusted relationships are instrumental to the design of the Project. This has yielded a project design that is informed by stakeholder engagement with respect to routing, layout, construction and operations. These activities are further defined in Sections 4 and 16.

The Project's current design basis is presented in Table 11-1. Attentive Energy will continue to review and refine the Project's design basis, based on technical, permitting, stakeholder, and commercial factors, to ensure that the Project provides the most advantageous and cost-effective solution to New York.

Climate impact assumptions, including both direct and indirect impacts of climate change, have been used to inform the selected technologies, designs, construction, and operational features of offshore and onshore Project assets. By leveraging global resources and best practices, Attentive Energy presents a resilient Project design that New York State can rely on.

In this Submission, Attentive Energy is proposing a suite of SCIP and purchase commitment options to New York State, with each SCIP facility building upon the mission to create good-paying jobs, deliver significant economic benefits, and make New York State the hub for the U.S. offshore wind supply chain. Attentive Energy's Submission includes investments in two SCIP Facilities that focus on WTG manufacturing and propose to bring blade and nacelle facilities to the Capital Region, creating hundreds of jobs at the Port of Coeymans and solidifying the capital regional as a hub for offshore wind manufacturing. In its LM Wind Power blade and GE

Overview of Project Technology and Engineering Plan

Attentive Energy has used several established, publicly available data sources combined with preliminary studies and surveys results to assess the physical characteristics for the Lease Area covering bathymetry, soil condition, benthic, wind and metocean conditions to develop a strong understanding of site conditions and a robust basis of design for the Project. Table 11-2 summarizes the data sources used to determine the site characteristics.

Renewables nacelle SCIP and PCP Proposals, Attentive Energy is committing to using GE WTGs with components produced in New York State, [REDACTED]

[REDACTED] Attentive Energy is also offering Proposals that include SCIPs with AKT as the Project's marshalling port, leveraging State investments to build this strategic facility that avoids bridge restrictions and offers the most efficient logistics during construction.

This analysis confirms the viability of the Project design, with key takeaways as follows:

[REDACTED]

Attentive Energy will continue to mature and optimize the technical solution and develop the required engineering documentation through the respective phases of engineering design (pre-FEED, FEED and Detailed Design) as further explained in Section 12. A phased approach, with formal validation processes, quality and peers review of the engineering work, will be implemented as per Sponsors' best practices.

[REDACTED] This incorporates project lessons learned, design standardization and harmonization with global practices to meet the local needs of the Project.

Generator lead line transmission

In January 2022, the NYPSC published the *Order on Power Grid Study Recommendations* instructing NYSERDA to procure HVDC technology for radial connections, prioritize grid benefits and advanced technologies in project evaluation, and include a carve out for storage projects to be evaluated under both economic benefits and project viability in future offshore wind procurements. In compliance with ORECRFP22-1 requirements, the Project will deliver energy through a low loss HVDC submarine cable interconnection from the Offshore Wind Generation Facility to a Delivery Point in NYISO Zone J. HVDC transmission technology provides reliable and fully controlled power supply in either direction to and from the shore and reduces the number of cables required to deliver offshore wind generation to the onshore grid.

Utilizing HVDC technology drastically enhances the State's ability to reach its offshore wind targets as set out in the Climate Act, in addition to providing superior operational control and reduced environmental impacts.

[REDACTED]

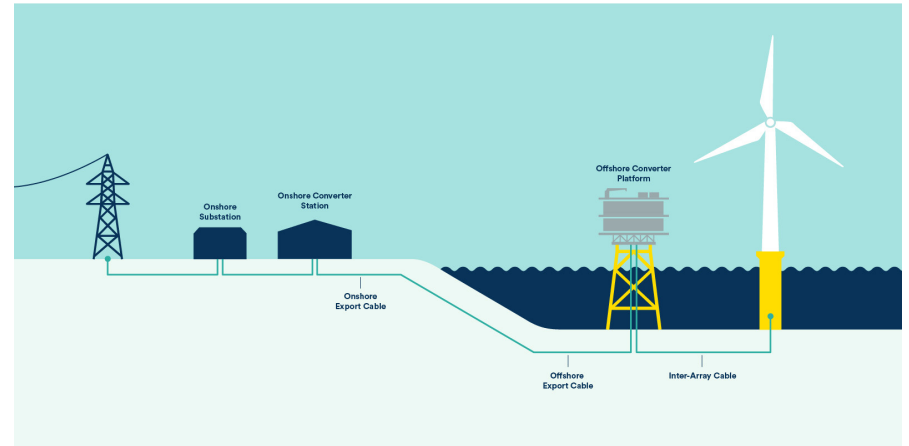


Figure 11-1 Illustration of Typical Project Design

Overview of Primary Components

Major components of the Project are listed below. Detail on select data used to advance design of each component to date is provided in Table 11-3.

- WTGs
- Foundations
- IACs
- OSS
- Export cable
- Onshore works, including the Onshore Substation

Attentive Energy has developed the indicative Project design and selected the main Project component types through in-house expertise and by leveraging relationships with suppliers through TGP. An overview of TGP is provided as Attachment 3-B in Section 3 of this Submission. TotalEnergies' Procurement entity supported by over 260 specialists has long-standing and strong relations with the leading suppliers and operators in the

maritime and offshore wind industry. Across projects, TGP prescribes the processes and best practices that guide the preparation and awarding of study contracts, execution service contracts, and execution contracts for industrial projects. Attentive Energy's resources and expertise have been further supported by several Project-specific design studies performed by external consultants, and RFIs to suppliers, as identified in Table 11-3.

Wind Turbine Generators

The WTGs convert kinetic energy from the wind into AC electrical energy. WTGs are comprised of the following components:

- The **tower** is the structural base of the WTG that supports the rotor and the nacelle module (tapered tubular, usually made of steel and concrete).
- The **nacelle** houses mechanical and electrical generating equipment linked to the rotor.
- The **rotor** is comprised of of three blades (mostly made of composite materials) connected to the nacelle via a central hub.

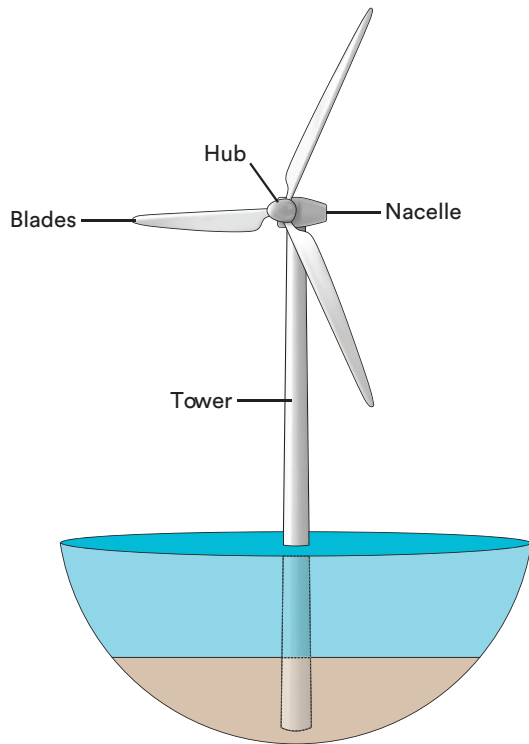


Figure 11-2 Indicative WTG

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Foundations

Foundations, which serve as a support for the WTGs, are comprised of three main elements:

- The **foundation structure** interfaces between the seabed and the TP and can take several forms: monopile (most common in offshore wind), jacket, and gravity-based structure.
- The **transition piece** provides the interface between the foundation structure and the WTG. TPs ensure the integrity, stiffness, and flatness of the flange to which the WTG tower is bolted. TPs also facilitate personnel access (mostly for O&M operations) by supporting secondary steel structure such as ladders or boat landing.
- **Scour protection** (generally comprised of rock) protects foundations from seabed scour caused by accelerated water movement around the foundation due to the obstruction it provides.

The factors influencing the choice of foundation for a specific project include:

- the type of WTG to be used,
- the nature of the ground conditions at the site,
- the water depth and sea conditions (i.e. prevailing wave and current climate),
- the feasibility of transportation, storage, and installation, and
- supply chain constraints and overall cost.

[REDACTED]

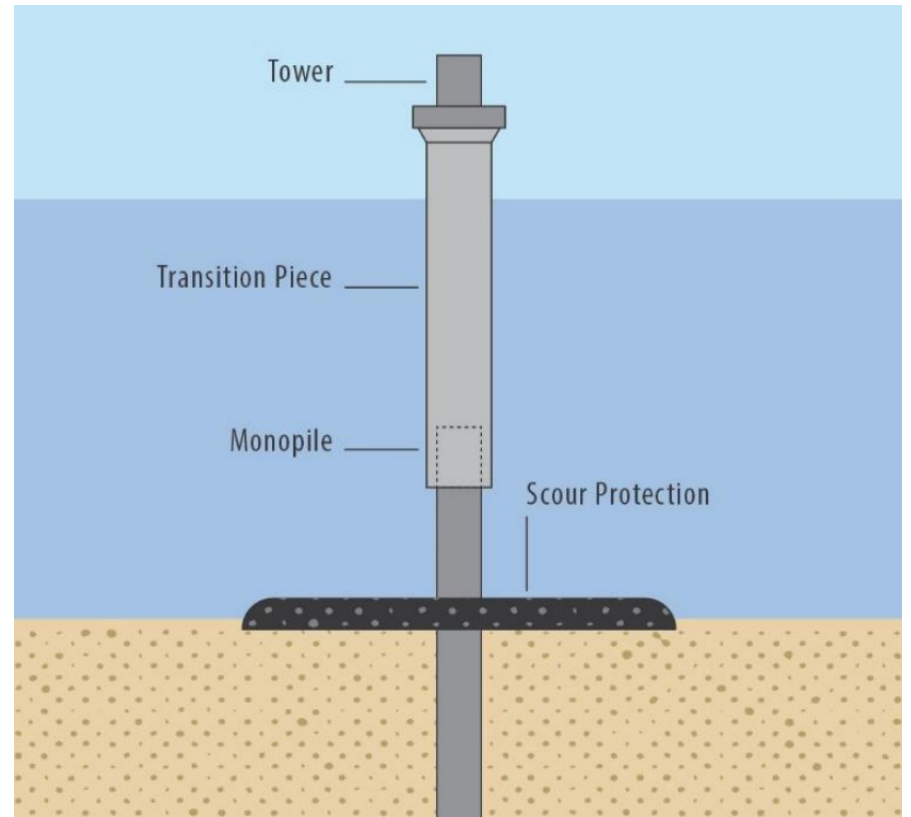
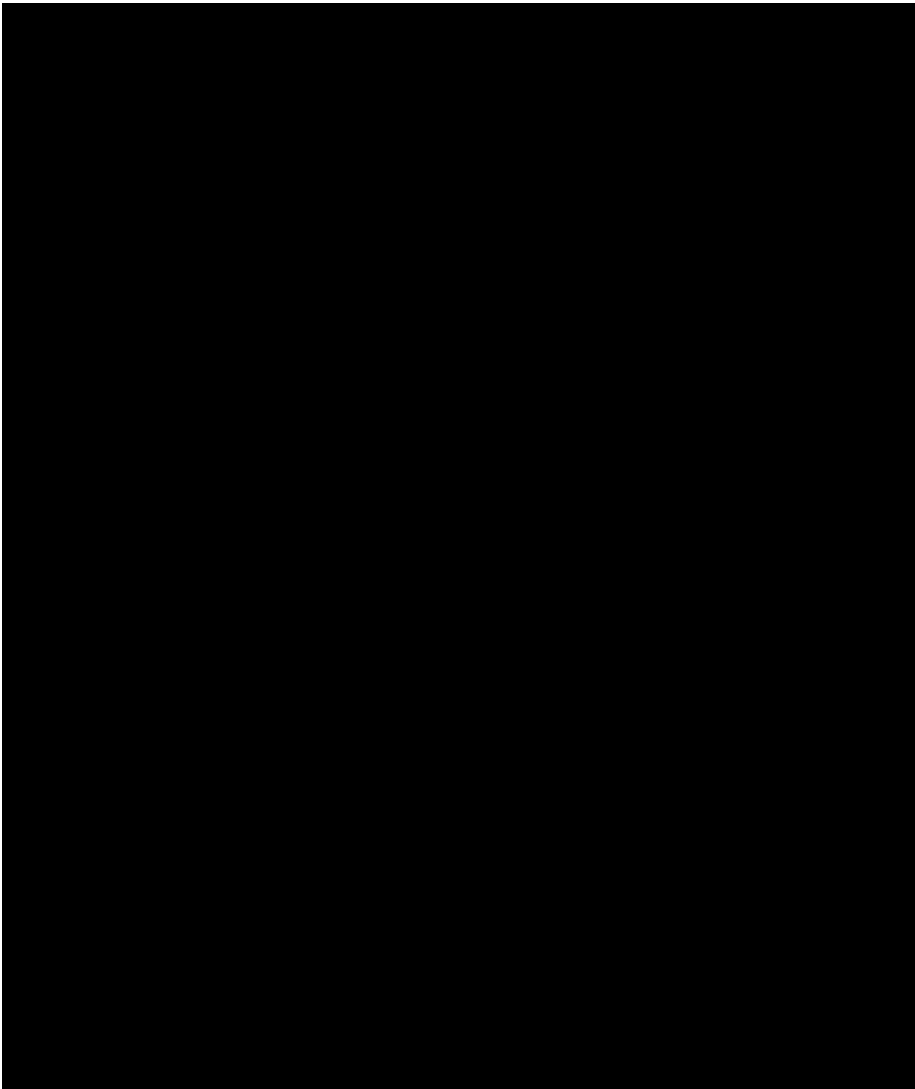


Figure 11-3 Indicative WTG foundation type - Monopile with TP (image courtesy of BOEM). Monopile foundations typically consist of a single tubular section, consisting of several sections of rolled steel plate welded together. A TP is fitted over the monopile and secured via bolts or grout.

[Redacted text block]

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Foundation installation methods and relevant seabed preparations are discussed in Section 13.

Attentive Energy benefits from TotalEnergies’ experience with installing bottom-fixed foundations, notably the Seagreen project in Scotland. There are also numerous oil and gas projects in TotalEnergies’ portfolio where different foundation types and installation methods have been investigated or used – including jacket, driven piles, drilled piles, grouted piles, piles through legs, skirt piles – providing a robust background of information and expertise within the Project team. Attentive Energy will leverage its Sponsors’ in-house experiences and competencies for the Project, and Table 11-5 provides some examples of TotalEnergies’ experience in designing and installing different foundation types in unique offshore environments.

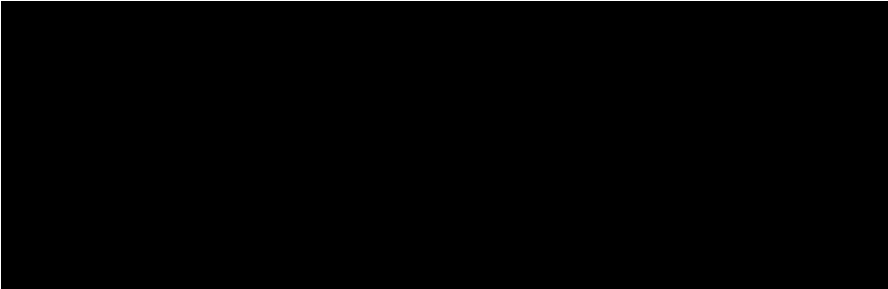
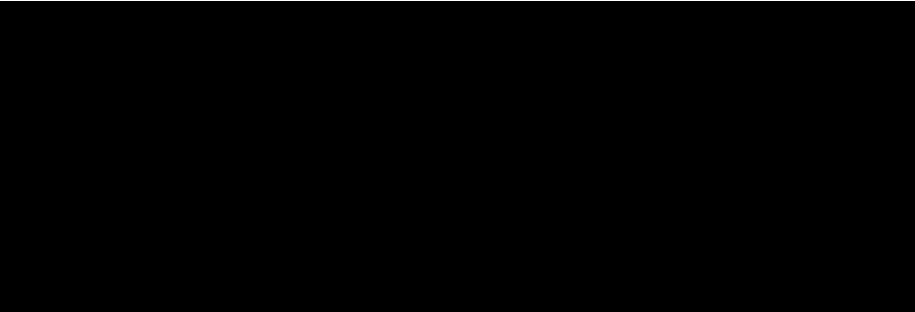
Table 11-5 Examples of TotalEnergies’ experience with foundations

Project	Location	Unique Offshore Characteristics
Seagreen (Offshore wind)	Scotland	Deepest bottom-fixed offshore wind foundations in the world, using suction buckets jackets
Tierra del Fuego (E&P)	Argentina	Construction in very hard soils, using drilled piles; a similar installation methodology may be applied in TotalEnergies’ ScotWind project
Trestle Jacket (LNG)	Yemen	Piles drilled in basalt
Dunbar (E&P)	North Sea	Pin-piled jacket at 145 m water depth
N’Kossa NKF1 & NKF2 (E&P)	North Sea	Jacket with skirt piles at 170 m water depth

The Project additionally benefits from team members who were involved with design and installation of the first offshore wind farms in the U.S., including Block Island Wind Farm, South Fork Wind, Skipjack Wind, Sunrise Wind 1, Ocean Wind, and Revolution Wind.

Inter-Array Cables

IACs electrically connect the WTGs to each other and to the OSS via AC. Indicative parameters for the IACs are shown below.



OSS

The OSS collects the power generated by WTGs (via the IACs) and exports it to shore through the export cable. The OSS steps up the voltage of power generated offshore and reduces the potential electrical losses, all in a manner that supplies the greatest deliverability. The OSS is comprised of two main parts:

- The **topside** includes all the electrical equipment and facilities. The topside transforms electricity generated by WTGs and transported through IACs and converts it from AC into DC to bring the electricity to shore.
- The **OSS foundation**, like the WTG foundation, supports the topside by providing the interface between the seabed and the topside.

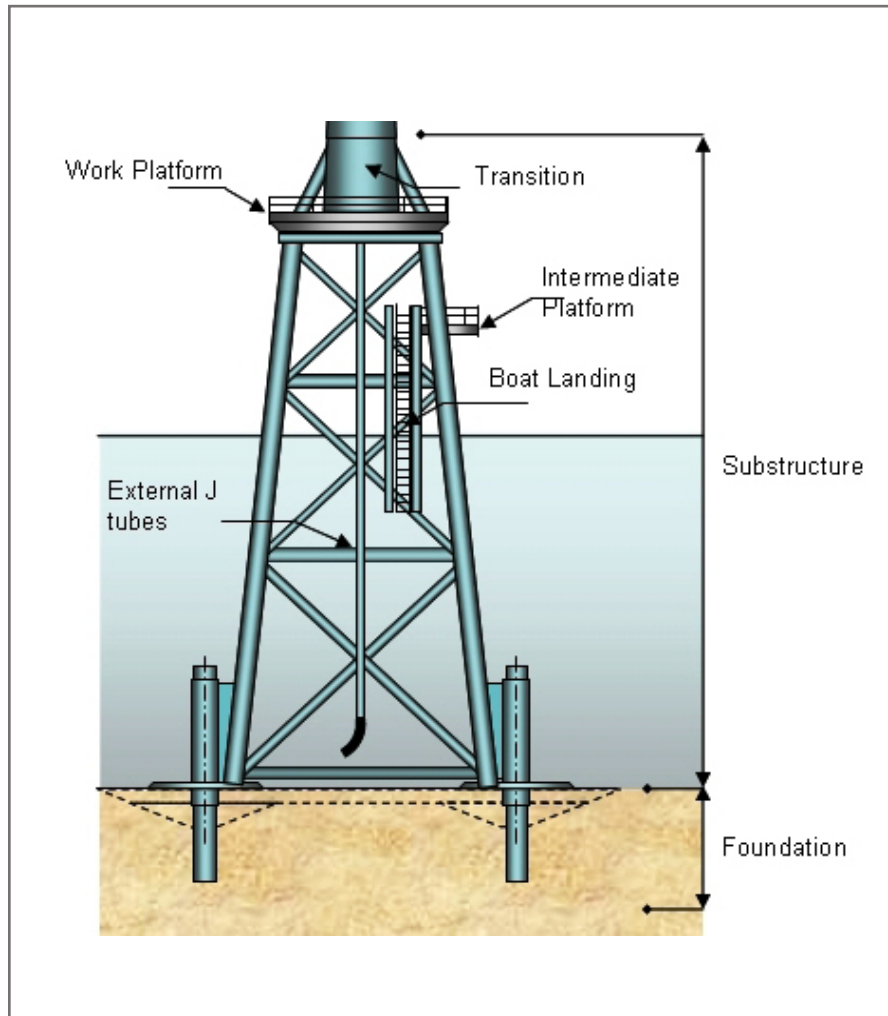
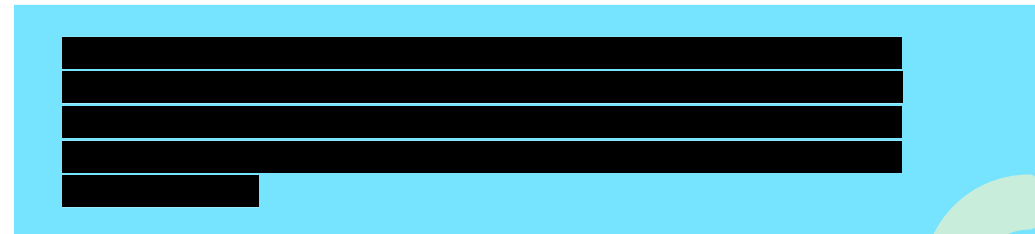


Figure 11-4 OSS foundation design basis for the Project. Pin-piled jacket foundations are formed of a steel lattice construction (comprising tubular steel members and welded joints). The OSS foundation is secured to the seabed by hollow steel pin-piles which sit within a sleeve or leg which is part of the jacket. Piling may take place once the jacket is in position, or alternatively it may be pre-piled. The piles rely on frictional and end bearing properties of the seabed for support. Unlike monopiles, there is no separate TP; the TP and ancillary structure is fabricated as an integral part of the jacket. Pin-piles will typically be of a smaller diameter than monopiles.



The current OSS location is indicative and may be revised with ongoing Project development efforts to engineer an optimal design for the Project. As Project design advances, Attentive Energy will continue to refine design aspects of Project components such as the OSS, including how to most efficiently design for Meshed Ready.

HVDC topsides are significantly more complex and heavier than AC solutions; HVDC topside weights can exceed 10,000 mt. Due to the large topside weights, monopile foundations are not generally practical for the OSS. The indicative OSS foundation type for the Project, and more broadly in the industry, is a pin-piled jacket. OSS foundation design will be further examined and verified as the Project advances.

TotalEnergies has extensive expertise in designing and installing jacket foundations. Furthermore, TotalEnergies has been involved in, and has been a leader on, construction of numerous megaprojects that have included lifting large topsides. Large lifts are considered to be greater than 10,000 metric tons which is also the minimum weight currently considered for the Project's OSS topside. Examples of installed topsides in TotalEnergies' portfolio are provided in the table below.

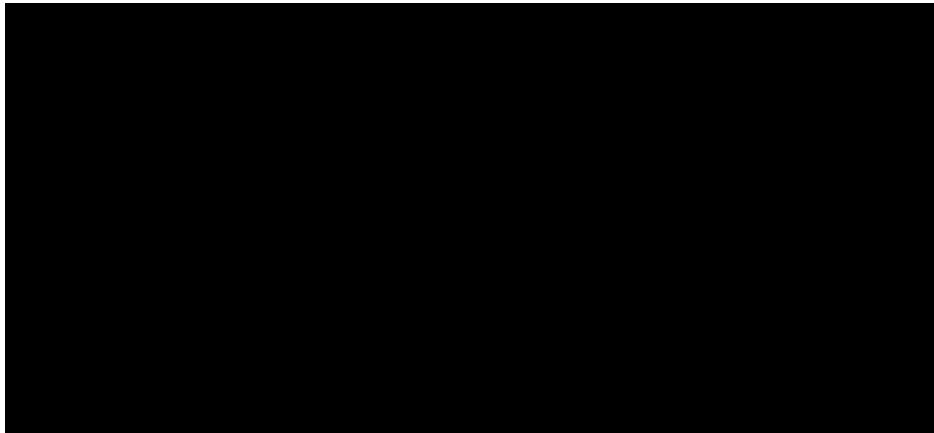
Table 11-7 Examples of TotalEnergies' Experience with Topsides

Project	Location	Topside weight
Tyra	Denmark	17,000 mt
Ekofisk	Norway	> 10,000 mt
Dunbar/Alwyn	U.K.	> 10,000 mt
Anemam	Nigeria	18,000 mt

The table below provides indicative parameters for the Project's OSS.

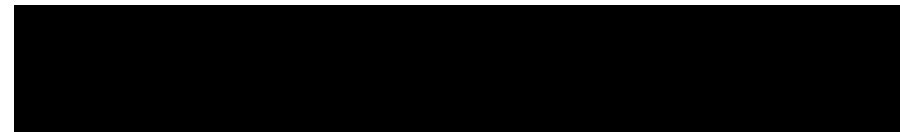


Meshed Ready



Export Cables

Export cables transmit power from the OSS to the onshore substation. The HVDC submarine cable corridor will host one HVDC circuit that consists of a pair of conductors bundled with a fiber optic cable in a single trench. The cable design will incorporate fiber optics to provide, command, and control the offshore and onshore HVDC converters. This will also allow for remote monitoring telemetry, control, and voice communications required for operating the cables and the Offshore Wind Generation Facility to which they connect.



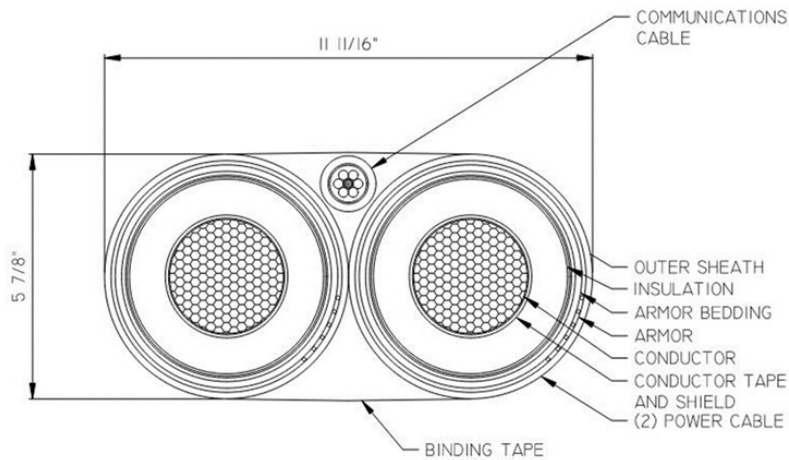


Figure 11-5 Typical cross-section of a complete circuit

Using a multi-disciplinary approach involving a team of permitting, environmental, engineering, and construction specialists, Attentive Energy performed a constructability risk assessment and developed the respective HVDC export cable route starting in 2019. Attentive Energy used a wide set of metrics to evaluate export cable routes and further develop the primary route. Factors included, but were not limited to, electrical thermal resistivity, construction parameters such as burial methods, depth, and geotechnical properties, and Project-specific data collection. Detailed discussion on factors influencing the export cable route is provided in Section 4.

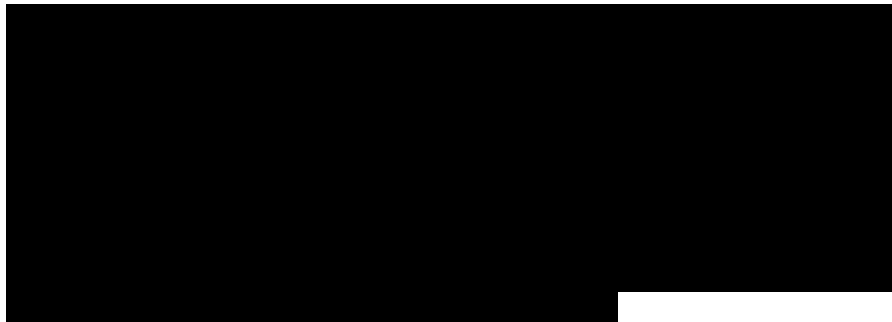
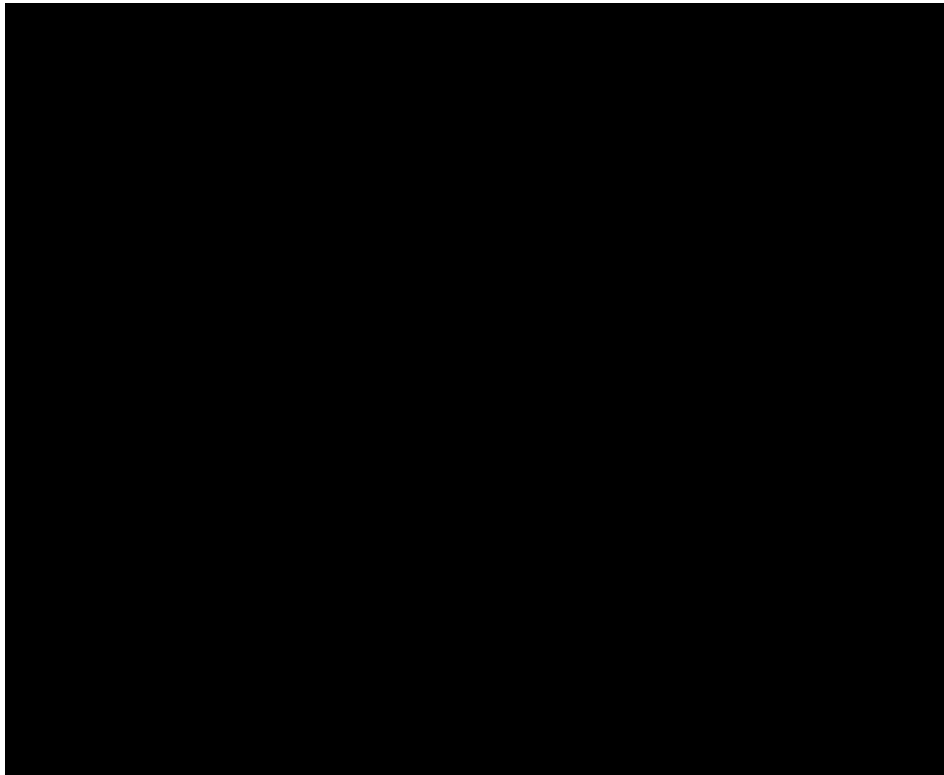
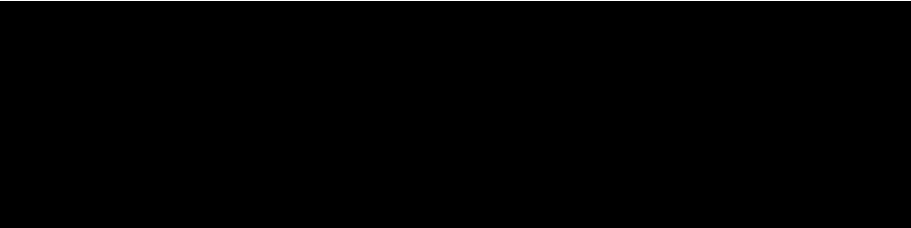


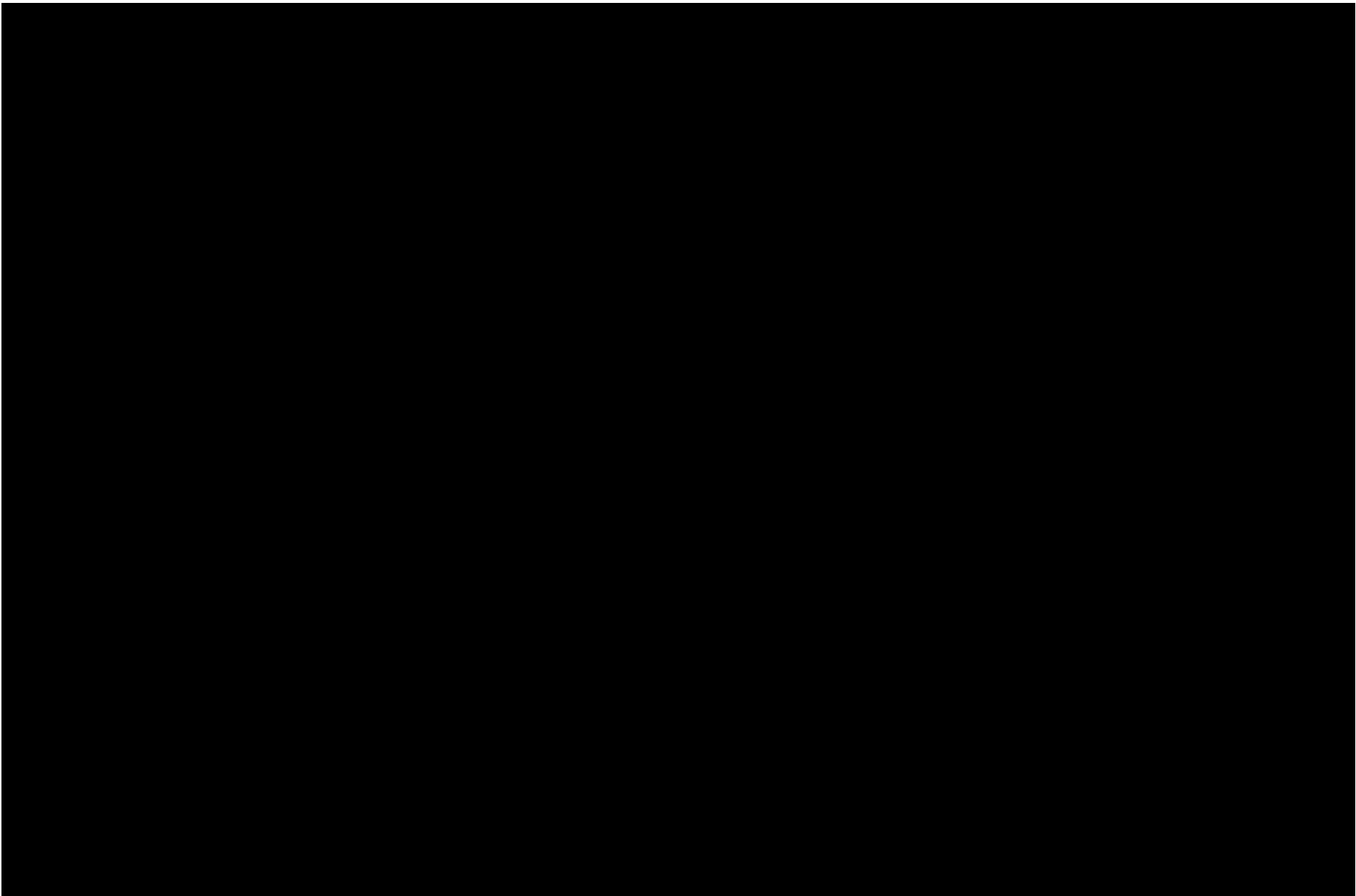
Figure 11-6 Export Cable Route

Onshore Works

- Attentive Energy has applied an innovative and sound approach to optimize land area at Ravenswood in order to support the following components: A cable landfall location where the export cable transitions to shore (See Section 13 for more detail)
- An onshore converter station (See Section 8 for more detail),
- A newly built AC substation (see Section 8 for more detail), and
- A portion of the AC feeders that will connect the newly built substation on the property to the Rainey 345 kV Substation (See Section 13 for more detail).

The Project will interconnect to the new Ravenswood AC substation connecting to Rainey at 345 kV and Vernon at 138 kV. A fundamental element of Attentive Energy's matured transmission solution is complete control of the onshore route, accelerating the delivery of the offshore wind farm green electrons directly into the uncongested heart of New York city.





Manufacturing and Procurement of Primary Components

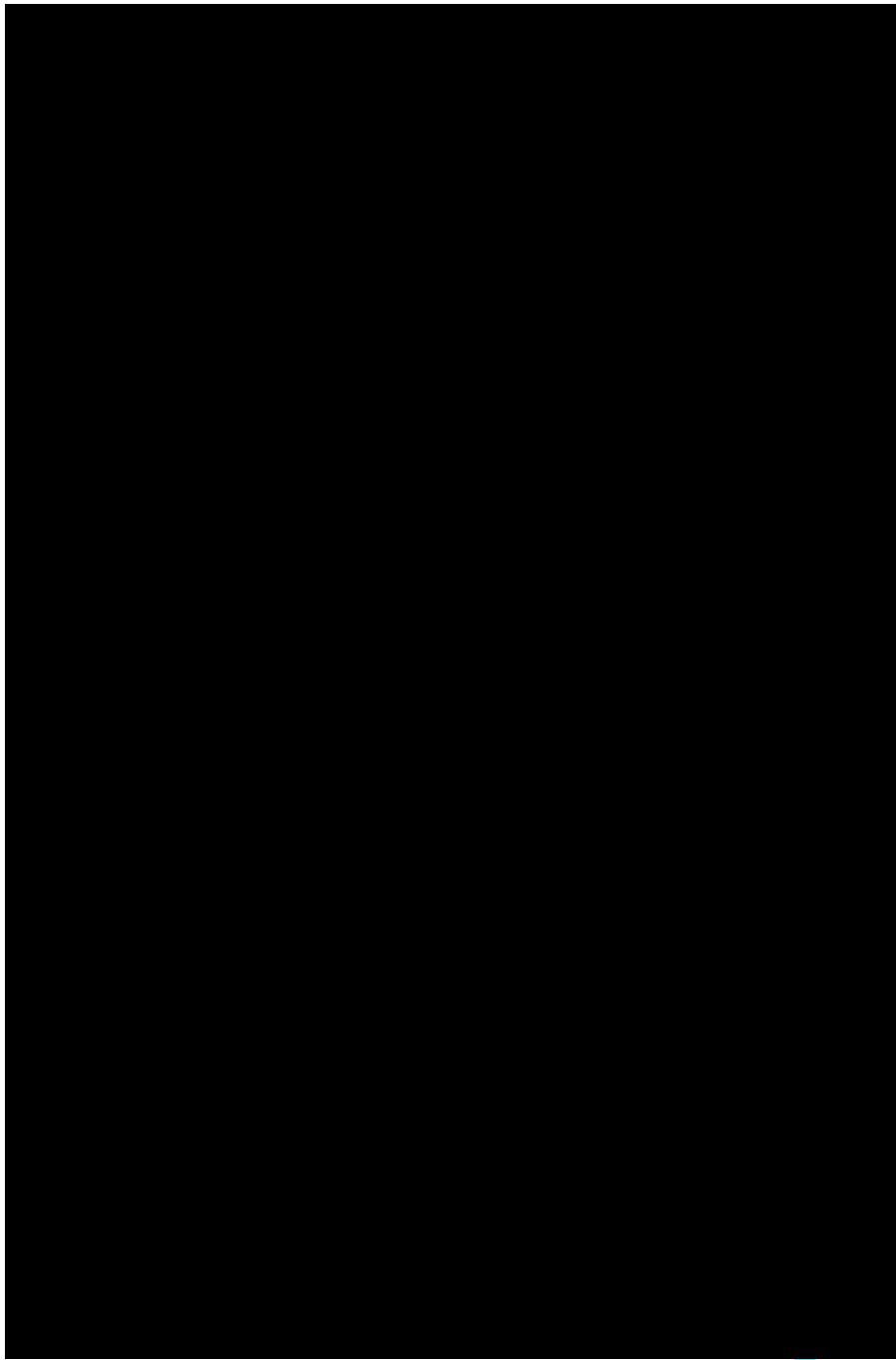
Potential Location for Component Manufacture

The U.S. offshore wind supply chain is burgeoning, and the opportunities to source primary and secondary component manufacturing within New York State and domestically are continuously expanding. However, the U.S. market is still in its early stages and will need to be supported by the global supply chain to meet the high demand for offshore wind over the next decade.

Attentive Energy benefits from TGP, whose objectives are to further professionalize and streamline procurement by consolidating shared service centers and improving their performance, and to simplify purchasing for all stakeholders. TGP consists of over 260 collaborators to manage TotalEnergies' procurement globally and aims to:

- Aggregate spends wherever possible to benefit from pricing reductions through volume,
- Provide a more efficient service to the business unit and reduce the time taken for qualification, tendering, and contracting, and
- Increase the professionalism of the procurement function, managing products and services by category and more rapidly expanding the use of proven leverage tools: catalogues, target cost analysis, unbundling of services, use of suppliers in geographically competitive countries.

[REDACTED] Attentive Energy's commitments to establishing blade and nacelle factories in New York State, if NYSERDA selects Attentive Energy's Proposals including those associated with SCIPs or PCPs, [REDACTED]



Development of Procurement Strategy

Backed by decades of global procurement and engineering experience, Attentive Energy has performed extensive technical due diligence in the U.S. offshore wind market. Utilizing experience with OEMs and the relationships built by TotalEnergies, Attentive Energy understands the state of the market and the local sourcing opportunities in New York.

Attentive Energy benefits from expertise of its Sponsors in understanding offshore wind technologies and on-the-ground experience contracting and executing large capital projects in offshore wind, oil and gas, and transmission. Attentive Energy offers both local expertise and global procurement experience and will be responsible for contracting of major components and incorporating the localization of supply chain opportunities.

Attentive Energy intends to leverage TotalEnergies' procurement practices to ensure that a competitive and fair process is used to procure all major components and services to deliver a cost-effective and timely offshore wind project.

Approved Supplier List and Pre-Qualification Requirements

As primary points of contact with suppliers, it is incumbent upon Attentive Energy's procurement personnel to know the Project's qualified suppliers and perform the initial vetting of any new supplier. Qualification of proposed suppliers may be based on:

[REDACTED]

Key areas to be addressed in the selection processes shall include, at a

minimum, the following items:

[REDACTED]

As a localized supply chain is developing in New York State, these pre-qualification requirements for suppliers will be clear to the market as Attentive Energy progresses the development of its approved supplier list. Attentive Energy recognizes that it is imperative to have a transparent process early on that provides a clear path to qualification.

Please see the Economic Benefits Plan Attachment 19-G to Section 19 for additional information.

Domestic Steel Purchasing

[REDACTED]

Attentive Energy commits to identifying New York businesses that could contribute to various scopes of work throughout the Project lifecycle. This includes an adherence to the New York State Supplier Opportunity program with regular use of the NYSERDA Supply Chain Database, the ESD MWBE Certified Supplier Database, and the OGS SDVOB Directory.

Attentive Energy has engaged with the OEMs and manufacturers in the offshore wind market over the last years, through informal engagements and RFIs, to assess steel sourcing constraints within the global supply chain. OEMs are Attentive Energy's first line of information regarding availabilities and pricing for the steel components for the Project. As Attentive Energy commences preparation for procurement of primary steel packages, Attentive Energy regularly meets with these manufacturers to understand their products and how they intend to source or produce U.S. manufactured iron and steel.



Opportunities for Local Supply Growth



Attentive Energy will be responsive to suppliers and prospective suppliers throughout New York State who express an interest in supporting the Project. The Proposer will develop and maintain a register of such suppliers, which will be referenced by procurement and other Attentive Energy personnel for any Calls for Tender and supplier-related events and communications. Attentive Energy's database should include any expressions of interest from Attentive Energy's website plus participants at Attentive Energy's supplier events or other events attended by Attentive Energy, in addition to any others who express interest.

Attentive Energy will also encourage all local suppliers to register with any relevant databases for the industry, including NYSERDA's New York Offshore Wind Supply Chain Database, ESD's MWBE Certified Database, and OGS' Directory of New York State Certified SDVOB.

Additionally, Attentive Energy plans to notify local businesses of contracting and subcontracting opportunities for goods and services through the following organizations:

- Small Business Administration
- Women's Business Enterprise National Council
- National Minority Supplier Development Council
- National Veteran Business Development Council
- NGLCC
- Disability:IN
- NAACP
- VEDI
- New York State Contract Reporter

Attentive Energy also intends to be a regular participant in New York’s signature small business events, including:

- MWBE Forum
- New York GovBuy
- VetCon

Attentive Energy and its major suppliers will communicate supplier opportunities to New York companies, including MWBEs and SDVOBs, for goods and services with anticipated contract values greater than \$250,000 and \$100,000, respectively, using: (a) NYSERDA’s New York Offshore Wind Supply Chain Database, (b) ESD’s MWBE Certified Database, and (c) OGS’ Directory of New York State Certified SDVOB. Attentive Energy and its contractors at all tiers will be required to reference the databases regardless of contract value for goods and services that can be reasonably provided within New York State. Exclusions may be allowed to the extent provision of goods and services cannot practically be performed by the New York State supply chain and commitments that precede Attentive Energy’s offer Submission.

To the maximum extent possible, and without compromising other supplier’s proprietary information, Attentive Energy will provide meaningful feedback to suppliers and hosts of local databases to accelerate the development of the U.S. supply-chain, leveraging lessons learned from the past and identifying main gaps compared to the global supply chain.

For details regarding Attentive Energy’s commitment to fulfilling the New York State Supplier Opportunity requirements and initiatives and investments that Attentive Energy is pursuing to expand opportunities for the local supply chain, please see the Economic Benefits Plan Attachment 19-G.

Status of Component Acquisition, Contracts, and Vendors Considered

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

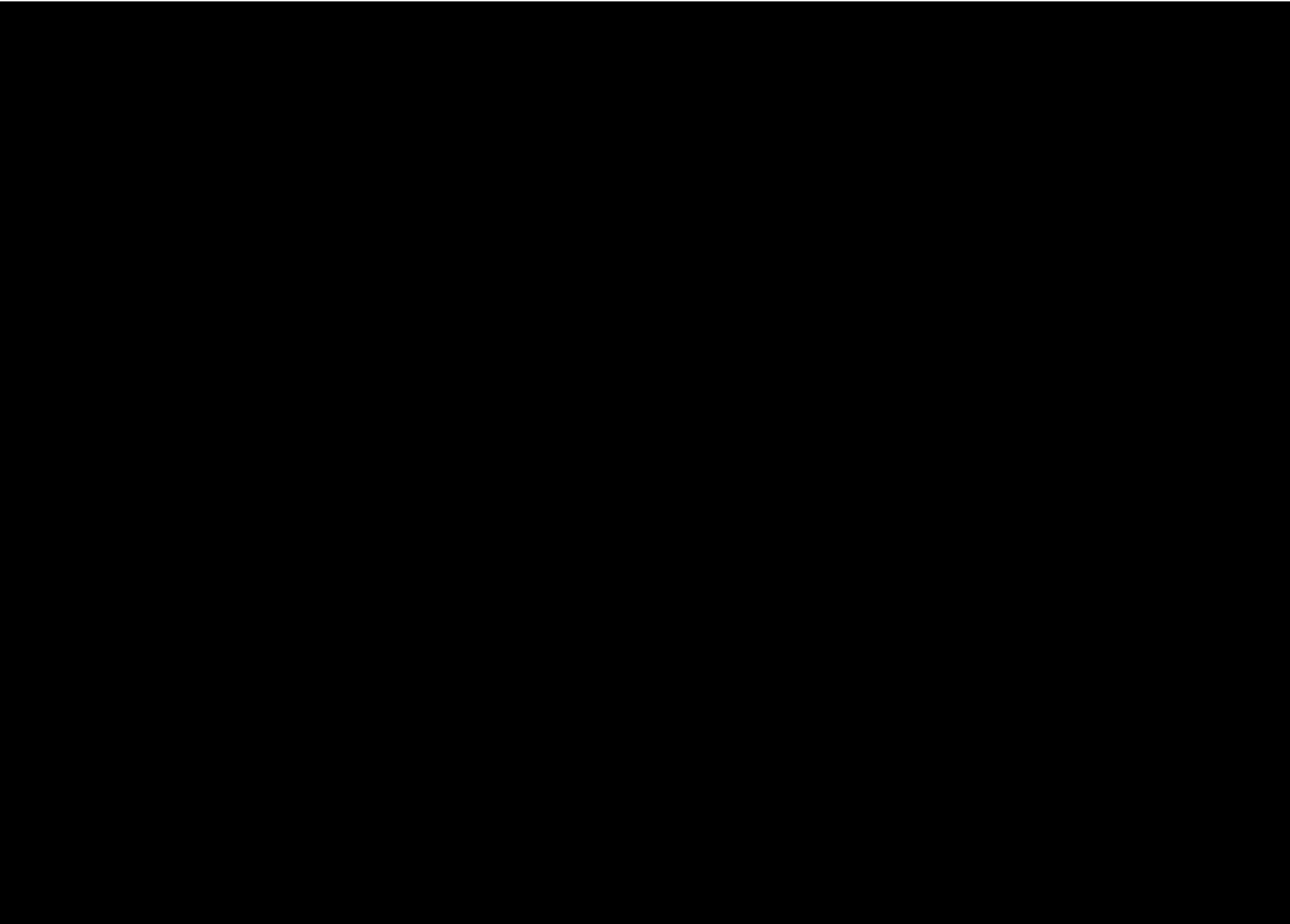
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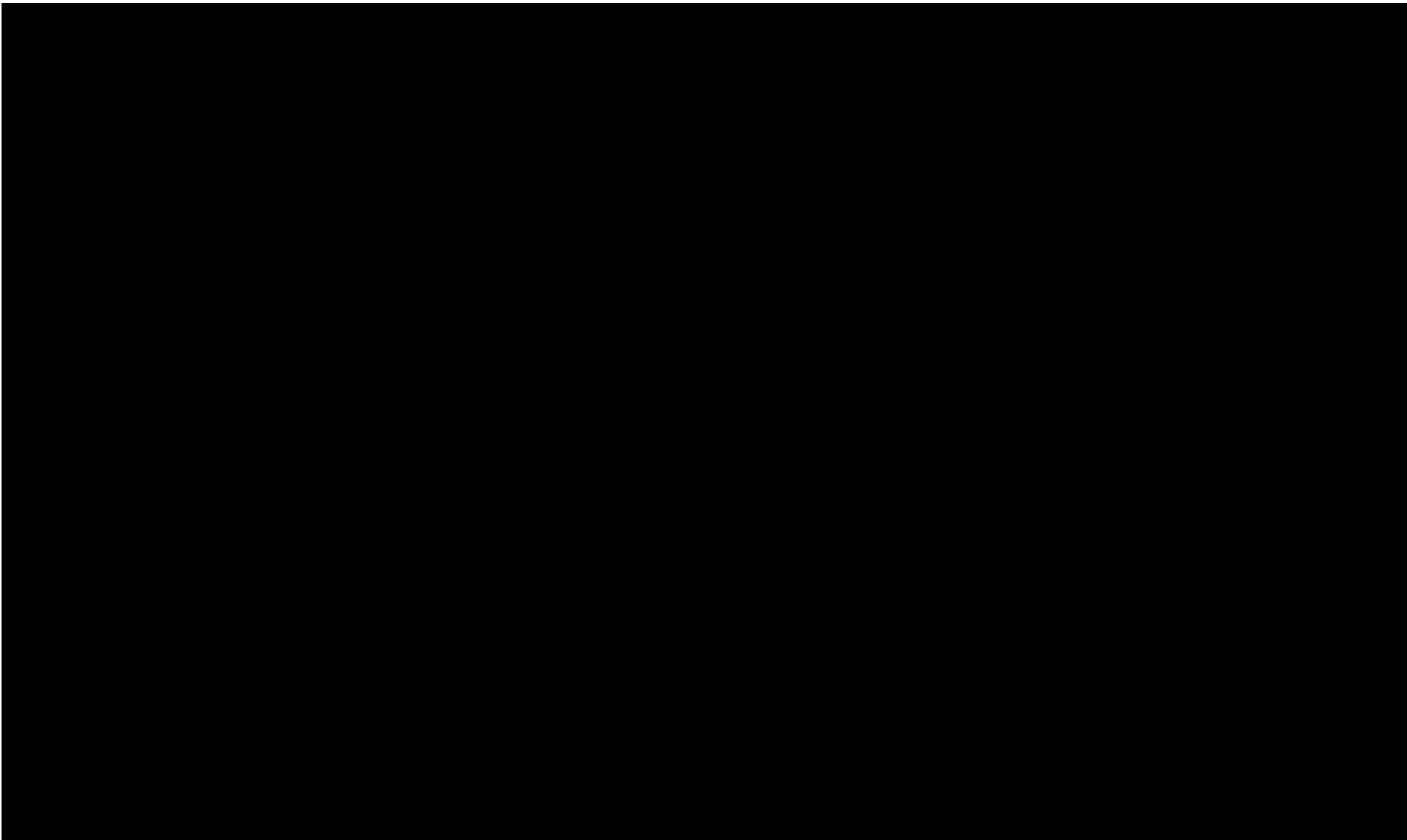
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[REDACTED]

[REDACTED]

[REDACTED]





Other Equipment Procurement Strategy

Attentive Energy has a procurement strategy in place that will facilitate the procurement of key equipment. By leveraging Sponsor TotalEnergies' global relationships and seeking out local supply chain opportunities, Attentive Energy will continue to work towards successful delivery of the Project.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

- Marshalling Port is expected to be AKT, [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

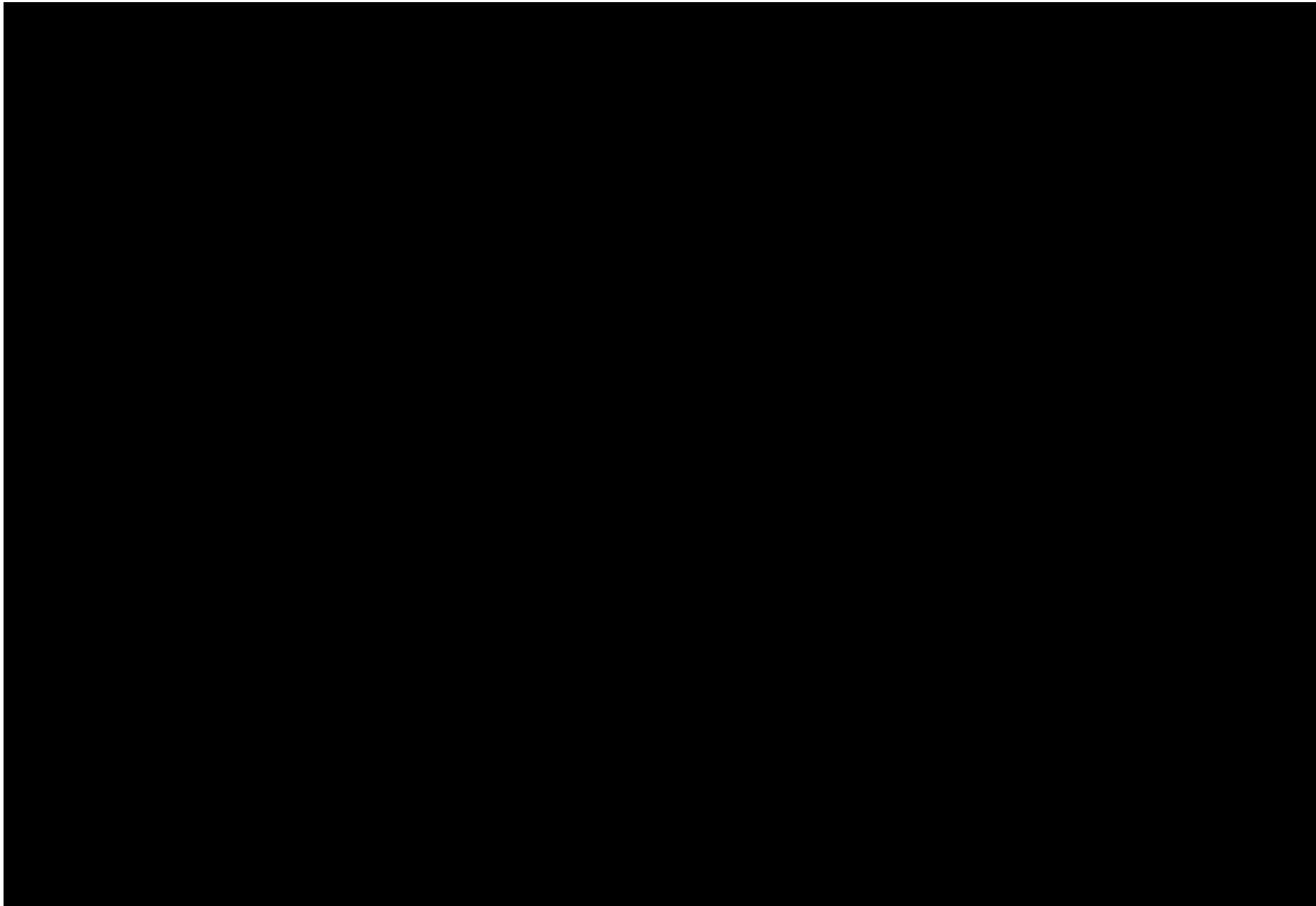
Climate Adaptation and Resilience

Climate risks

From the start of the design process for the Project, Attentive Energy has considered climatic risks that could be encountered by the Project, in consultation with industry assessments such as IPCC reports.



Attentive Energy is developing the Project as a prudent long-term owner/operator, considering existing risks related to weather and climate change. This includes designing and engineering the Project to consider installing equipment at elevations above the flood plain, cable burial risk assessments, and engineering offshore components to withstand storms.



Incorporating climate considerations into design

Attentive Energy has considered the climate risks in Table 11-14 in the design of Project components offshore and onshore that will be constructed and operated as part of the Project. In this, Attentive Energy benefits from the design and operational expertise of its Sponsors, who have specific experience in identifying climate risks and accounting for potential implications in large-scale energy assets, both onshore and offshore.



Attentive Energy leverages Rise's extensive experience in ensuring critical infrastructure at Ravenswood is resilient to climate change to design the project's onshore and nearshore infrastructure with features against natural and man-made threats.

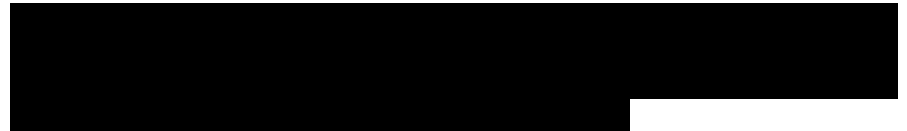
TotalEnergies is very attentive to major offshore technological risks, and accordingly, it follows an integrated process for everything from designing to dismantling its facilities. For each site, TotalEnergies defines a set of future climate scenarios of varying probability, for which it assesses the potential consequences for people, the environment, and property. Based on that analysis, TotalEnergies implements risk reduction measures and defines barriers. These processes will be applied to Attentive Energy, with regular risk assessment updates.

TotalEnergies also takes climate risk into account for onshore facilities, developing a methodology to address the anticipated changes in the climate system and its components in its facility design bases. TotalEnergies evaluates its operating sites' vulnerability to weather events so that their consequences do not affect the installations' integrity or people's safety. Internal studies have identified no facilities that are unable to withstand the consequences of climate change known to date.

Such features will include:



Responsible Disposal and Recycling Design Considerations



[Redacted text]

Globally wind turbine blades are the only major component currently not fully recyclable. Attentive Energy is committed to leverage its Sponsors’ ongoing R&D efforts to create a fully circular economy for the wind industry by working with OEMs to develop designs and materials for fully recyclable blades.

The Project will use an extensive number of renewable material components that are either repurposed at end of life or refurbished and returned to service. Such materials would include:

- PET – Containers, coverings, beverage bottles
- PVC – supply piping, waste piping, architectural surfaces
- Ester insulating/cooling oil – vegetable-based transformer and reactor oil
- HDPE – electrical housings, waterproofing
- Copper – wire and electrical bus material
- Aluminum – electrical bus material
- ABS – molding, trays, signs, fittings, enclosures
- Steel – basic construction material, repurposed as scrap steel for new steel production

Table 11-15 below provides an evaluation of recycling feasibility for the main Project components.

Table 11-15 Recycling Status of Primary Components

Components	Main Materials	Recycling Possible?
WTG	Steel, carbon fiber and/or fiberglass (blades)	Yes (not fully)
Foundation	Steel	Yes
IACs	Copper	Yes
OSS	Steel, copper, aluminum	Yes
Export Cable	Copper	Yes
Onshore Substation	Steel, copper, aluminum	Yes

Attentive Energy offers Proposals in its Submission that include the sourcing of turbine components from LM Wind Power blade and GE Renewables nacelle facilities, through SCIPs and PCPs. GE Renewables is aligned with Attentive Energy in working towards reaching the highest rate of biodegradability, recycling, and upcycling on their products, including the following initiatives:

- [Redacted text]
- [Redacted text]

Furthermore, Attentive Energy benefits from TotalEnergies' involvement in several industry organizations in Europe and the U.S. that explore innovation and responsible development in the offshore wind industry, particularly with regard to blades:

[REDACTED]

TotalEnergies has a proven track record in driving recycling, as evidenced by objectives and projects across industry sectors. Through its initiatives in the petrochemicals sector, TotalEnergies contributes to the circular economy at various points in the value chain: through its purchasing, sales, production and through its own waste management. TotalEnergies has set

various recycling objectives, such as its objective in the biofuels sector where it aims to produce 2 million tons in 2025, and 5 million tons in 2030, in a sustainable way. TotalEnergies is already collaborating with companies on various projects,

[REDACTED] The plant will have the capacity to treat and transform more than 310,000 t of waste per year.

Lighting Controls

Attentive Energy will use lighting controls that prioritize marine and aviation navigation safety, and where practicable, avoid or minimize impacts to wildlife. Lighting for purposes other than marine and aviation navigation safety, e.g., illuminating work areas, will be used only when necessary and will be hooded downward and directed, when possible, to reduce upward illumination and illumination of adjacent waters.

Lighting to illuminate work areas will be limited to the amount and intensity necessary to maintain worker safety and will use automatic timers or motion-activated shutoffs to minimize unnecessary light pollution.

[REDACTED]

In accordance with ORECRFP22-1 requirements, Attentive Energy will include an aviation obstruction lighting system controlled by an ADLS, subject to BOEM approval, that complies with the FAA's Obstruction Marking and Lighting Advisory Circular (AC 70/7460-1M). The ADLS will be developed in close coordination with the WTG supplier. The ADLS is

designed to detect aircraft as they approach an obstruction or group of obstructions; these automatically activate the appropriate obstruction lights until they are no longer needed by the aircraft. This technology reduces the visual impacts of nighttime lighting, reduces impacts to avian species including migratory birds, and extends the life expectancy of the obstruction lights.

[Redacted]

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[Redacted]

[Redacted]

References

New York Public Service Commission Order on Power Grid Study Recommendations (Power Grid Study Order)



https://totalenergies.com/sites/g/files/nytnzq121/files/documents/2022-05/Sustainability_Climate_2022_Progress_Report_accessible_version_EN.pdf
(Retrieved on 01/10/2023)

SECTION 12

PROJECT SCHEDULE



Section 12 Table of Acronyms

AC	Alternating Current
AMMM	Avoidance, Minimization, Mitigation, and Monitoring Measures
BOEM	Bureau of Ocean Energy Management
CECPN	Certificate of Environmental Compatibility and Public Need
CFT	Call for Tender
Climate Act	Climate Leadership and Community Protection Act
COD	Commercial Operation Date
COP	Construction and Operations Plan
CPT	Cone Piezo Test
CRIS	Capacity Resource Interconnection Service
CZM	Coastal Zone Management
CZMA	Coastal Zone Management Act
DOD	U.S. Department of Defense
EIS	Environmental Impact Statement
EMP	Environmental Mitigation Plan
EPA	Environmental Protection Agency
EPC	Engineering, Procurement and Construction
EPCI	Engineering, Procurement, Construction & Installation
ERIS	Energy Resource Interconnection Service
FC	Financial Close
FEED	Front End Engineering Design
FID	Final Investment Decision
G&G	Geophysical and Geotechnical
█	█
HSE	Health, Safety, and Environment

HVDC	High Voltage Direct Current
IAC	Inter-Array Cable
IHA	Incidental Harassment Authorization
ITC	Investment Tax Credit
kV	Kilovolt
LLI	Long Lead Items
LSS	Land Substation
metocean	Meteorological and/or Oceanographic
MP	Monopile
NARW	North Atlantic Right Whale
NEPA	National Environmental Policy Act
NJDEP	New Jersey Department of Environmental Protection
NMFS	National Marine Fisheries Service
NOI	Notice of Intent
NYCDOT	New York City Department of Transportation
NYSOGS	New York State Office of General Services
NYSOPRHP	New York State Office of Parks, Recreation and Historic Preservation
OATT	Open Access Transmission Tariff
OCS	Outer Continental Shelf
OEM	Original Equipment Manufacturer
OSS	Offshore Substation
PCP	Purchase Commitment Proposal
PCPT	Piezo Cone Penetration Test
PEIS	Programmatic Environmental Impact Statement
POI	Point of Interconnection
PRM	Project Risk Management
PV	Plan View

RFI	Request for Information
ROD	Record of Decision
SAP	Site Assessment Plan
SCIP	Supply Chain Investment Plan
SHPO	State Historic Preservation Office
SOR	Statement of Requirement
SPI	Sediment Profile Imaging
SRIS	System Reliability Impact Study
T&I	Transportation & Installation
TGP	TotalEnergies Global Procurement
TP	Transition Piece
USACE	U.S. Army Corps of Engineers
USCG	U.S. Coast Guard
USFWS	U.S. Fish and Wildlife Service
UXO	Unexploded Ordinance
WTG	Wind Turbine Generator
WTIV	Wind Turbine Installation Vessel

12. PROJECT SCHEDULE

Ability to Meet COD

Attentive Energy's project maturity and approach to project development facilitates the identification and avoidance of many schedule risks faced by offshore wind projects in the U.S. Attentive Energy benefits from TotalEnergies' global experience, Rise's experience in New York and the U.S., and the Project's maturity guiding the project schedule. Attentive Energy's schedule builds off of years of pre-development efforts performed ahead of Lease Area acquisition that enable the Project to be delivered by its target COD. Attentive Energy has integrated proven project controls best practices, enabling it to provide project leadership with the necessary tools to manage the development and execution through the key phases.



Attentive Energy has developed a detailed planning program to guide Project activities and to fulfill its commitments to New York State. Proactive planning is critical to the success of complex large-scale energy infrastructure developments, and maintaining an accurate and viable project schedule is an important factor in controlling project costs and achieving key execution milestones.

Based on early monitoring of the domestic U.S. offshore wind market, combined with extensive involvement in offshore wind and other large-scale energy infrastructure markets globally through TotalEnergies, Attentive Energy is confident that the Project can be developed, financed, and constructed within a commercially reasonable timeframe that supports New York's 70 x 30 goal, as part of the Climate Act.

Attentive Energy will thoroughly develop and maintain the Project's program of activities to ensure effective use of project resources and timely

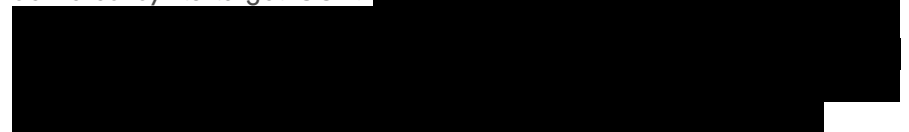


WTG staging and marshaling

interface with key suppliers and stakeholders, and to provide confidence to New York stakeholders that Attentive Energy will deliver on its promises. In accordance with resource planning needs, Attentive Energy will staff the Project with appropriate personnel throughout each phase of the Project, supported by its Sponsors including technical, procurement, and project control specialists within TotalEnergies.

Attentive Energy's COD milestone is based on an intensive review of interdependencies, logic ties and expected durations of project drivers, including design, permitting, financing, procurement, fabrication, installation, and commissioning activities, both driven by Attentive Energy and set durations for processes led by external stakeholders.

Attentive Energy's schedule builds off of years of pre-development efforts performed ahead of Lease Area acquisition that enable the Project to be delivered by its target COD.



- First, Attentive Energy will develop the Project COP in accordance with the draft BOEM NOI Checklist, which identifies the components and supporting materials that the COP submission must include to move forward with BOEM’s NEPA review for the COP. Additional detail on these activities is provided in Section 10.
- Second, Attentive Energy is monitoring proposed changes to rules, including BOEM’s Notice of Proposed Rulemaking for its Renewable Energy Modernization Rule, that may result in changes to permitting-related requirements or that may support or further expedite the Project’s permitting schedule.

[Redacted]

[Redacted]

Attentive Energy has a robust understanding of the market related to the procurement of equipment and material for the Project.

[Redacted]

[Redacted]

Rise has performed detailed due diligence and design development around State waters and onshore portions of the Project to mitigate risks related to route viability, onshore cable landing, the converter and related AC facilities, interconnection, and POI development, including the submission of a New York State Article VII Application. See Sections 8, 9, and 11 for additional detail on these topics.

Attentive Energy has performed a number of engagements, consultations, and other activities to create and validate the schedule, including:

- Preparing a multi-year geophysical and geotechnical survey schedule for the Lease Area and export cable route to meet agency requirements for phased development; this multi-year survey schedule also informs the procurement strategy,
- Preparing detailed timelines for environmental surveys and studies, as well as anticipated Federal and State agency reviews based on previous project timelines, discussions with agencies and technical working groups, established regulatory timelines, and the incorporation of tools and processes aimed at improving efficiencies during the permitting process;

- [Redacted]

[Redacted]

[Redacted]

[REDACTED]

[REDACTED]

[REDACTED]

At each phase of the Project, as Attentive Energy continues to collaborate with key partners, refine assumptions, and advance detailed design and major procurement activities, the schedule will be continuously updated. On an ongoing and iterative basis, Attentive Energy will assess the schedule against baselines to forecast completion dates, determine any deviations, and implement appropriate corrective actions.

[REDACTED]

In addition to the planning tool, Attentive Energy will utilize its comprehensive risk management process and dedicated resource to manage potential and real risks to the Project and the schedule. Attentive Energy will prepare and review the following on a regular basis via a project risk committee:

- Identification of additional risks and review of existing risks
- Establishment of potential impact scenarios per risk
- Identification of potential actions to mitigate each and every risk, with associated resources required

Attentive Energy will perform schedule risk analyses at regular intervals. These analyses will support gate decisions to assist in identifying the risks with the greatest potential to impact the critical path. Regularly assessing risks and identifying mitigation measures will help ensure that the Project meets all critical path milestones. TotalEnergies' global experience - both with offshore wind projects and other large-scale energy projects - will inform the Project risk register. TotalEnergies' experience will be leveraged to identify potentially significant risks to the Project, drawing from experience with other similar offshore developments.



Offshore export cable laying operations

Overview of Resources, Process, and Schedule

Attentive Energy has summarized the schedule in high-level phases.

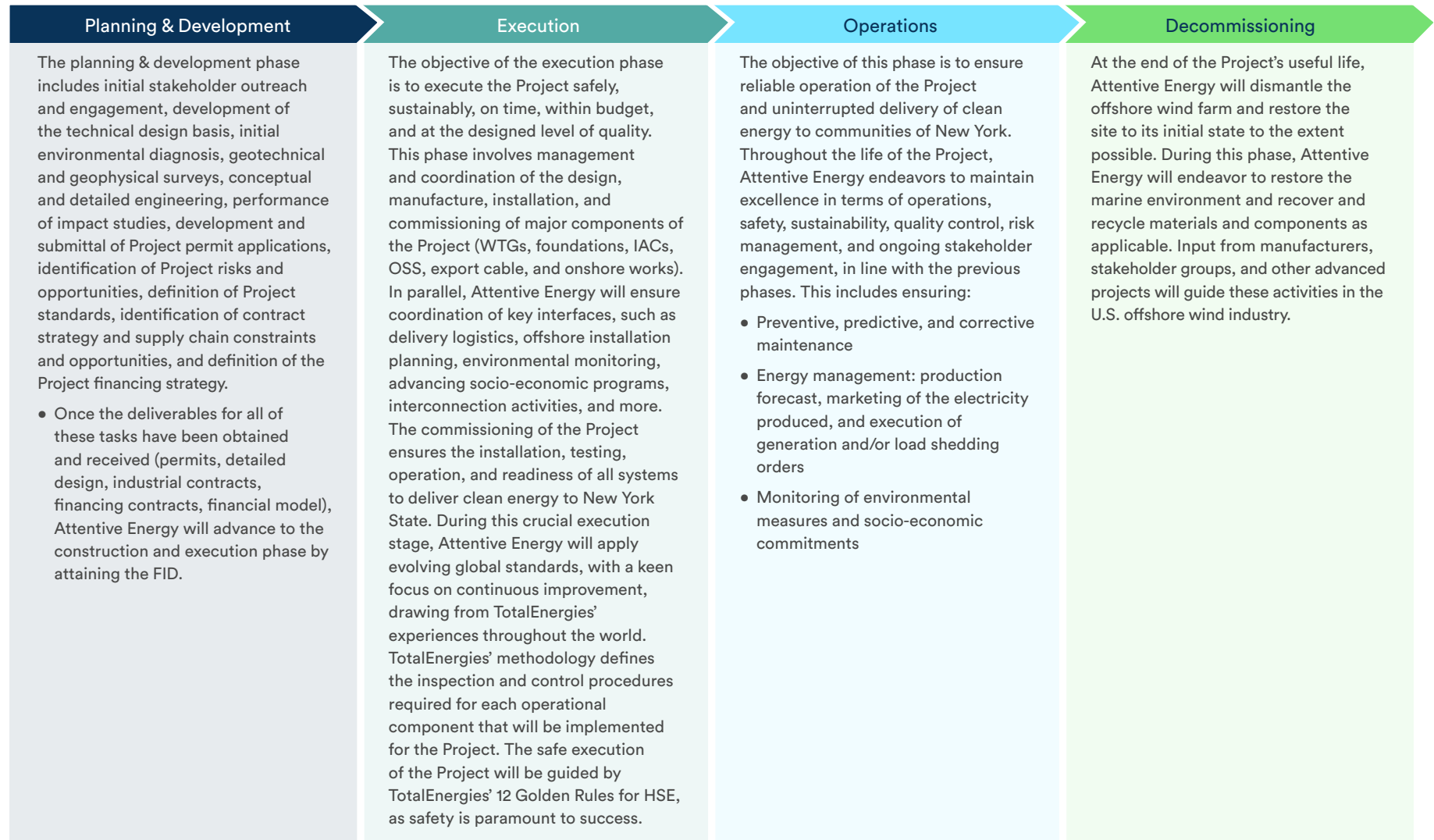
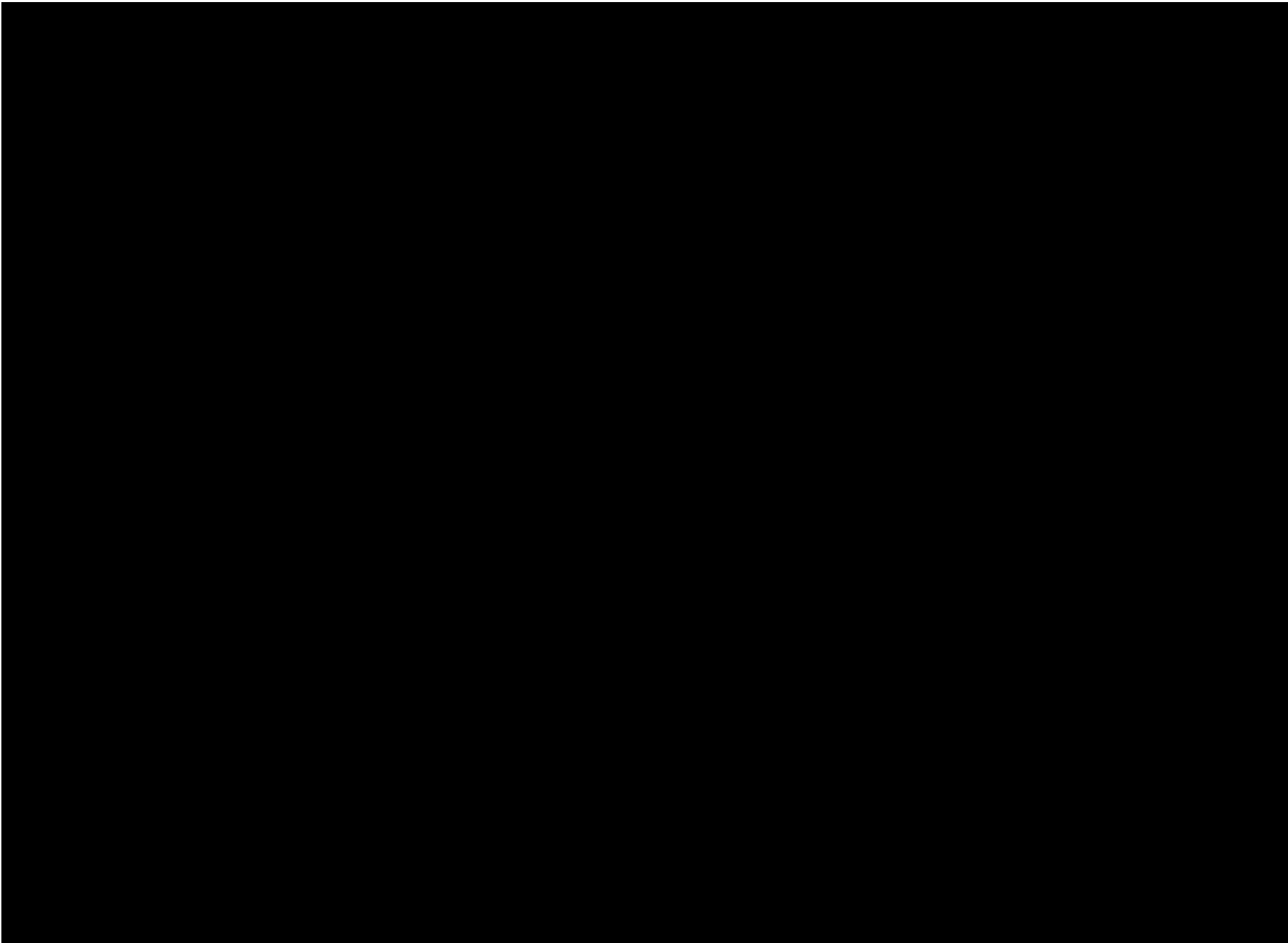


Figure 12-1 Phased Schedule



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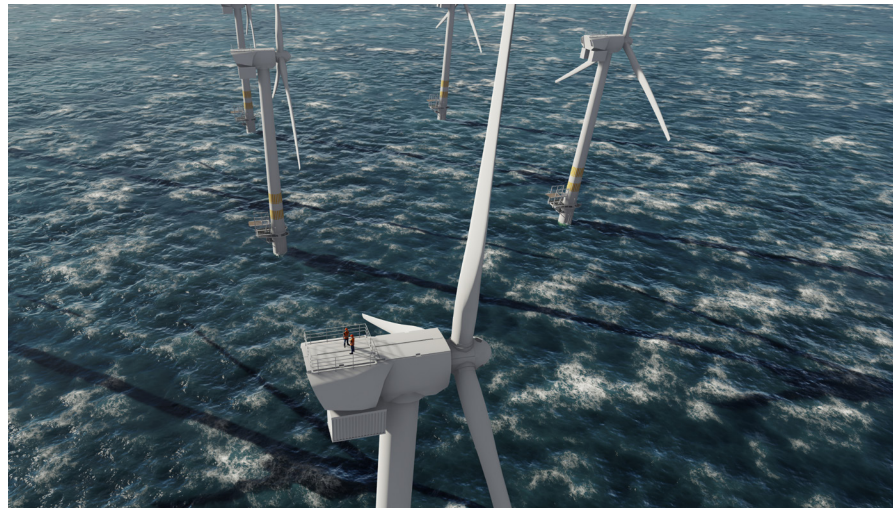
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Operators on an offshore WTG

SECTION 13

CONSTRUCTION AND LOGISTICS



Section 13 Table of Acronyms

AC	Alternating Current
████	████████████████████
AKT	Arthur Kill Terminal
████	████████████████████
████	████████████████████
BOEM	Bureau of Ocean Energy Management
CBP	U.S. Custom's and Border Protection
CBRA	Cable Burial Risk Assessment
CECPN	Certificate of Environmental Compatibility and Public Need
CLV	Cable Laying Vessel
COD	Commercial Operation Date
████	████████
CTV	Crew Transfer Vessel
DMEC	Dutch Marine Energy Center
EDA	Economic Development Authority
EPC	Engineering, Procurement and Construction
EPCI	Engineering, Procurement, Construction & Installation
FFPV	Flexible Fallpipe Vessel
FNP	Federal Navigation Project
ft	Feet
GE	General Electric
HLTV	Heavy Lift Transport Vessel
HLV	Heavy Lift Installation Vessel
HVDC	High Voltage Direct Current
IAC	Inter-Array Cable
IAG	Inter-Array Grid
ISPS	International Ship and Port Facility Security

kV	Kilovolt
lb	Pound
m	Meters
MEC	Munitions and Explosives of Concern
MP	Monopile
nm	Nanometers
NMFS	National Marine Fisheries Service
NYCDOT	New York City Department of Transportation
NYPSC	New York Public Service Commission
O&M	Operations & Maintenance
OCV	Offshore Construction Vessel
OEM	Original Equipment Manufacturer
OSS	Offshore Substation
OSV	Offshore Service Vessel
PLGR	Pre-Lay Grapnel Run
PSV	Platform Supply Vessel
QRX1	Queensboro Renewable Express 1
Ro-Ro	Roll-on/Roll-off
ROV	Remotely Operated Vehicle
SCADA	Supervisory Control and Data Acquisition
SCIP	Supply Chain Investment Plan
SIMOX	Sustainable Installation of XXL Monopiles
████	████████████████████
SOV	Service Operation Vessel
SPMT	Self-Propelled Modular Transporter
sqft	Square Feet
T&I	Transportation & Installation
TP	Transition Piece

USACE-NYD	United States Army Corps of Engineers New York District
USCG	U.S. Coast Guard
USV	Uncrewed Surface Vessel
UXO	Unexploded Ordinance
VOIP	Voice over Internet Protocol
W2W	Walk-to-Work
WTG	Wind Turbine Generator
WTIV	Wind Turbine Installation Vessel

13. CONSTRUCTION AND LOGISTICS

Attentive Energy and its Sponsors have invested years in the development of this construction and logistics plan for the Project, which has been advanced to ensure timely completion of Project construction activities and adherence to industry best practices. Consideration has been given to the characteristics of the Lease Area, proximity to suitable marine terminals, regional historical weather data, and the availability of necessary equipment and vessels.

Attentive Energy benefits from the Sponsors’ deep global experience in constructing and operating complex energy infrastructure assets. TotalEnergies and Rise each provide experience in the execution of offshore construction activities in a manner that is both cost-effective and minimally disruptive. The Project’s construction and logistics plan follows TotalEnergies’ high standards, shaped by decades of experience transporting, storing, deploying, and installing offshore energy projects and working with specialized marine construction equipment. The Project also draws on the U.S. offshore wind experience brought to bear by the experience among Rise personnel who led the successful construction of the Block Island Wind farm - the first American offshore wind farm – as well as Rise’s experience developing onshore energy infrastructure projects in New York City.

Attentive Energy will tap into its Sponsors deep expertise in offshore complex construction and logistics and the solid relationships with the associated supply chain, this includes intimate local understanding of the US in general and NY in specific, alongside global expertise in deploying offshore structures utilizing specialized marine construction equipment in a vast number of successfully delivered offshore energy projects across the globe.

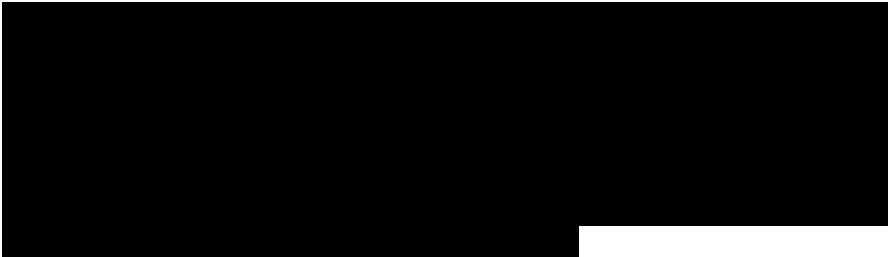
Attentive Energy is committed to learning from other offshore wind projects in the region, monitoring supply chain advancements, and capitalizing on opportunities to optimize installation techniques for major Project components. The proposed design, methods, and equipment outlined herein are informed by current industry best practices, the latest U.S. regulations and guidance, and the actual execution approach will

continue to be refined as the Project advances. Attentive Energy actively reviews U.S. Customs and Border Protection rulings on offshore wind activity governed by the Jones Act and will draw on TotalEnergies’ global vessel management experience to ensure the vessel deployment strategy conforms to all applicable U.S. law.

This plan centers around AKT, which Attentive Energy is committing to use for this Project [REDACTED]

[REDACTED] AKT is a proposed purpose-built offshore wind turbine marshalling port on Staten Island that will be strategically located outside of all bridge restrictions to offer an efficient and cost-effective logistics solution that minimizes risks offshore by maximizing the activities that can be performed onshore.

Where the Northeast U.S. has limited availability of suitable, high-capacity port facilities for the staging, assembly, and deployment of offshore wind turbines, AKT will be a centerpiece of New York’s offshore wind supply chain by bringing needed capacity directly in the nexus of offshore wind deployments to service the industry for decades to come. Attentive Energy’s construction and logistics plan is centered around use of AKT, which the Project plans to use as its marshalling port [REDACTED]. AKT is offered as a SCIP in many Proposals in this Submission, and Attentive Energy is committed to supporting AKT even beyond the commitment included in its Proposals with the AKT SCIP, to ensure AKT can close on its required financing needs. The construction of AKT is projected to bring over \$ [REDACTED] to New York State and estimated [REDACTED], direct and unique jobs created in New York over a [REDACTED]. In creating unrestricted marshalling capacity for more Northeast offshore wind projects to perform the staging, assembly, testing, and deployment of offshore wind turbines in the State, AKT is expected to support over [REDACTED] jobs at the port and on vessels operating out of the facility for at least a [REDACTED]. Bringing the offshore wind opportunity directly into Staten Island will allow the industry to further strengthen across all of NYC’s boroughs while creating decades of jobs and economic investment.



Major Deployment Tasks & Equipment

Attentive Energy’s construction and logistics plan is based on experience from Sponsors in constructing and deploying offshore megaprojects and offshore wind projects globally, combined with the local know-how of working within the U.S. and New York State.

Safety: A Core Value

TotalEnergies fosters a workplace safety culture throughout the company with its 12 Golden Rules, which set out best practices for all employees to follow, whatever their business or site. The Golden Rules, established on the basis of lessons learned, have been adopted by Attentive Energy and are essential to achieving Attentive Energy’s Project goals in a way that is safe and sustainable.

Safety is the core component of TotalEnergies’ responsibility; it is also the foundation of its long-term viability. A company that is not safe or reliable is not a sustainable company, and Attentive Energy fully embraces the TotalEnergies safety values and respect for the associated Golden Rules.

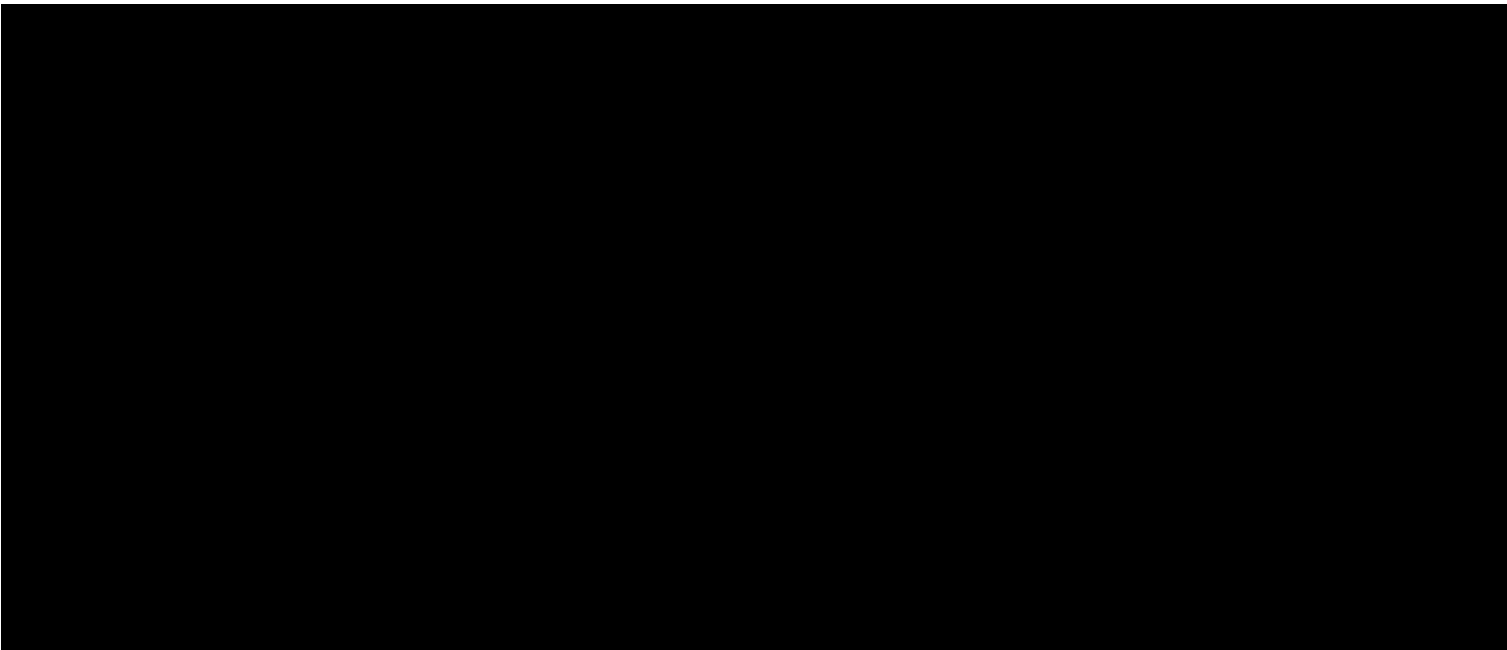
Attentive Energy is implementing a comprehensive HSE management system for the Project, structured in line with the TotalEnergies Group HSE management system framework, One-MAESTRO, which is composed of 10 Principles specific to the HSE domain, full details of which can be seen in the safety attachment 3-D. This management system is applied across all stages of the project including field development, construction and operations and is designed to fully identify and control HSE risk associated with activities off and onsite. Central to ensuring safety across the Project is confirming that its selected construction and logistics contractors operate under similarly robust HSE management systems and, where necessary, improve their own practices and procedures to align with Attentive Energy requirements.

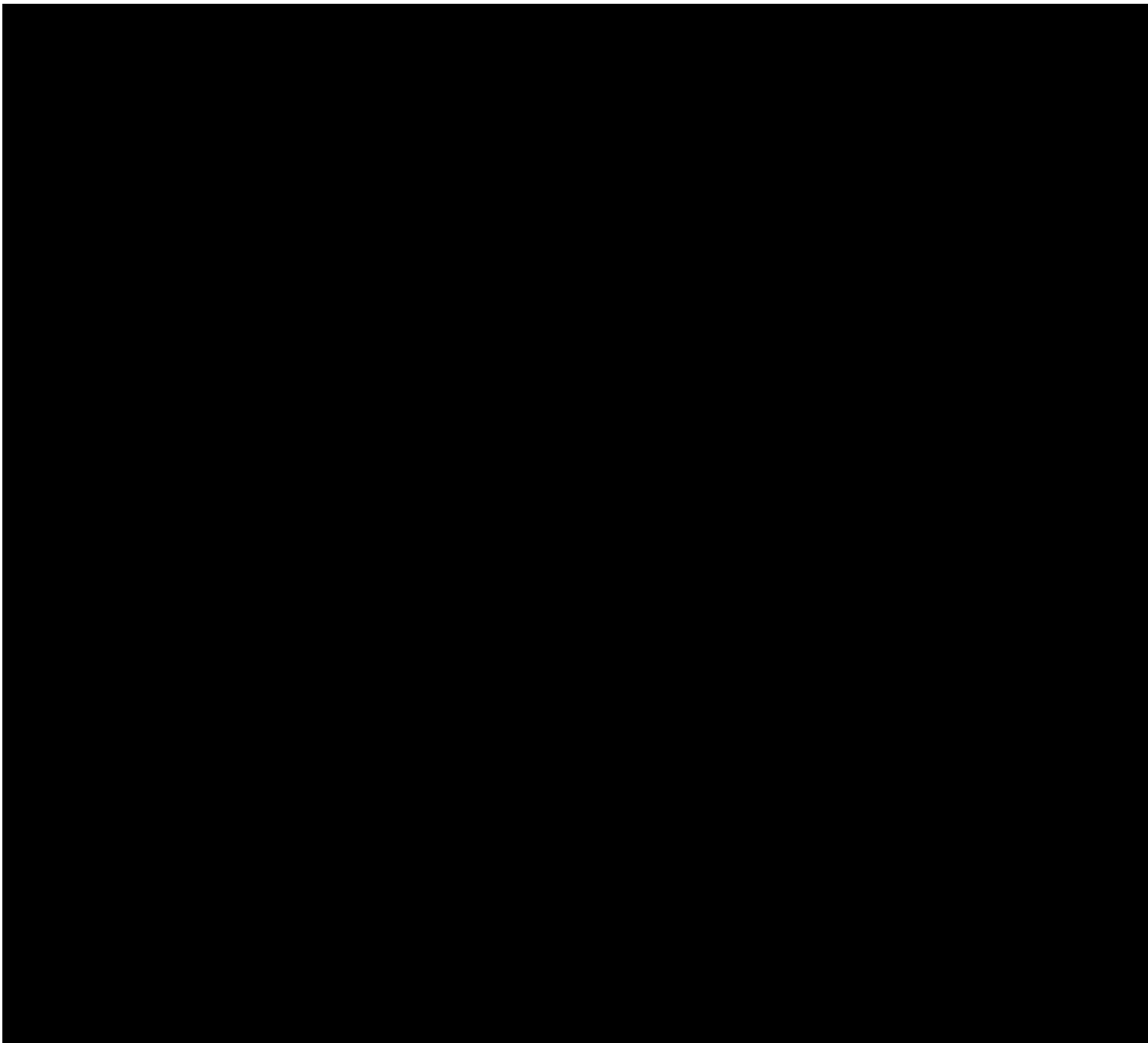
Evaluation of a contractor’s HSE management system forms a critical part of the project procurement process and requirements are defined in detail within project contracts. Attentive Energy has the tools in place to manage HSE within the Project, including a documented project risk identification process, implementation of a risk-based audit program during project delivery, application of a Permit To Work system, specific task-based risk assessment process, and a methodology to learn from events or incidents. In addition, all activities integrate an ongoing process of risk awareness training and competency improvement supported by the application of key management practices (for example, STOP work authority, anomaly reporting and TotalEnergies Golden Rules). These HSE risk management activities are complemented by the presence of Attentive Energy HSE representatives within the construction and logistics activities and sites to provide ongoing HSE oversight and guidance with the aim of delivering the Project with consideration for Safety at its core.

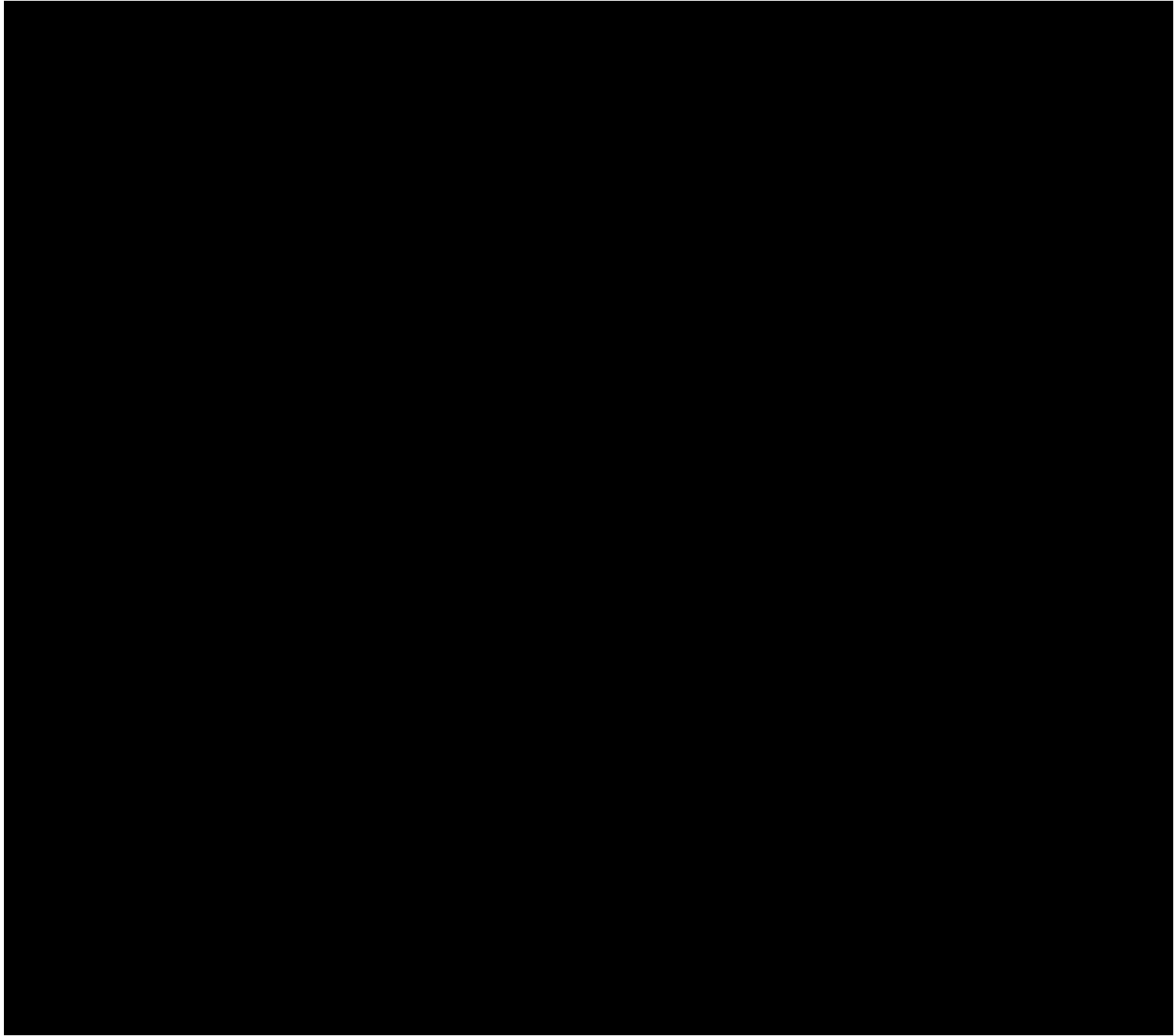


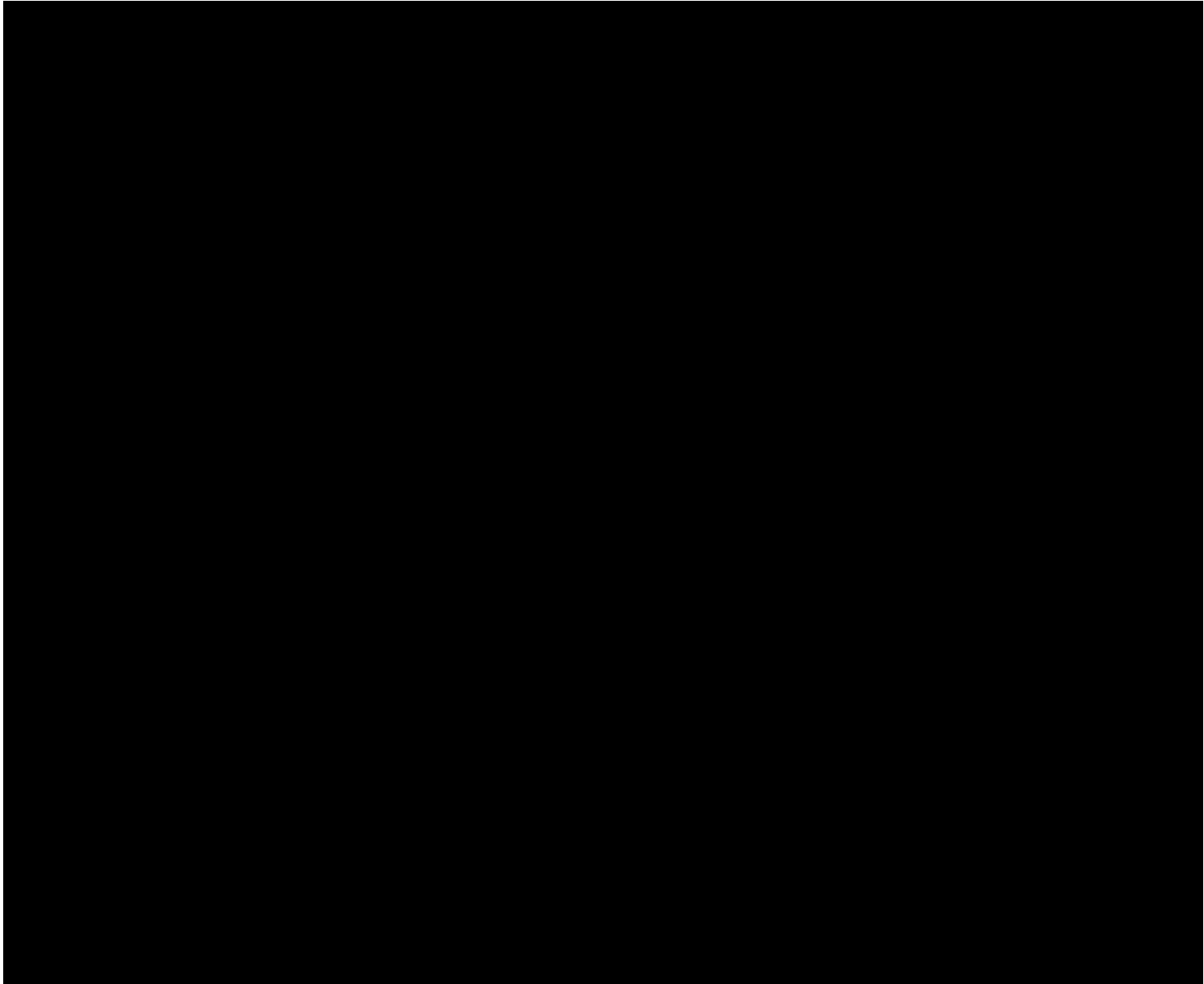
Attentive Energy has organized the Project's major work packages into the following categories:

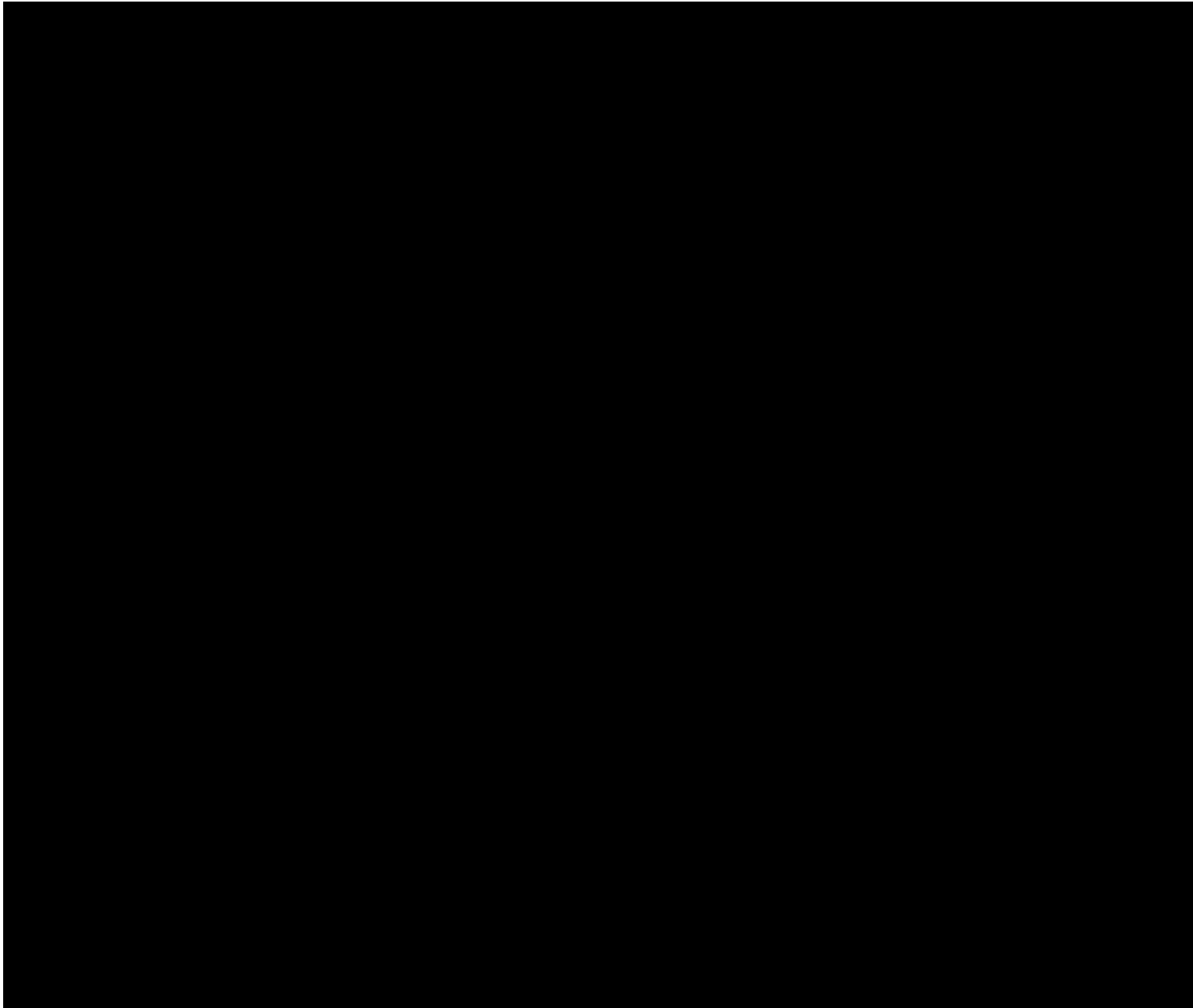
- WTGs
- Foundations
- IACs
- OSS
- Export cables
- Onshore landfall and cable routing
- Onshore substation
- Grid interconnection and network upgrades

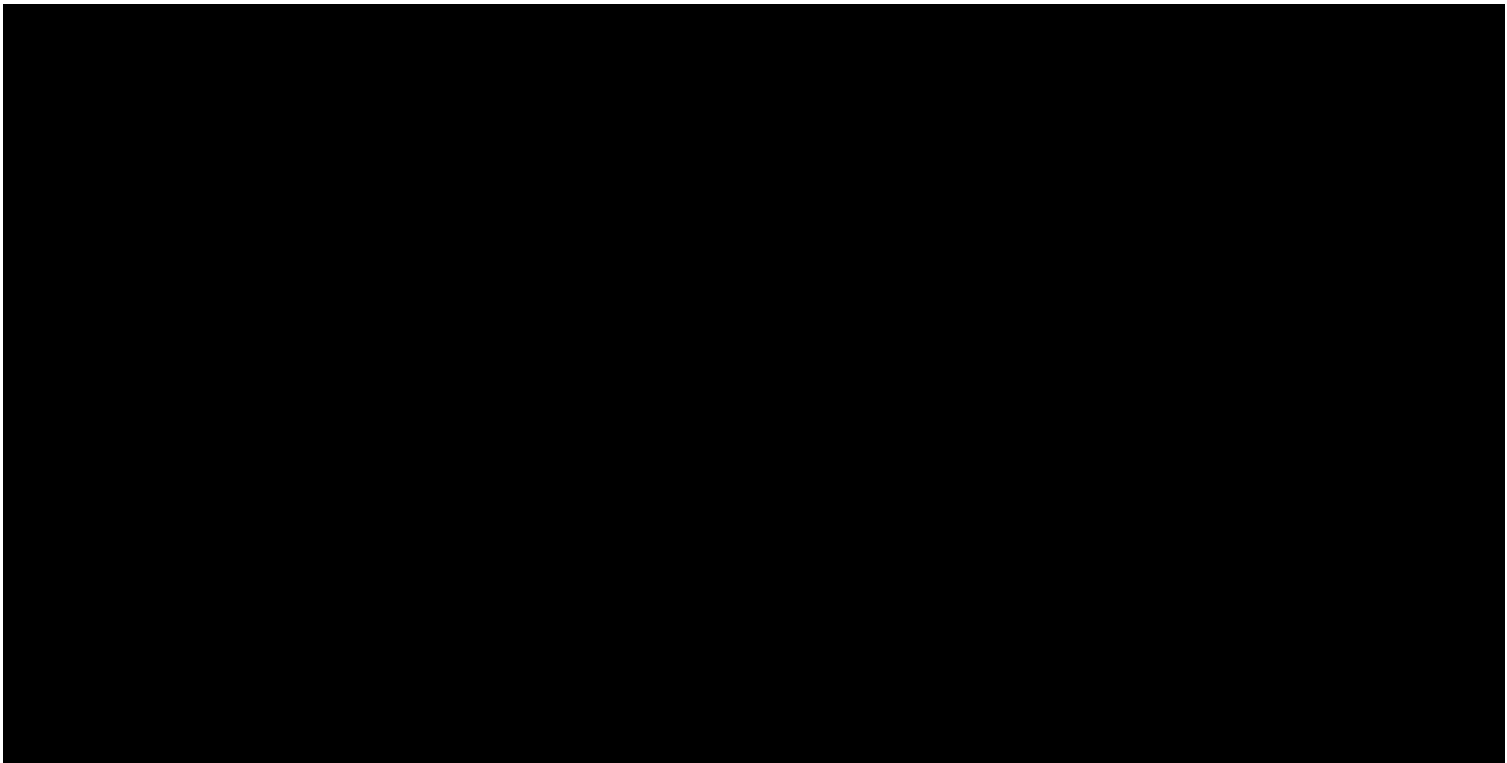






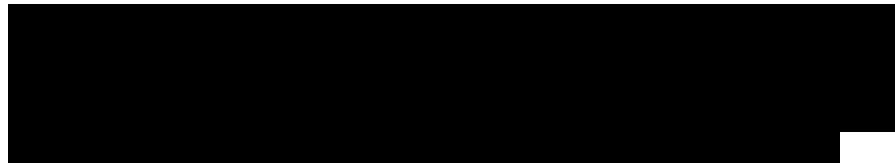
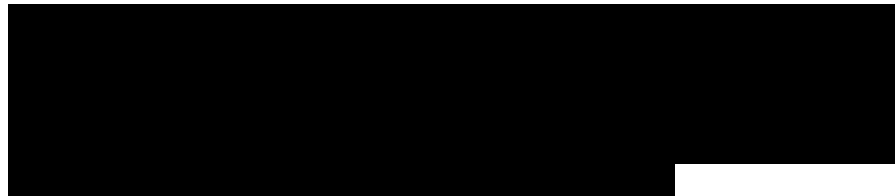






Contracting and Project Management

Attentive Energy is uniquely positioned to execute and deliver the Project by leveraging the global and local project management experience and resources of its Sponsors. TotalEnergies and Rise both bring experience in the execution of major construction activities in a manner that is simultaneously cost-effective and minimally disruptive. TotalEnergies provides Attentive Energy with unparalleled global procurement reach, and a deep understanding and global experience in constructing and operating complex energy infrastructure assets both on and offshore. Attentive Energy will also have access to Rise's power industry experience, full site control of Ravenswood, and long history of operating in New York.



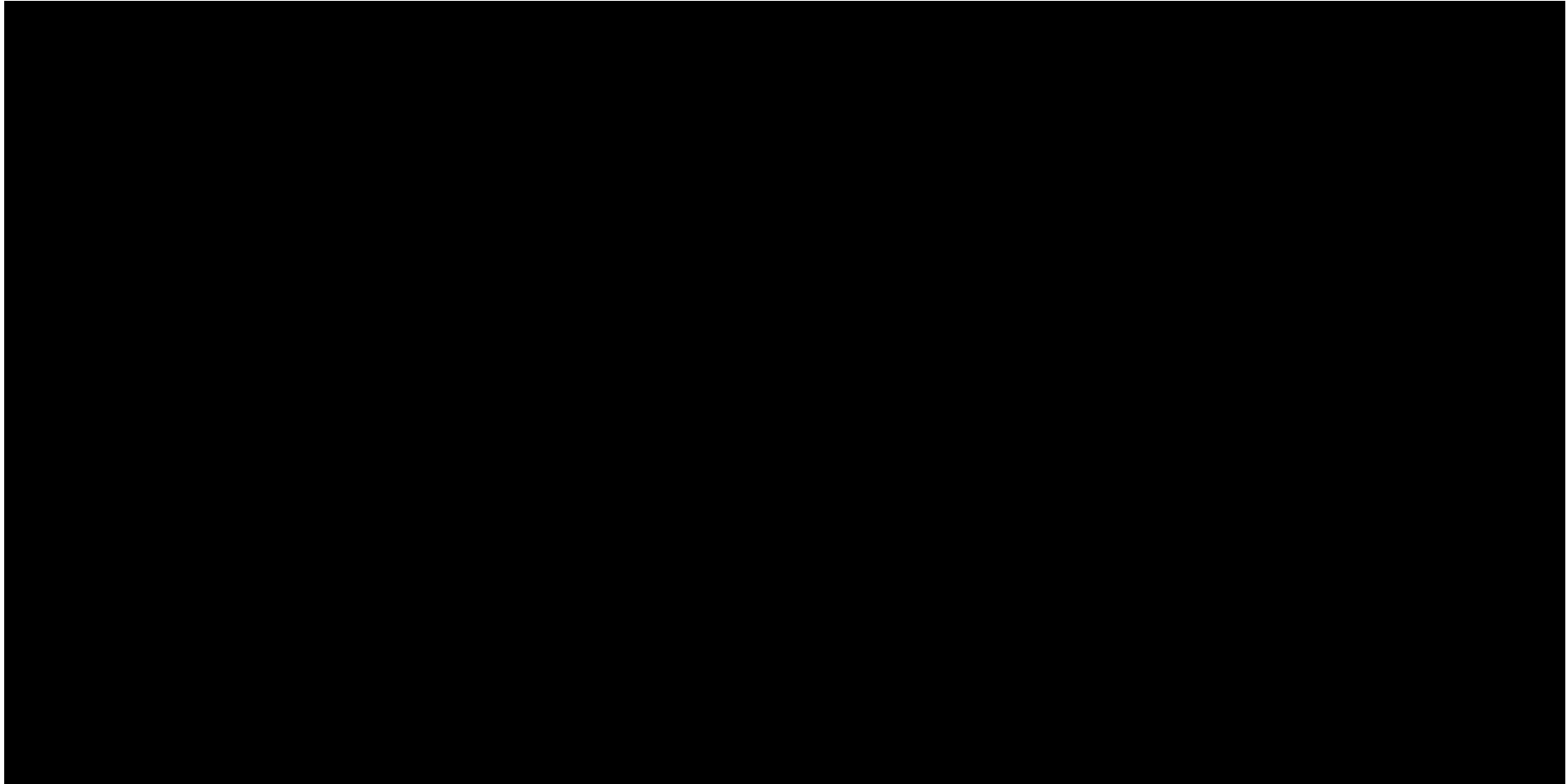
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Marine Terminals

Attentive Energy has spent years investigating optimal logistics for its Project and will lean on local expertise and resources to make use of New York marine terminals and waterfront ports for offshore activities where possible—from survey deployment, during construction, and through operations.

Arthur Kill Terminal: Attentive Energy’s Investment in a Strategically Located Port Solution



Figure 13-2 Aerial view of the proposed AKT footprint (included in AKT SCIP)

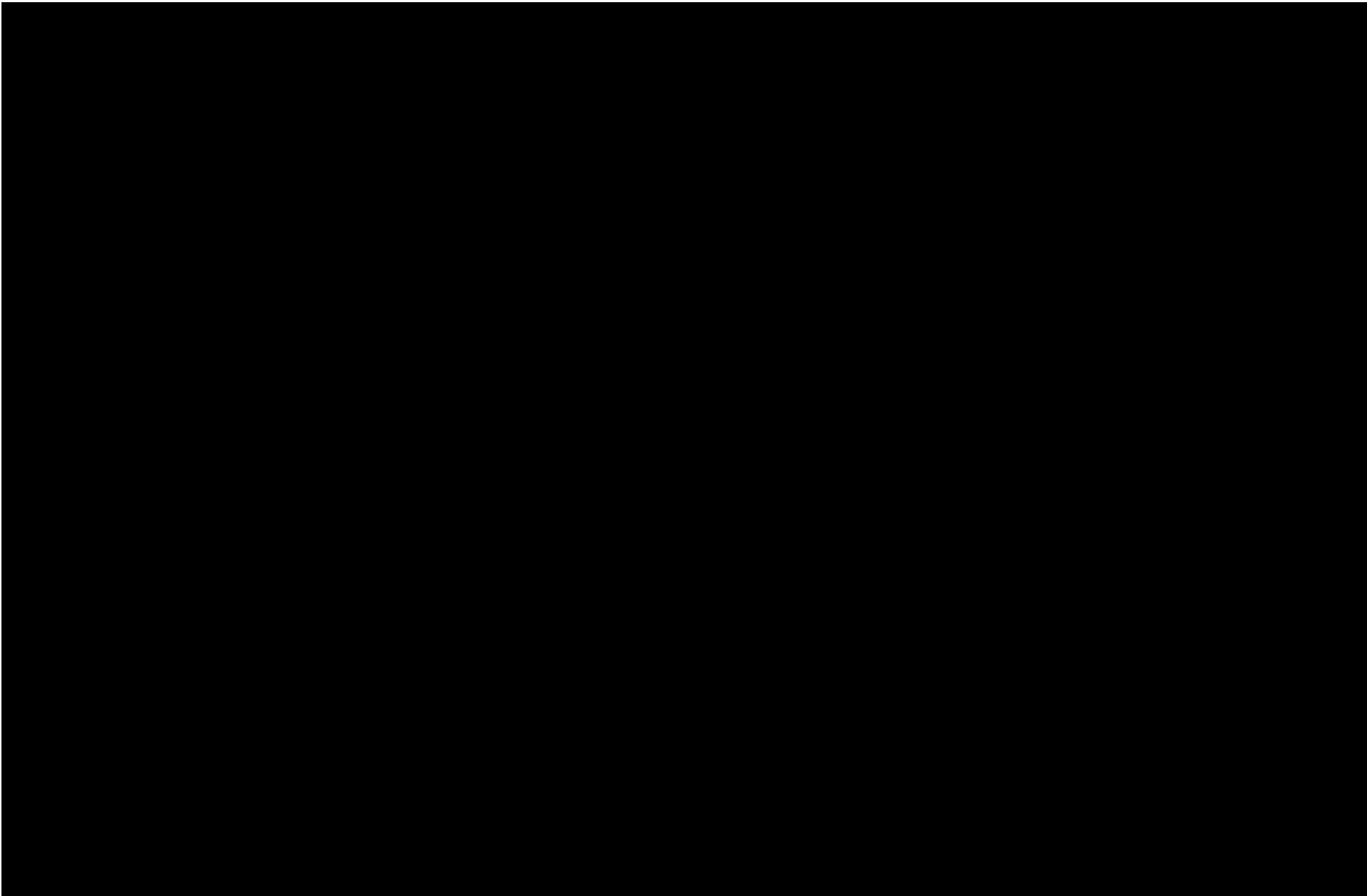
[REDACTED], in 2021 AOT entered an agreement with Apollo Global Management, an investment firm, who has since funded the development of AKT and has further increased the financial certainty in developing the port. In October 2022, AOT was awarded \$48 million through the Department of Transportation’s Port Infrastructure Development Program, securing a significant portion of the funding needed to construct the facility.

AKT, when constructed, will be a 32-acre, high-capacity marshalling port on the west side of Staten Island along the Arthur Kill waterway and south (outside) of the Outerbridge Crossing and all height restrictions. The site’s location offers many unique, long-term benefits for New York State:

- It is outside of any New York area bridges, making it the only marshalling site in New York State and one of only a limited number of locations on the US East Coast capable of accommodating vessels of the size necessary to install large turbines – including future U.S.-flagged WTIVs.
- Its proximity to New York Bight lease areas will reduce transit times and result in more cost-effective and safer offshore operations.
- Its location in Staten Island solidifies the borough’s unique role in serving the offshore wind industry and brings enormous economic opportunities, through hundreds of construction jobs created to build the facility and sustained revenue generation among neighboring communities during decades of offshore wind marshalling operations.

In addition, AKT has been specifically designed to support the heavy loads of offshore wind components. Its design is informed by extensive collaboration with WTG OEMs – [REDACTED] – and will be built to accommodate future generations of WTGs. These critical factors position AKT and New York to support a vast pipeline of other New York Bight and regional northeast offshore wind projects. By using AKT as the primary marshalling site for the Project’s WTG installation campaign, Attentive Energy can achieve desired cost-savings and contribute to regional economic benefits.

Additional information on Attentive Energy’s AKT SCIP is provided in [REDACTED].



Ravenswood: Construction Support and an O&M Hub

The Ravenswood O&M Hub, located on the East River in Long Island City, Queens will be the home base for Attentive Energy's operations and maintenance activities.

[REDACTED]

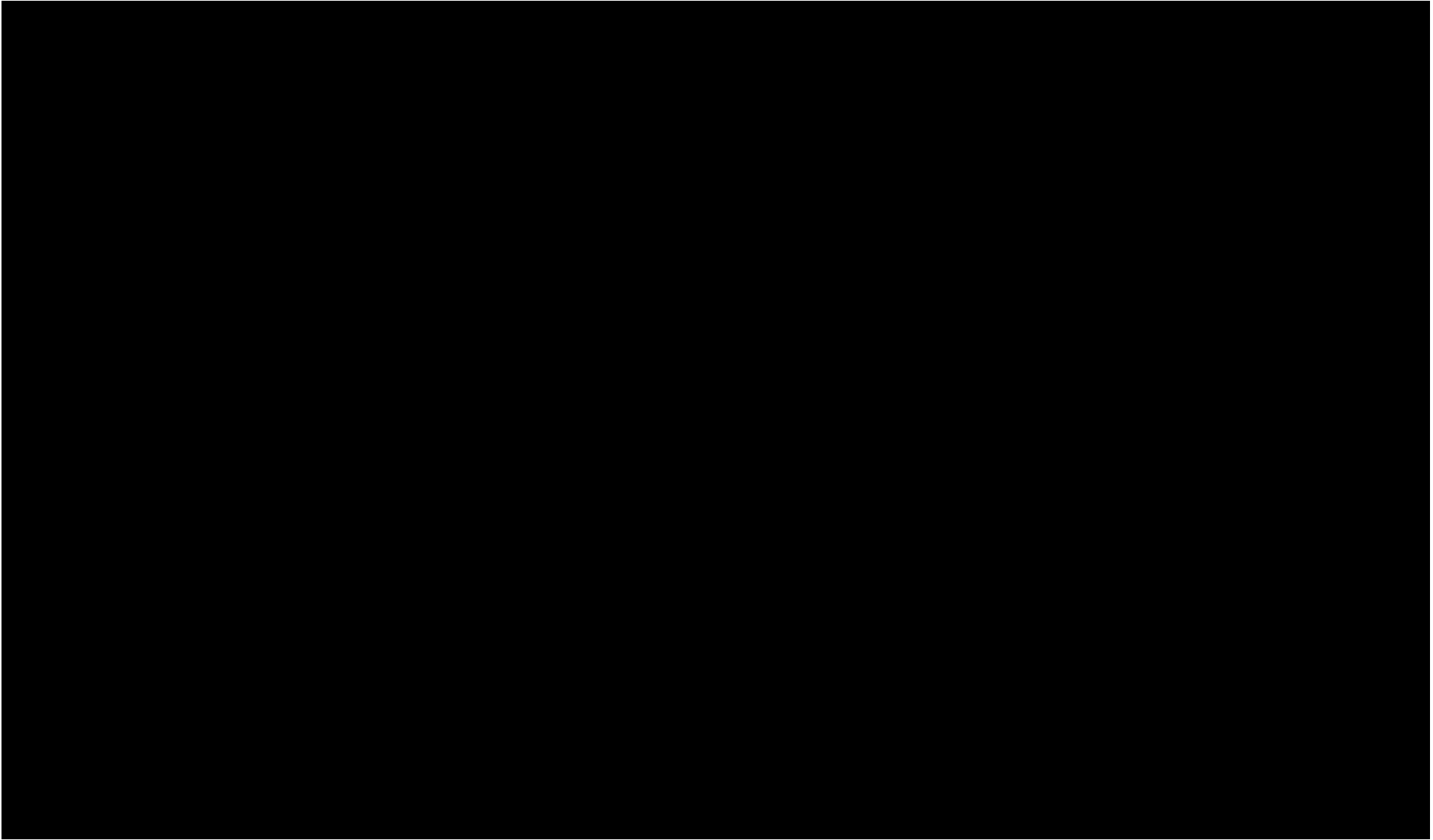
[REDACTED]

[REDACTED]

[REDACTED]

Attentive Energy's analysis of marshalling port assumptions and simulation modeling – resulting in the determination that AKT is the most flexible and cost-effective solution for the Project – has since been supported by analysis by consultants who have led major offshore wind ports assessments for New York State and Massachusetts, [REDACTED]

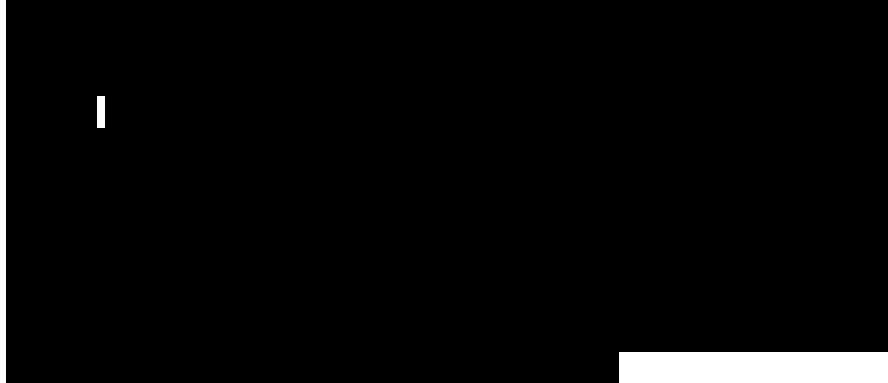
19 A Port Location Simulation Study that models installation strategies and port alternatives is provided as Attachment 13-A.



Marine Terminal & Waterfront Facility Rights and Site Control Status

Site Control at AKT

Attentive Energy is committed to the development, construction, and operation of AKT to support offshore wind development off New York.



Site Control at Ravenswood

The Ravenswood O&M Hub will be located at Ravenswood, which is wholly owned by Rise. Attentive Energy may additionally utilize Ravenswood as a construction support base and during commissioning. For evidence of Rise's site control, refer to Appendix 4-B.



Ravenswood



Staging & Deployment

Attentive Energy initiated development planning three years before attaining its Lease Area in February 2022. Through these efforts, Attentive Energy gained valuable New York experience and connections as it advanced concepts for installation of the Project's major offshore wind farm components. These experiences, coupled with TotalEnergies' wide range of offshore expertise in large scale marine construction and logistics and Rise's local experience owning and operating the Ravenswood Generating Station and working along the waterfront of New York City, position Attentive Energy well to achieve its installation schedule and COD. Attentive Energy's approach to Project staging and deployment is detailed in the following subsections. As additional information is collected through offshore survey work, detailed engineering, and engagement with transportation and installation suppliers, Attentive Energy will refine and finalize staging, deployment, and installation plans.

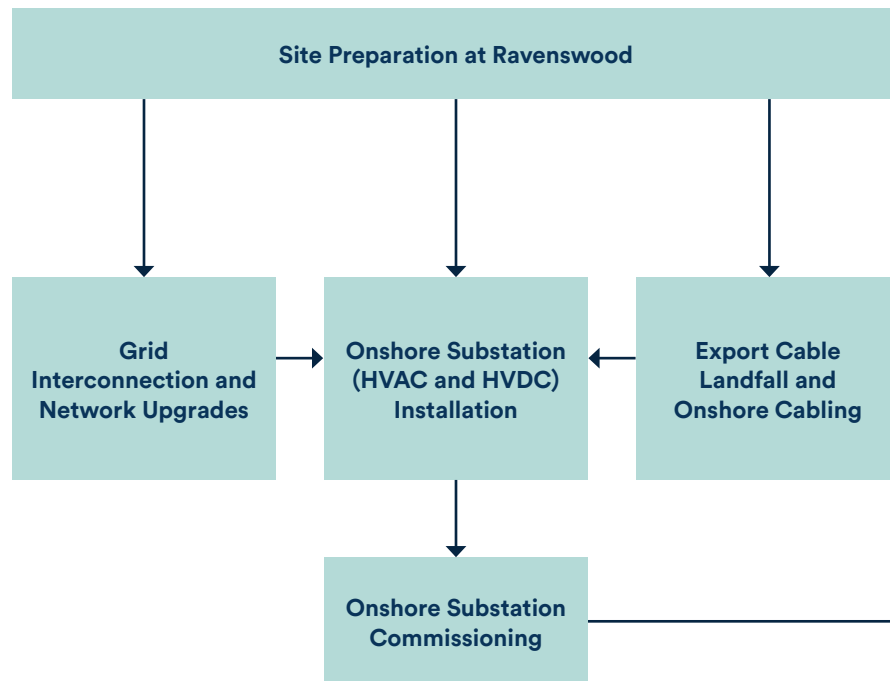
While all activities associated with construction and deployment of the Project are interrelated, Figure 13-5 illustrates the overall sequence of the work for each major construction activity.

Onshore Substation & Electrical Equipment Logistics

Site Preparation



Onshore Work



Offshore Work

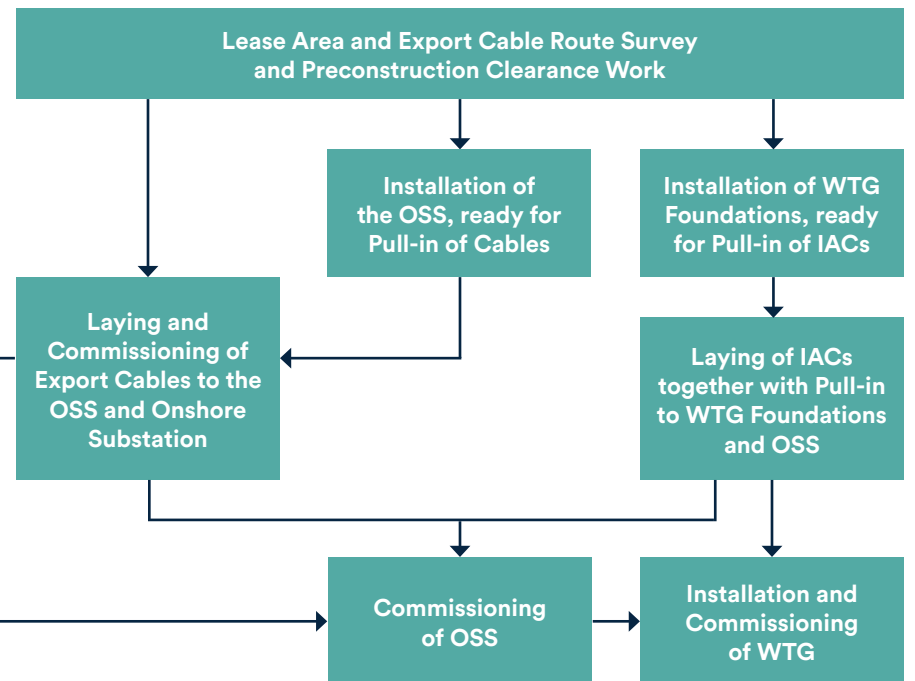


Figure 13-5 High-level Project construction & deployment sequence

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Grid Interconnection & Network Upgrades

The Project is interconnecting into a new Ravenswood AC Substation, which in turn connects to the Con Edison-owned Rainey and Vernon Substations. Modifications required at each of the substations to support the interconnection may be completed by the substation owner, Con Edison, and/or as defined in the Interconnection Agreement.

Cable Landing & Onshore Cable Installation

[Redacted]

[Redacted]

[Redacted]

[REDACTED]

Startup and commissioning will be an integrated activity as power will be needed to commission each project element, beginning with the onshore substation connection. [REDACTED]

[REDACTED]

Transport of the Onshore Substation from Manufacturer’s Site to Onshore Construction Site

The transportation of various converter and building components will be performed either by land or sea to Ravenswood, based on logistics analysis, and will employ onsite SPMTs and cranes to transport and lift equipment in place or to a laydown/ staging area as appropriate.

Ravenswood AC Substation Construction

[REDACTED]

All onshore substation equipment will be installed and tested by the OEM. The GIS OEM will leverage local installation resources and sources of construction material to the greatest extend possible. Site, building, substation and converter construction will be controlled under a master schedule that is integrated with the overall Project schedule.

[REDACTED]

HVDC Converter Equipment Installation

All onshore HVDC Converter equipment will be installed and tested by the OEM. The HVDC Converter Equipment OEM will leverage local installation resources and sources of construction material to the greatest extend possible. Site, building, substation and converter construction will be controlled under a master schedule that is integrated with the overall Project schedule.

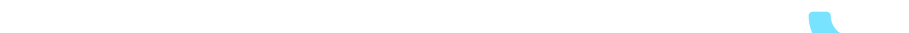
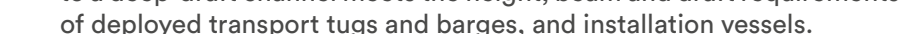
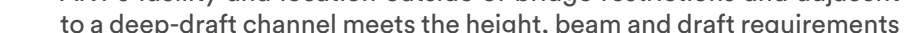
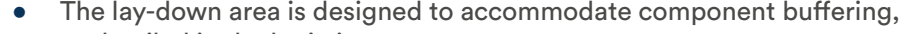
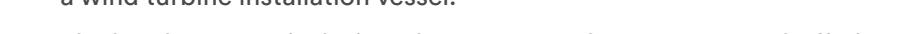
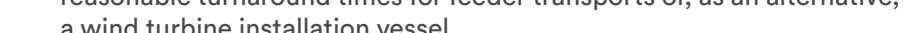
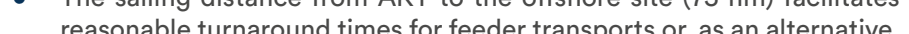
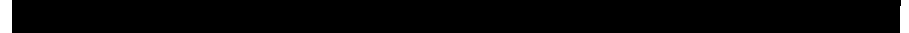
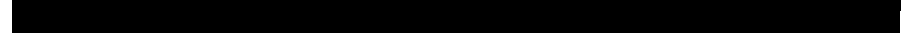
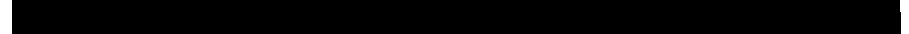
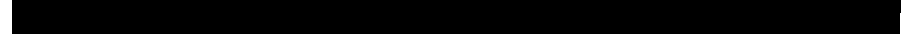
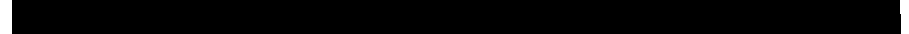
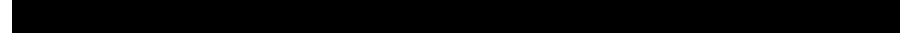
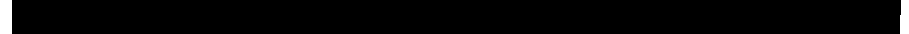
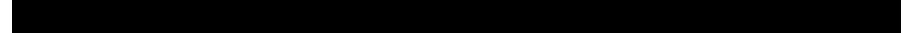
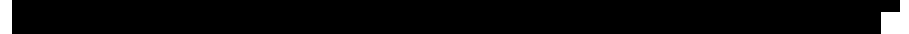
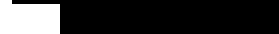
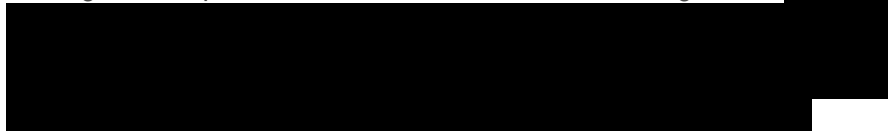
[REDACTED]

WTGs

Attentive Energy is closely coordinating with all WTG OEMs on WTG models, supply chain development, and installation methods. Attentive Energy will continue to integrate U.S. supply chain progress and contracting decisions into its WTG transport and staging concept. Certain WTG components, depending upon which OEM is selected, will be supplied from component factories outside of the U.S., and Attentive Energy has analyzed the logistics of supplying WTG components both domestically and internationally. To cover all scenarios, Attentive Energy has performed extensive logistical analyses to optimize WTG pre-transport, marshalling and installation logistics.



Attentive Energy's design basis centers around AKT as the marshalling port for WTG staging, assembly, and deployment. As described in more detail earlier in this section, AKT, situated in Staten Island and outside of any bridge restrictions, is planned to be the primary staging site for WTG components. AKT provides sufficient storage space to buffer components during the offshore WTG installation campaign with regular feeding of components from the WTG manufacturing sites.



Attentive Energy's Project will use AKT as the primary WTG marshalling port, which is located and being designed to conform to the following essential criteria:

- The sailing distance from AKT to the offshore site (75 nm) facilitates reasonable turnaround times for feeder transports or, as an alternative, a wind turbine installation vessel.
- The lay-down area is designed to accommodate component buffering, as detailed in the logistics concept.
- AKT's facility and location outside of bridge restrictions and adjacent to a deep-draft channel meets the height, beam and draft requirements of deployed transport tugs and barges, and installation vessels.

AKT is designed to be a heavy-duty facility, with sufficient load bearing capacity in the lay-down area, tower assembly and load-out area, and the

quayside. The site will be equipped with suitable office, warehouse, and shop facilities and fulfill the requirements for port operations as required by the ISPS code. For the conditioning of the nacelle-hub-assemblies and electric components in the tower section, a temporary or fixed power supply will be installed.

SPMTs and heavy load mobile cranes will be deployed for loading WTG components from and onto transport vessels and to/from the storage area.

Pre-assembly

[REDACTED]

Transport from Marshalling Port to Offshore Site

In sequence with the progress of installation of WTGs at the offshore site, the WTG components will be loaded and shipped from the marshalling port to the offshore site for immediate installation. Nacelles, blades, and tower sections will be positioned at special transport frames and handled by special lifting beams and rigging. This specialized equipment will be provided by the WTG OEM and applied during the complete transport chain from manufacturing to offshore installation.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

WTG Installation

Attentive is working with OEMs to best optimize the delivery and installation of WTGs for the Project. Attentive Energy's offshore installation procedure will prioritize safety and efficiency, and where practicable, incorporate state-of-the-art vessel capabilities as outlined below.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

WTG Foundations

[REDACTED]

WTG Foundation Logistics

Considerations for the Project's foundation construction and logistics plan include:

[REDACTED]

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Vessels

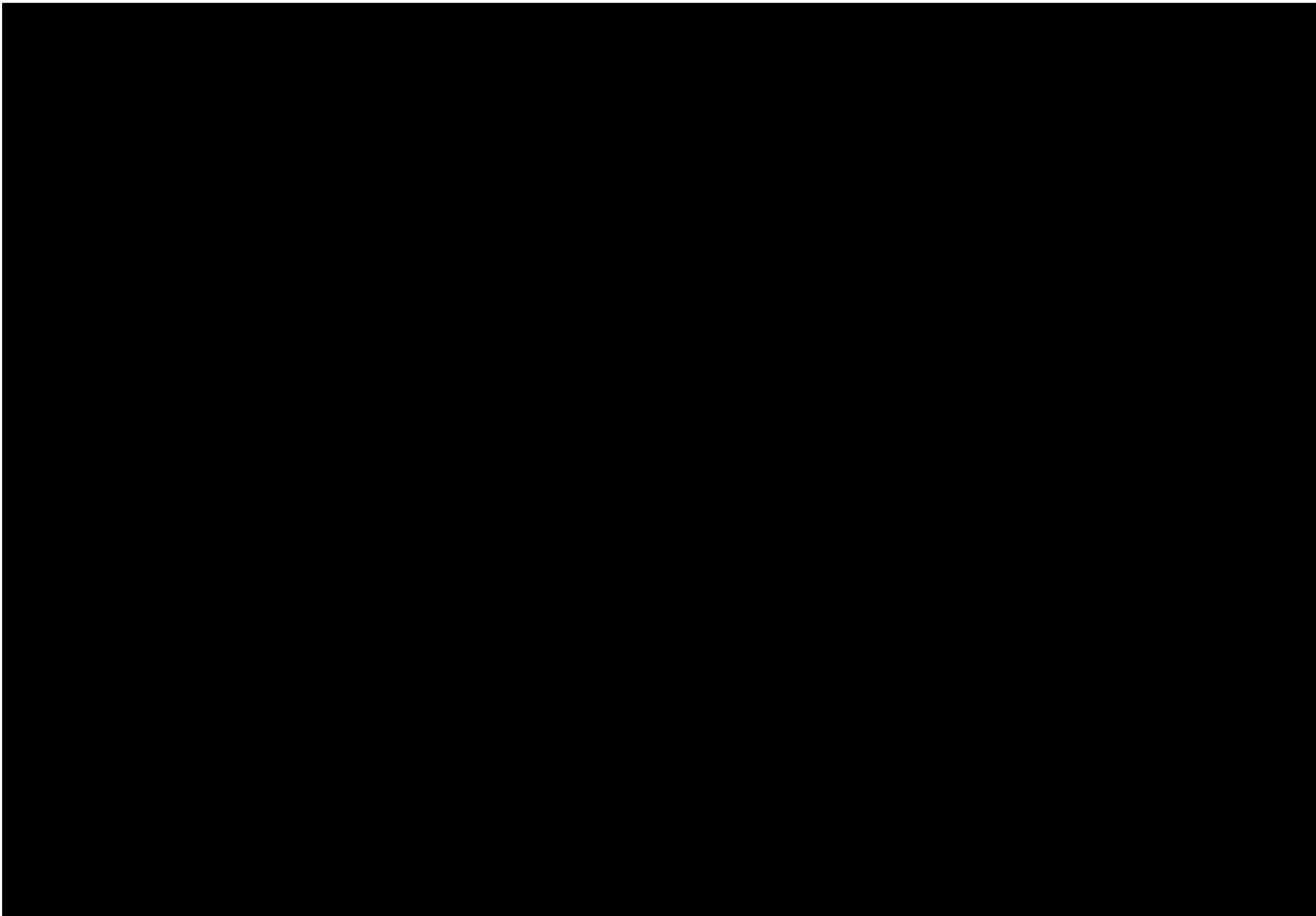
Arranging shipping from around the world under optimal safety conditions and in a timely, cost-effective way is common practice for TotalEnergies.

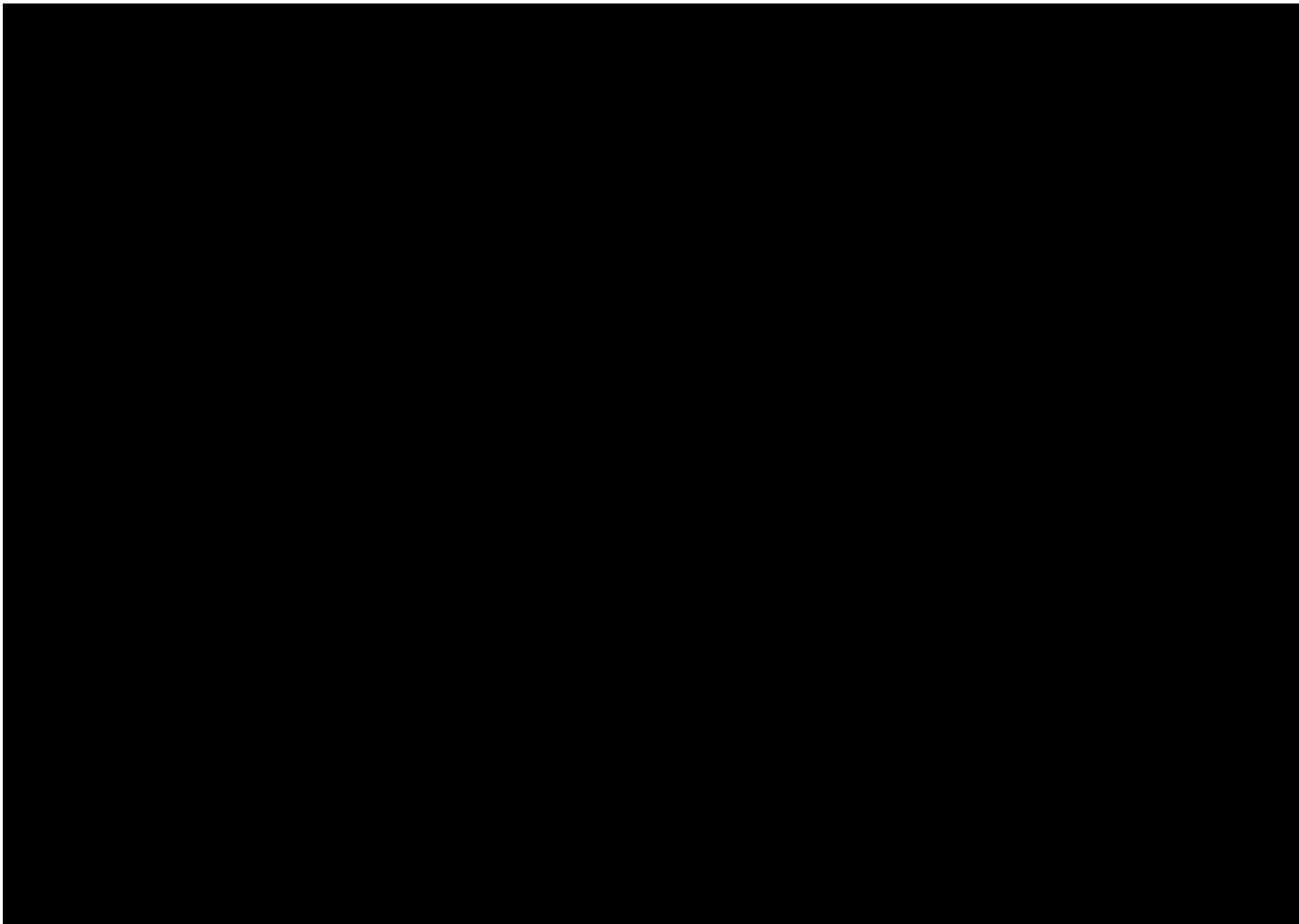
In a typical year, TotalEnergies conducts over 3,000 sea voyages on nearly 60 time-chartered vessels. This depth of expertise, drawing on industry standards like the Offshore Vessel Inspection Database to ensure conformance to international shipping regulations, positions Attentive Energy to minimize risks and identify the best opportunities to ensure safe and cost-effective vessel operations.

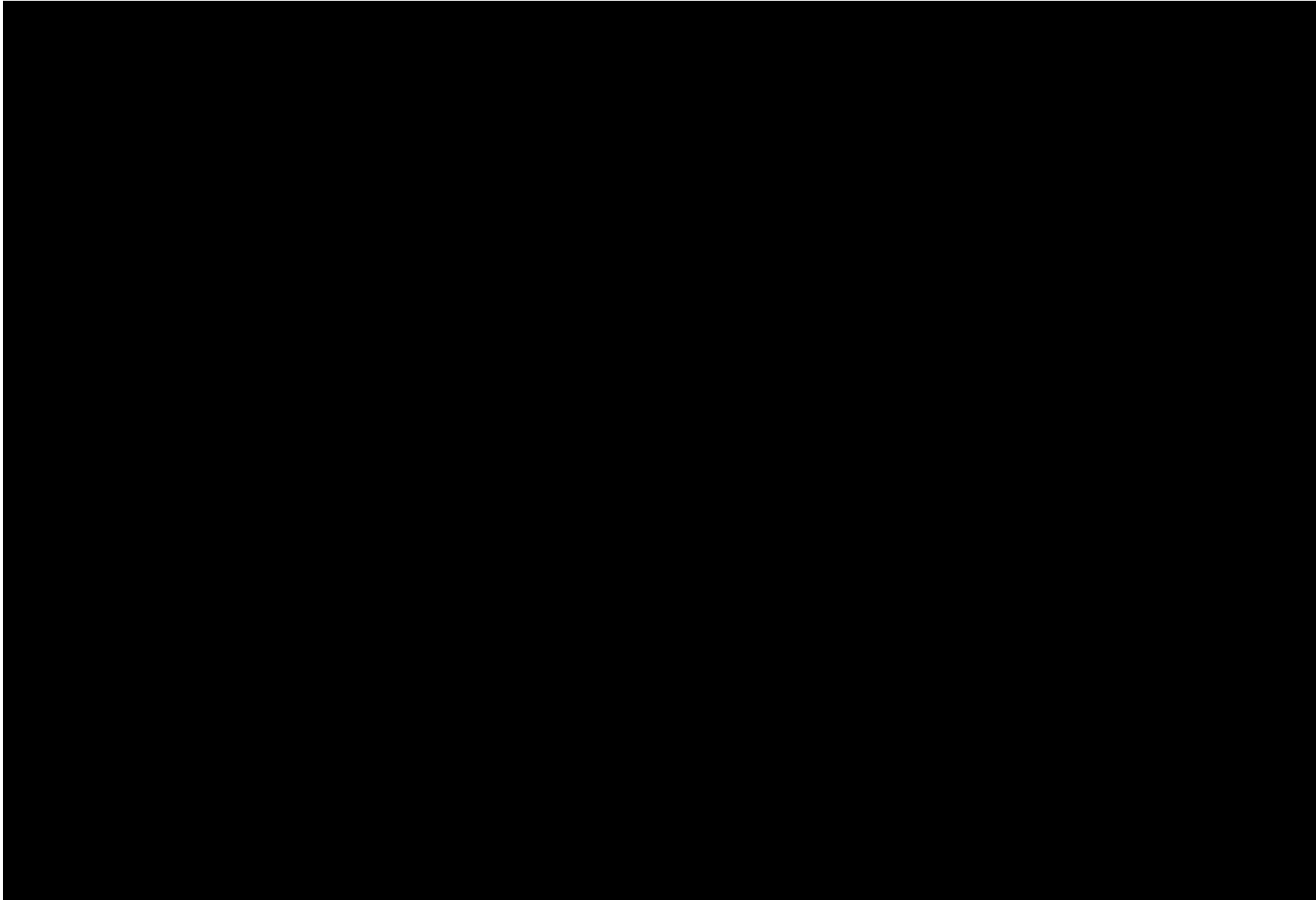
Prior to any vessel deployments, a full risk assessment of each activity will occur. This will include identification of risk mitigation controls and, where practicable, pre-sail safety checks. For example, during construction activities guard or scout vessels may be employed to monitor traffic and recovery vessels will be deployed when technicians are working over water.

[Redacted]

[Redacted]









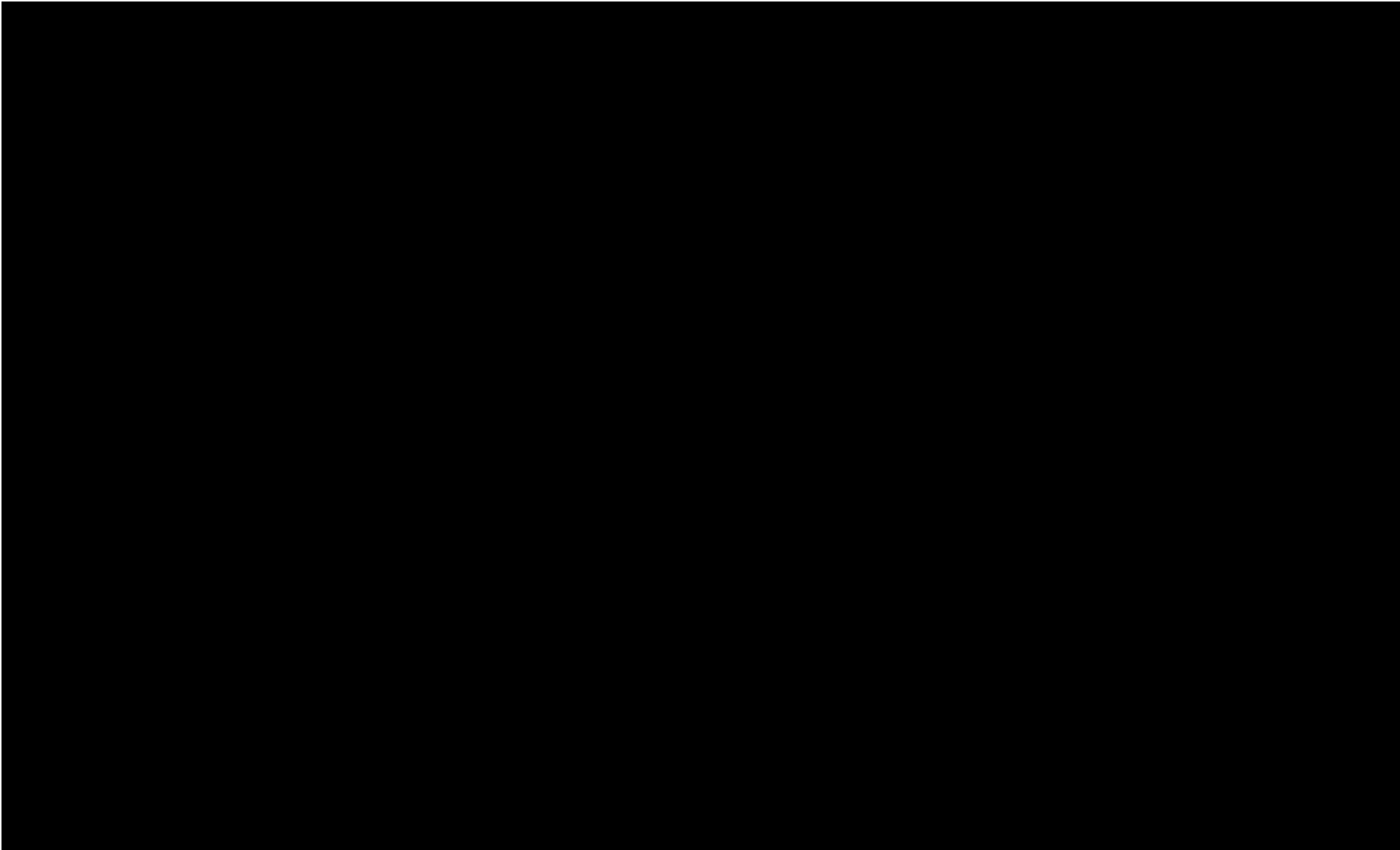
Vessel Supply Chain Engagement and Vessel Approach

Attentive Energy benefits from TotalEnergies' global procurement organization, which has long-standing and strong relations with the world's leading maritime offshore wind suppliers and operators. TotalEnergies' extensive network and global buying power is being leveraged to control project costs and minimize vessel procurement risks. Attentive Energy will continue to draw on TotalEnergies existing pipeline of offshore construction projects to capitalize on market advantages and inform vessel employment decisions. This includes using TotalEnergies' longstanding business relationships to secure the most critical vessels, e.g., newly conceived and constructed WTIVs with barge-docking or lifting capabilities and large crane ships.

All of Attentive Energy's operations will comply with the Jones Act. 



Attentive Energy performed an analysis of the vessel supply chain, focused on global and U.S. availability, Jones Act compliance, and the Project schedule, to ensure Attentive Energy achieves a cost-effective, reliable, and efficient vessel procurement process. Attentive Energy continues to refine that analysis by engaging installation vessel operators, including those offering innovative solutions and seeking opportunities in the U.S. offshore wind market, to assess vessel availability, suitability, and cost.





SECTION 14

FISHERIES MITIGATION PLAN



Section 14 Table of Acronyms

AC	Alternating Current
ACT_MATOS	Atlantic Cooperative Telemetry Mid-Atlantic Acoustic Telemetry Observation
AIS	Automatic Identification System
BACI	Before-After-Control-Impact
BMP	Best Management Practice
BOEM	Bureau of Ocean Energy Management
CBRA	Cable Burial Risk Assessment
CFR	Code of Federal Regulations
COP	Construction and Operations Plan
CTD	Conductivity-Temperature-Depth
DC	Direct Current
E-TWG	New York State Environmental Technical Working Group
eDNA	Environmental DNA
EFH	Essential Fish Habitat
EMF	Electromagnetic Fields
EMP	Environmental Mitigation Plan
EPRI	Electric Power Research Institute
F-TWG	NYSERDA's Fisheries Technical Working Group
FCP	Fisheries Communication Plan
Fish and Fisheries Study	New York State Offshore Wind Master Plan - Fish and Fisheries Study
FLO	Fisheries Liaison Officer
FMP	Fisheries Mitigation Plan
FR	Fishing Representative
IAC	Inter-Array Cable
ICES	International Council for the Exploration of the Sea
MW	Megawatt

NEFSC	Northeast Fisheries Science Center
NGO	Non-Government Organizations
NJDEP	New Jersey Department of Environmental Protection
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NOWRDC	National Offshore Wind Research & Development Consortium
NYSDEC	New York State Department of Environmental Conservation
OCS	Outer Continental Shelf
OFLO	Offshore Fisheries Liaison Officer
OREC	Offshore Wind Renewable Energy Certificate
OSS	Offshore Substation
PV	Plan View
RMI	Resource Monitoring Initiative
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
RWSC	Regional Wildlife Science Collaborative
SPI	Sediment Profile Imagery
USCG	U.S. Coast Guard
USDOE	U.S. Department of Energy
VMS	Vessel Monitoring Systems
WTG	Wind Turbine Generator

14. FISHERIES MITIGATION PLAN

D.1 Fisheries Mitigation Plan Summary

Attentive Energy’s FMP aims to balance the interests of responsible offshore wind energy development with those of commercial and recreational fishermen who rely on marine resources in the Project Area. Mitigation approaches developed for the Project will be directly related to resource impacts. Attentive Energy will strive to avoid and minimize impacts to fisheries resources. Where impacts cannot be avoided or minimized, Attentive Energy will implement mitigation practices using this FMP as a guide. The goal of the FMP is to achieve a no net loss of revenue to commercial fishermen (OREC FMP, 2022). The practices outlined in this FMP will be employed in parallel with those described in the EMP, to achieve an overall Project goal of no net loss of biodiversity.

The FMP outlines the steps Attentive Energy has taken, and will take, to work collaboratively with the State, Federal agencies, and other stakeholders to define avoidance, minimization, and mitigation measures for the Project. This FMP also details how Attentive Energy will account for the potential adverse impacts to fisheries resources throughout the Project lifecycle.

[REDACTED]

[REDACTED]

As outlined in this FMP, Attentive Energy is proactively incorporated impact avoidance and minimization measures into Project design and planning through establishing early and open engagement with the fishing community. The FMP also describes Attentive Energy’s two-pronged research program aims at ecosystem-level research and fisheries-specific monitoring. Attentive Energy strives to evaluate potential Project impacts and base decisions on an objective, science-based analysis of the various Project phases.

Attentive Energy will use existing data and site-specific monitoring surveys to characterize the fisheries within the Lease Area and the broader Project Area. In the following Sections (Sections D.3 and D.4), Attentive Energy’s research framework, including research initiatives, strategy, collaborators, and data collection processes, is described in more detail.

Attentive Energy notes there have been significant efforts in the New York Bight to collect relevant information, and, this data will inform the design of future research and monitoring. A proposed survey scopes will be reviewed with relevant State and Federal agencies prior to mobilization.

Attentive Energy began working collaboratively with the fishing community and marine stakeholders in 2018 with the goal of prioritizing safety, optimizing on-water activities, and considering fisheries resources and activities throughout all phases of the Project. This approach has allowed Attentive Energy to communicate with the fishing community, collect important information, and incorporate fisheries concerns into the Project design from its onset. Attentive Energy has also been establishing relationships with research partners, Federal and State agencies, and other stakeholders to identify key research topics of interest. Based on the feedback received, Attentive Energy has developed a Fisheries Monitoring and Ecosystem Research Program that facilitates establishing environmental and economic priorities, evaluating impacts, and gaining a better understanding of the potential effects of offshore wind development on fisheries and marine resources.

Attentive Energy will implement BMPs recommended by NYSERDA, NMFS, and BOEM. Specifically, NYSERDA, through its Offshore Wind Master Plan, has provided BMPs to guide environmentally responsible offshore wind development. Further recommendations are being developed by a subgroup of the NYSERDA F-TWG. Additionally, as per the lease stipulations, Attentive Energy will comply with the standards specified in the draft *Guidelines for Mitigating Impacts to Commercial and Recreational Fisheries on the Outer Continental Shelf Pursuant to 30 CFR Part 585*, once finalized.

Adaptively Updating the FMP Document

Attentive Energy expects feedback from the fishing and research communities, and that other stakeholders will continue to inform Project design, planning, and operations in a manner beneficial to all parties. As such, Attentive Energy intends for this FMP to be refined over time to reflect this ongoing dialogue and the growing understanding of offshore wind development in the New York Bight.

D.2 Communications and Collaboration

Engagement Commitments

As outlined in detail within the Stakeholder Engagement Plan, Attentive Energy’s communications and engagement philosophy is rooted in three commitments:

- Communicating frequently and proactively throughout the Project lifecycle (i.e., from pre-construction to decommissioning).
- Understanding stakeholder concerns and interests.
- Developing actionable objectives where practical to address stakeholder concerns and interests.

Each commitment is rooted in understanding the communities’ needs and diverse perspectives as well as maintaining a responsive dialogue with all stakeholder groups.

Fisheries Engagement

Attentive Energy began engaging with the fishing communities associated with the Project Area in 2018, four years prior to securing the Lease Area. This engagement included the use of a variety of methods including regular

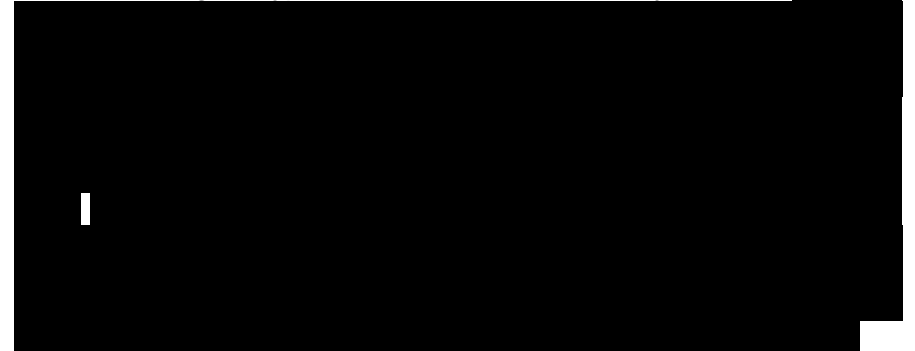
port visits, direct mail and online surveys, and multiple communication platforms. In 2019, Attentive Energy hired its first FLO to establish relationships with fishing communities that could be impacted by the Project. In January 2020, Attentive Energy published the first version of its FCP. The FCP guides the Project’s outreach and communication with the goal of developing a collaborative relationship with the fishing community. The FCP was provided to BOEM and published to the Attentive Energy website on August 23, 2022. A copy of the FCP is included as Attachment 14-A.

In October 2021, Attentive Energy initiated a direct mail and online Fishing Community Survey to over 3,000 fishermen and mariners in the New York Bight and surrounding region. The goals of this survey were to:

- Identify and initiate contact with stakeholders potentially impacted by offshore wind development within the New York Bight;
- identify concerns regarding these activities;
- identify those fisheries most likely to be impacted by offshore wind development in the New York Bight;
- and expand Attentive Energy’s stakeholder network.

Attentive Energy’s FLO has also been attending public forums such as the Mid-Atlantic and New England Fisheries Management Council Meetings and visiting ports to meet with individual fishermen.

Attentive Energy is actively building a network of FRs. The FR network will maximize coverage of fishing community geography (hailing ports), fisheries, and gear types most relevant to the Project Area.



In addition to communicating through the FLO and FRs, Attentive Energy will provide updates and outreach regarding the status of the Project via its website, notices to mariners, and other platforms including email, social media, and potentially the [REDACTED]. A description of Attentive Energy's FRs and their qualifications can be found in Table 14-1:

OFLOs

Attentive Energy's OFLOs will coordinate briefings with survey vessel crews and construction vessel operators. Information about on-water activities is published on the Attentive Energy website. Attentive Energy is currently and will continue to deploy OFLOs aboard survey vessels (as practicable) to work with the Project's FLO to coordinate safe operations, facilitate communications between survey vessels and active fishermen, and avoid fishing gear conflicts. [REDACTED]

State and Regional Collaboration

Attentive Energy is committed to working with the F-TWG to ensure that communication with the State and relevant stakeholders occurs throughout all phases of the Project.

Further, Attentive Energy has been and will continue collaborating with other offshore wind developers within the New York Bight, and other regions throughout the U.S., to ensure that information (including fisheries data) is publicly available to fishermen and other stakeholders, as appropriate. Attentive Energy's FLO regularly attends joint developer events in fishing ports from Long Island, New York to New Bedford, Massachusetts, has been a regular attendee of the New England and Mid-Atlantic Fisheries Management Council Meetings, participates in biweekly meetings with the ACP Fisheries Subcommittee, which includes other developers, and is a member of ACP's newly formed recreational fishing steering committee. With the number of offshore wind projects currently under development in the New York Bight, Attentive Energy recognizes the potential for stakeholder fatigue and commits to being sensitive to this when conducting outreach activities.

Local Collaboration

Attentive Energy will rely on a network of FRs and the relationships it has cultivated with recreational and commercial fishing communities, local governments, and public officials to coordinate efforts and collaborate with local stakeholders. Attentive Energy will leverage these relationships and focus on supporting local recreational and commercial fishing communities through specific outreach efforts.

[REDACTED]

Collaboration with Regional Science Entities

Attentive Energy is committed to collaborating with regional science-based organizations to support and advance the understanding of the impacts of offshore wind on fisheries and wildlife resources.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

D.3 Monitoring and Research Pre-, During- and Post-Construction

Attentive Energy has developed a Fisheries Monitoring and Ecosystem Research Program that will be applied during every phase of the Project. The development of this program was informed through engagement with the fishing community and active participation in ROSA, RWSC, and the F-TWG.

The goals of Attentive Energy's Fisheries Monitoring and Ecosystem Research Program are to:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

With this Fisheries Monitoring and Ecosystem Research Program, Attentive Energy seeks a holistic understanding of how the Project may affect existing habitats and fishery populations within the Project Area as well as potential effects to ecosystems and fisheries on a regional level.

Contingent upon winning a bid under the Request for Proposals ORECRFP22-1, Attentive Energy agrees to provide financial and technical support for "regional monitoring of wildlife and fish and invertebrates that support economically important fisheries" (NYSERDA, 2022a). [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Monitoring efforts associated with the Fisheries Monitoring and Ecosystem Research Program will be completed by a regional organization, independently by Attentive Energy, or through its research partners. Information gathered will be used to advance responsible development

of the entire offshore wind energy industry, and will not be limited to the Project. In designing the Fisheries Monitoring and Ecosystem Research Program, Attentive Energy seeks to be consistent, collaborative, and complimentary to research being conducted within the region.

As specific study plans within the Fisheries Monitoring and Ecosystem Research Program are finalized, they will become attachments to the FMP. Attentive Energy's plan for monitoring and research of species not directly harvested by the fisheries, including birds, bats, invertebrates, sea turtles, and marine mammals, is described in the EMP. Results of those studies will provide a more complete understanding of the potential effects of the Project on elements of the ecosystem that directly or indirectly affect the fisheries resources. These results will provide further context for interpreting the results of the Fisheries Monitoring and Ecosystem Research Program.

Establish Baseline Data on Fisheries Resources

To establish a scientifically sound database from which to characterize baseline conditions within the Project Area, Attentive Energy will use existing guidance to inform the design of field surveys (e.g., from BOEM, NMFS, and NYSERDA). Significant relevant data has already been collected in the New York Bight, creating a structure for how future surveys should be implemented. Final proposed survey scopes will be reviewed with stakeholders (e.g., State and Federal agencies) prior to mobilization to ensure consistency with previous survey data and adequate data coverage (e.g., see Addendum C of Attentive Energy's BOEM OCS-A 0538 Lease Agreement).

¹ Please see the EMP for a detailed description of how the environmental monitoring funds are proposed to be spent.

[REDACTED]

Attentive Energy referenced relevant guidance documents to inform the design and implementation of the Fisheries Monitoring and Ecosystem Research Program. These guidance documents include, but are not limited to:

- BOEM Guidelines for Providing Information on Fisheries for Renewable Energy Development on the Atlantic Continental Shelf Pursuant to 30 CFR 585;
- BOEM Guidelines for Providing Benthic Habitat Survey Information for Renewable Energy Development on the Atlantic OCS Pursuant to 30 CFR 585;
- NOAA Fisheries and BOEM Federal Survey Mitigation Implementation Strategy - Northeast U.S. Region;
- ROSA Offshore Wind Project Monitoring Guidance Document Research and Monitoring Recommendations;
- RWSC guidance and recommendations under preparation; and
- The New England Fisheries Management Council Scallop Survey Working Group Meeting and Research Set-Aside Recommendations.

To gather existing baseline data for the Project Area, Attentive Energy has identified and reviewed several publicly available data sources, including commercial and recreational fisheries data, studies associated with the Fish and Fisheries Study (2017), and NOAA Fisheries figures and studies. NYSERDA's Fish and Fisheries Study summarized fisheries-independent surveys that sampled juvenile and adult fish and invertebrates in the waters of the New York Bight, including the:

- NOAA NEFSC Bottom Trawl Survey;
- Sea Scallop Dredge Survey, and Clam Survey;
- NJDEP Ocean Trawl Survey; and
- Northeast Area Monitoring and Assessment Program's Nearshore Trawl Survey, jointly operated by the Atlantic States Marine Fisheries Commission and the Virginia Institute of Marine Science.

NYSERDA's Fish and Fisheries Study also summarized data collected from NEFSC's Ecosystem Monitoring Cruises, which sample planktonic organisms, including fish larvae and eggs. These sources provide an excellent starting point to develop insight into the fish and invertebrates within the New York Bight and the Lease Area at multiple life history stages, as well as associated habitats.

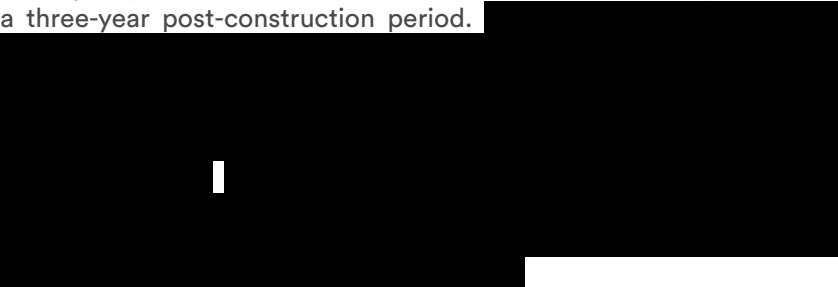
Monitor Fisheries for Impacts

Building from the information provided by publicly available baseline studies and data sets, Attentive Energy plans to conduct biological monitoring surveys prior to, during, and after construction. The purpose of pre-construction surveys is to establish a more refined baseline of economically important species through multiple life history stages in the Project Area. Surveys conducted during the construction phase of the Project will allow for analyses focused on short-term impacts to economically important species associated with construction activities. The post-construction surveys then monitor for changes in the abundance and distribution of these species in the Project Area to assess and quantify (to the extent practical) changes attributable to the Project construction activities. While Attentive Energy provides its provisional approach to pre- and post-construction biological monitoring surveys in this FMP, the final design will be developed further through consultation with relevant State and Federal stakeholders.

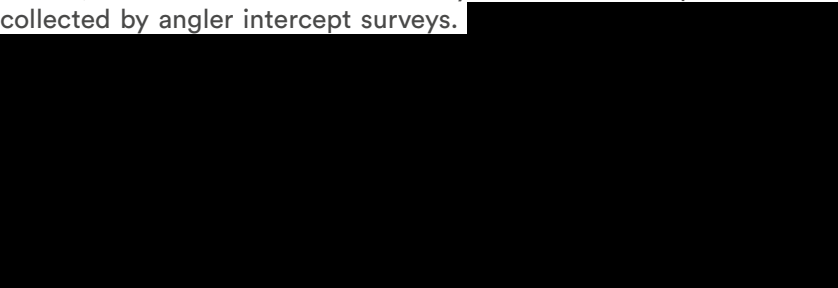
- **Baseline Data:** Pre-construction fisheries surveys will be conducted to establish a baseline assessment of the seasonal abundance and distribution of economically important species. Attentive Energy is considering surveying within the Project Area using gill or trammel nets, ventless traps, otter trawls (depending on regulatory approval), and plankton tows. Using these proposed sampling gear is based on current fishing practices and gear in the New York Bight. [REDACTED]

- **Benthic:** Attentive Energy is currently conducting benthic surveys to delineate and characterize benthic habitats and establish a pre-construction baseline. A "Forward Scouting" approach is being implemented for benthic surveys to fill existing data gaps, ground-truth potential WTG locations and export cable routes, and identify siting constraints and opportunities. [REDACTED]

- **Vessel Monitoring Systems:** Fisheries-dependent data collected by NOAA as part of its VMS program will help characterize how the proposed Project Area is used by commercial fisheries and to evaluate whether commercial fishing activities have changed in the vicinity of the proposed Project following construction. VMS is a satellite surveillance system that monitors the location and movement of commercial fishing vessels. Attentive Energy will compile and analyze VMS data over a three-year pre-construction period, the entire construction period, and a three-year post-construction period.



- **Angler Surveys:** Attentive Energy will also coordinate with ongoing State and Federal fisheries monitoring programs run by NYSDEC, NJDEP, and NMFS to conduct an analysis of fisheries-dependent data collected by angler intercept surveys.



This analysis will evaluate whether the new in-water structures and hard-bottom habitat provided by the WTG and OSS foundations and scour protection produce enhanced recreational fishing opportunities.

Data Availability


Attentive Energy will make the non-proprietary data collected during these survey campaigns (including the data associated with cable corridors) publicly available as outlined in the NYSERDA report, *Wildlife Data Standardization and Sharing: Environmental Data Transparency for New York State Offshore Wind Energy* (2021) and/or other appropriate standardized initiatives that may mature in the industry (e.g., RWSC). The accessibility and sharing of these data are vital to inform the thoughtful development of future offshore wind projects in the Northeast and Mid-Atlantic Ocean. Leveraging years of engagement with fisheries stakeholders and research institutions, Attentive Energy plans to enter collaborative research agreements that include fisheries stakeholders and research institutions to collect data in a manner that promotes standardization of methods, surveys, and monitoring plans across the region. Attentive Energy is committed to the goals of NYSERDA and ROSA to enhance data compatibility, utility, and survey standardization. This commitment is demonstrated by Attentive Energy’s previously mentioned recent financial contribution to ROSA to facilitate data management.



Attentive Energy attending the NYSERDA State of the Science 2022 Workshop

Determine Usage of Project Area


Attentive Energy will rely on the expertise of its FRs, Angler Surveys, and NOAA's VMS program to assess use of the Project Area by the recreational and commercial fishing communities before, during, and after construction. Attentive Energy will also focus heavily on its fisheries engagement strategy in order to gauge how the Project Area is used for fishing and navigational purposes by recreational and commercial fishermen.



Ecosystem Research

In order to advance the ecosystem research component of the Fisheries Monitoring and Ecosystem Research Program, Attentive Energy is collaborating with the scientific community through the F-TWG, E-TWG, ROSA, RWSC, and NOWRDC. Additionally, Attentive Energy is exploring collaborative opportunities with third-party researchers, regional science organizations, and universities to support the ecosystem research component of the Fisheries Monitoring and Ecosystem Research Program.

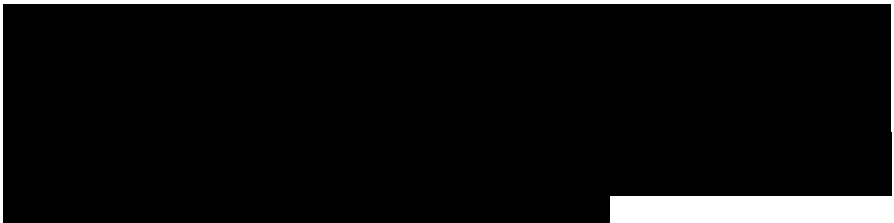
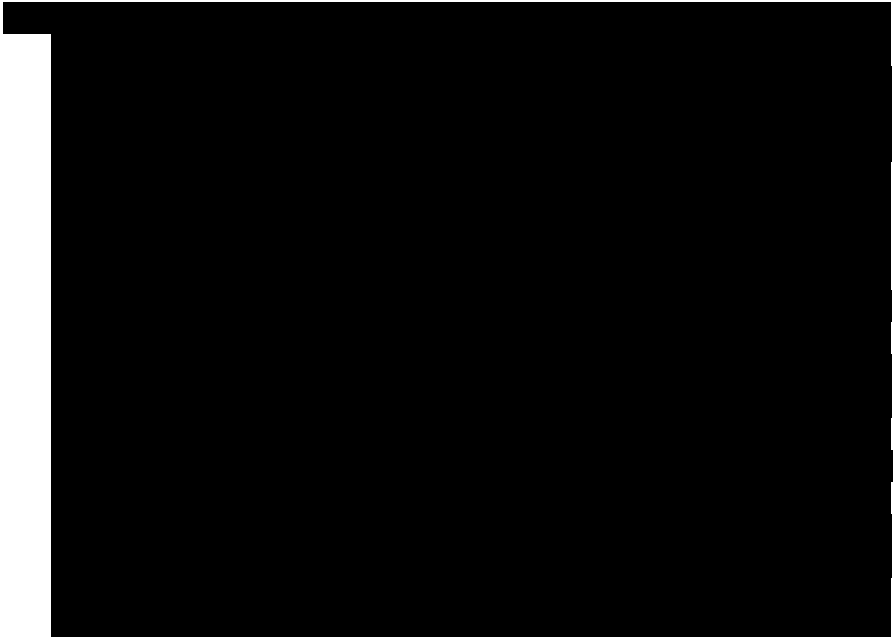
To date, Attentive Energy has engaged with researchers from several universities to discuss areas of expertise and interests related to the Fisheries Monitoring and Ecosystem Research Program's goals. Conversations are ongoing and the list of institutions will likely be expanded to other entities as concepts and discussions mature.



Attentive Energy is developing a research framework to guide its ecosystem research. This framework outlines the research topics that will be addressed through a series of study plans to be developed by

Attentive Energy and its research collaborators, expanding upon already-existing projects where possible. The intent of the Fisheries Monitoring and Ecosystem Research Program is to provide further insight into potential ecological and socioeconomic effects of offshore wind development on the existing marine resources and human uses of the OCS. The research will focus on Project effects on habitat from the introduction of new, complex structures (e.g., foundations and scour protection/cable protection), how these interactions affect the species composition and habitat use by fish and benthic invertebrates, and how changes to the habitat ultimately affect the use of the Project Area by commercial and recreational fisheries.

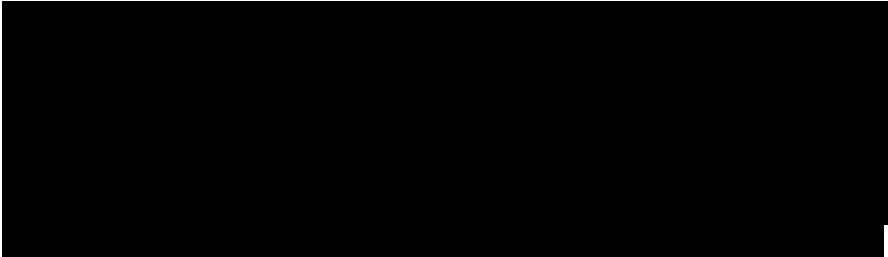
Attentive Energy is developing several interrelated research streams in this framework:





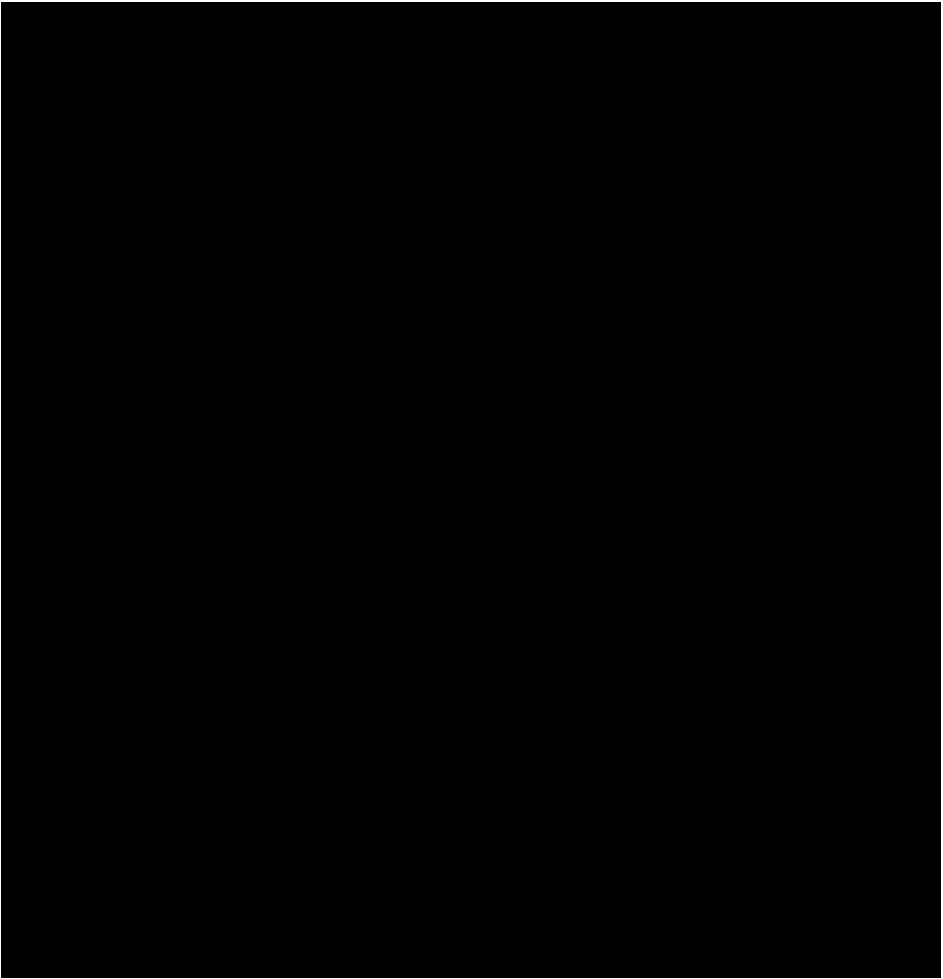
Attentive Energy is committed to achieving NYSERDA's goal of "no net loss of revenue to commercial fishermen" as is demonstrated by its commitment to fund over half a dozen research and monitoring initiatives with ten different research groups.





access to non-proprietary monitoring data collected by Attentive Energy as part of the fisheries monitoring component of the Fisheries Monitoring and Ecosystem Research Program, and 4) Providing financial support for regional monitoring of key commercial fish stocks.

A summary of Attentive Energy’s proposed fisheries initiatives, including partner organizations and research topics, is provided in Table 14-2. Letters of intent and letters of support from various partner organizations for proposed environmental and fisheries investments are provided as an attachment to Sections 16 and 19.



D.4 Supporting Other Research

Attentive Energy is committing to support other research through a number of means, including by: 1) Providing access to the Project Area for third- party supported scientists conducting studies on the effects of offshore wind development, 2) Participating in collaborative monitoring networks to expand the geographic scope of those networks, 3) Providing

Attentive Energy does not intend to restrict access to the Project Area for commercial or recreational fisheries. Access for research studies would be similarly non-restrictive, so long as certain avoidance zones are followed during construction and maintenance activities.

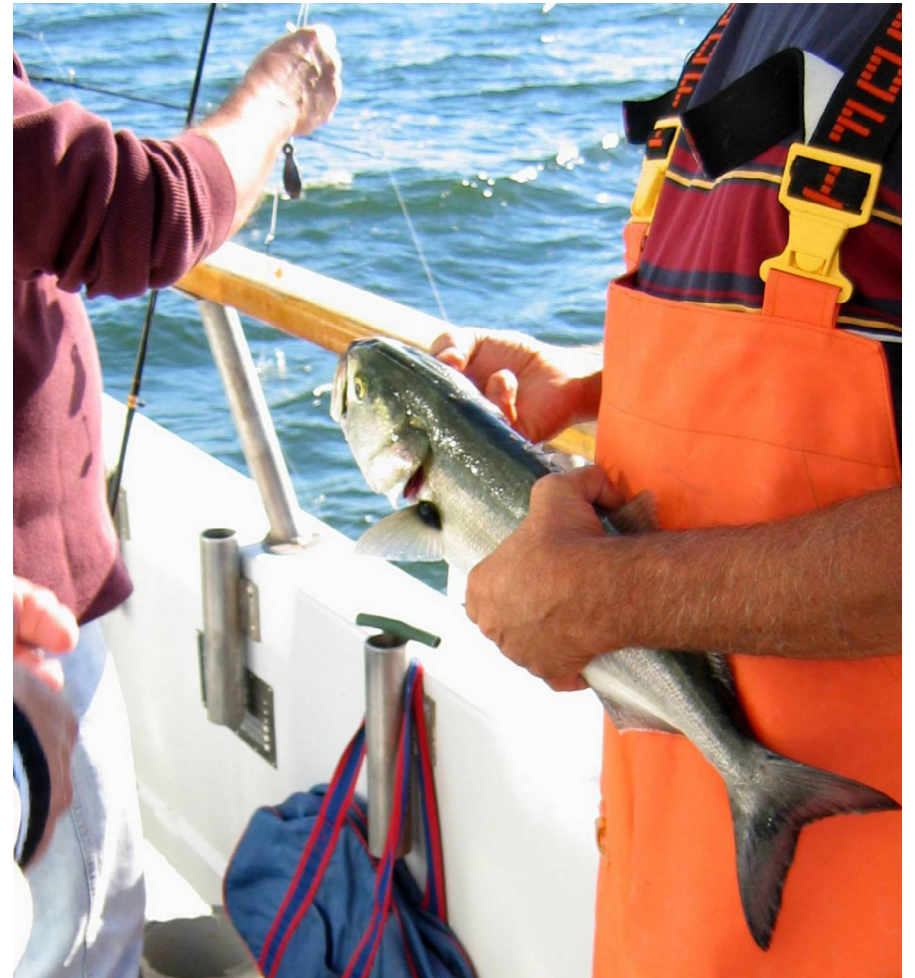
Attentive Energy is engaging collaborative research consortiums to identify research opportunities and to expand those consortiums' established networks.

Attentive Energy recognizes data collected to support the Project can be of value for another ongoing environmental research, and will aim to provide open-access availability for all non-proprietary data collected during the Project life cycle. Attentive Energy will manage data requests on a case-by-case basis, where certain data may be shared under the appropriate non-disclosure agreement. Attentive Energy has learned from multiple organizations and researchers that data standardization, storage, and management are top concerns amongst the scientific community. Attentive Energy acknowledges these concerns and will actively endeavor to support efforts addressing them as the Project develops.

D.5 Site Design Considerations

Throughout the site design process, Attentive Energy will be guided by the objective to ensure safety for commercial and recreational fishermen, and other mariners, who use and transit through the Project Area. Attentive Energy's goal is to ensure that WTG siting, layout, cable routing, burial depth, and other design elements are designed and implemented to be conducive to existing fishing practices and other marine uses, i.e., to preserve access to fishing grounds to the extent practicable, to accommodate current and planned maritime navigation standards, and to facilitate search and rescue performance. Siting of facilities will also apply the mitigation hierarchy related to potential effects. For additional information on subsea cable considerations, see Section D.7.

Attentive Energy is encouraged by ICES recent findings (March 2022) following a seven-year study of the Deepwater Block Island Wind Farm that demonstrated commercial fishing activities (dredging and trawling) between WTGs is feasible.



Charter fisherman removing the hook from a bluefish

Hudson Canyon is located northeast of the Lease Area. This bathymetric feature has been identified as the largest shelf-sourced canyon off the east coast and hosts a diverse ecosystem which supports key fisheries (Rona et al., 2015⁵). This feature, recently proposed as a National Marine Sanctuary, is a key research priority in understanding species distribution, especially considering climate change's potential effects. Research and monitoring that Attentive Energy supports will consider this dynamic feature and its influence on fisheries associated with the Project Area. Attentive Energy has also identified the use of static fishing gear along the Hudson Canyon targeting monkfish and American lobsters using gill nets and pots, respectively. These fisheries will be considered for survey efforts that Attentive Energy supports, as well as siting of Project cables to avoid interactions with these gear types, as practicable.

Attentive Energy will follow the USCG Navigation and Vessel Inspection Curricular (NVIC 19) guidelines for lines of orientation and will engage with the F-TWG, regional fishermen, and other maritime stakeholders, such as maritime experts, consultants, and marine safety committees, to refine a Project layout that minimizes impacts on existing fishing practices and facilitate ongoing, safe access to historic fishing grounds. Attentive Energy commits to developing a Project layout, construction, and operations scheme that reduces impacts to these industries within the Project Area.

Attentive Energy is following the USCG New Jersey-Delaware Port Access Route Study and Consolidated Port Access Route Study closely to ensure alignment with the U.S. Coast Guard's marine spatial planning guidelines governing WTG spacing and orientations. Furthermore, BOEM's Final Sale Notice and lease terms retained a 2.44 nautical mile-wide (4,894 ac) "No Surface Occupancy" area between Lease Area OCS-A 0538 and Lease Area OCS-A 0539, supported by comments received from BOEM's Proposed Sale Notice and meetings with the fishing community in advance of the Final Sale Notice. Site design will also be informed by the NSRA to be developed in support of the COP.

Attentive Energy will follow existing cable burial and routing standards. Target burial depth will be informed by engineering BMPs considering the evaluation of marine activities including, but not limited to, fishing activities and equipment types, as well as feedback from regulatory and stakeholder

communities. A Cable Burial Risk Assessment will be completed to inform cable siting and cable burial in support of the COP. Attentive Energy is exploring new concepts that implement secondary protection while promoting habitat enrichment. [REDACTED]

D.6 Construction and Operation

To avoid, minimize, and mitigate the potential impacts of Project construction and operations on the fishing community, Attentive Energy will:

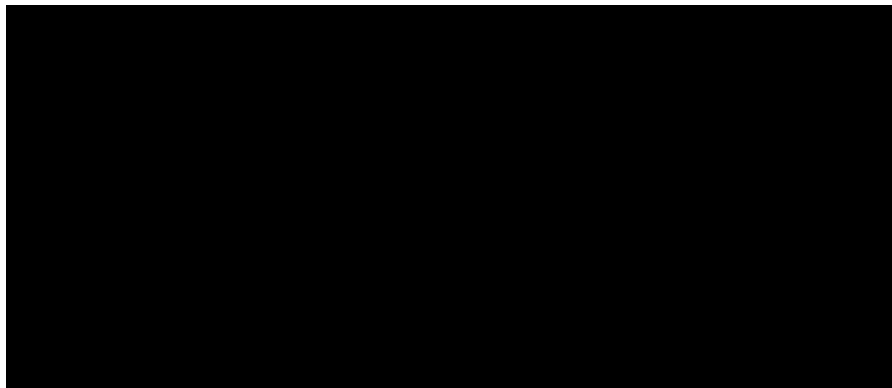
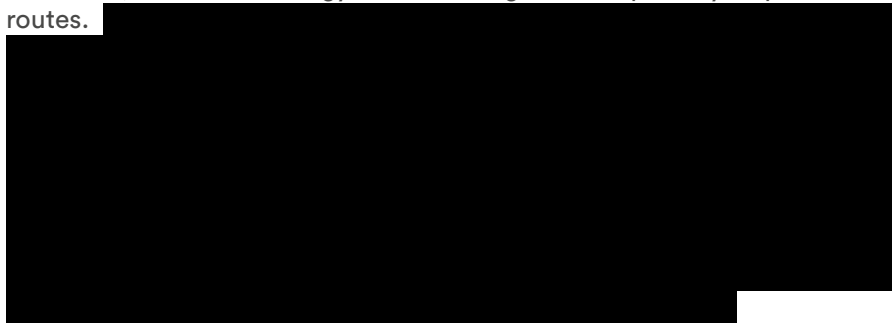
- [REDACTED]

5 Rona, P., V. Guida, M. Scranton, D. Gong, L. Macelloni, M. Pierdomenico, A-R. Diercks, V. Asper, and S. Haag. 2015. Hudson submarine canyon head offshore New York and New Jersey: A physical and geochemical investigation. *Deep-Sea Research II* 121:213-232.

Attentive Energy acknowledges that, despite these mitigation efforts, the development of offshore wind poses the possibility of negative interactions between fishing gear, survey gear, and offshore wind structures. As such, Attentive Energy has established procedures to address gear loss claims to compensate fishermen who may lose gear associated with project activities. The gear claim application is available on Attentive Energy's website. As developments progress in New York Bight, Attentive Energy is open to collaborating with other New York Bight offshore wind leaseholders to standardize gear claims across the region.

D.7 Considerations for Subsea Cables

To avoid and minimize potential impacts to sensitive habitats and fisheries resources, Attentive Energy is evaluating several primary export cable routes.



Attentive Energy at the 152nd American Fisheries Society Annual Meeting





To further avoid impacts to fisheries, consideration will also be given to the changes in fisheries practices resulting from adaptation by commercial fishermen to the presence of the Project and the use of structures by recreational anglers over the decades of wind farm operations. Attentive Energy will remain engaged with the research community and will stay current with research and monitoring efforts, as well as regulatory changes (if applicable) related to the decommissioning of other offshore wind farms. Attentive Energy will also incorporate results of relevant research and lessons learned from the decommissioning of other offshore facilities, including oil and gas platforms and offshore wind farms.

D.8 Project Decommissioning

Attentive Energy will be required to develop a Decommissioning Plan in support of the Project per 30 CFR 585. This plan will be informed by the extensive global experience of TotalEnergies', one of the Project Sponsors, decommissioning at sea projects. The COP will describe the decommissioning activities, including reference to requirements under 30 CFR 585.910. Attentive Energy will collaborate with, and seek input from, representatives of the commercial and recreational fishing communities associated with the Project Area in developing that plan. Attentive Energy will use information provided by these groups, along with stakeholders from State and Federal regulatory agencies, environmental and fisheries groups, and the F-TWG and E-TWG to develop a decommissioning plan that avoids and minimizes impacts to natural resources. Attentive Energy will use knowledge gained from pre- and post-construction monitoring, as well as monitoring and research efforts conducted by collaborators and other State, Federal, and university researchers and other offshore wind projects within this region, and others to inform the decommissioning approach.



By working collaboratively with ocean users and the fishing community, Attentive Energy can optimize on-water activity to prioritize safety and minimize impacts on natural resources

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- 7 CSA Ocean Sciences, Inc. and Exponent. 2019. Evaluation of Potential EMF Effects on Fish Species of Commercial or Recreational Fishing Importance in southern New England. OCS Study BOEM 2019-049. Sterling, Virginia: U.S. Department of the Interior, BOEM.

D.9 (Optional) Fisheries Compensation Plan

[Redacted text block]

Attentive Energy supports a regional, or national, fisheries compensation fund as an important backstop after individual Offshore Wind project's avoidance, minimization, and mitigation measures are developed.

[Redacted text block]

D.10 Additional Considerations

[Redacted text block]

[Redacted text block]



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www.attentiveenergy.com (Retrieved on 12/29/2022)

This survey has been updated as of 8/24/2022 to gather information on how the Attentive Energy Lease Area is used by the recreational and commercial fishing communities. The survey is open to fishermen and mariners and the information gained will be used to inform project-related decisions. <https://www.cognitofirms.com/AttentiveEnergy1/FishingCommunityMarinerOffshoreWindSurvey> (Retrieved on 12/29/2022)

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SECTION 15

ENVIRONMENTAL MITIGATION PLAN



Section 15 Table of Acronyms

ACP	Agency Communication Plan
ADLS	Aircraft Detection Lighting System
[REDACTED]	[REDACTED]
BACI	Before-After-Control-Impact
BMP	Best Management Practice
BOEM	Bureau of Ocean Energy Management
CFR	Code of Federal Regulations
CMECS	Coastal and Marine Ecological Classification Standard
COP	Construction and Operations Plan
DMA	Dynamic Management Area
DNA	Deoxyribonucleic Acid
E-TWG	NYSERDA's Environmental Technical Working Group
eDNA	Environmental Deoxyribonucleic Acid
EFH	Essential Fish Habitat
EMP	Environmental Mitigation Plan
ESA	Endangered Species Act
F-TWG	NYSERDA's Fisheries Technical Working Group
FCP	Fisheries Communication Plan
FMP	Fisheries Mitigation Plan
HRG	High-Resolution Geophysical
HVDC	High Voltage Direct Current
kV	Kilovolt
MW	Megawatt
NARW	North Atlantic right whale
[REDACTED]	[REDACTED]
NEAMAP	NorthEast Area Monitoring and Assessment Program
NGO	Non-Governmental Organizations

NJDEP	New Jersey Department of Environmental Protection
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NOWRDC	National Offshore Wind Research & Development Consortium
NYSDEC	New York State Department of Environmental Conservation
NYSDOS	New York State Department of State
NYSDOT	New York State Department of Transportation
NYSDPS	New York State Department of Public Service
NYSOGS	New York State Office of General Services
OCS	Outer Continental Shelf
OFLO	Fisheries Liaison Officer
OSRP	Oil Spill Response Plan
PAM	Passive Acoustic Monitoring
PSO	Protected Species Observer
PV	Plan View
RFP	Request for Proposal
ROSA	Responsible Offshore Science Alliance
RSZ	Rotor Swept Zone
RWSC	Regional Wildlife Science Collaborative
SAP	Site Assessment Plan
SAV	Submerged Aquatic Vegetation
SMA	Seasonal Management Area
SMS	Safety Management System
SPI	Sediment Profile Imaging

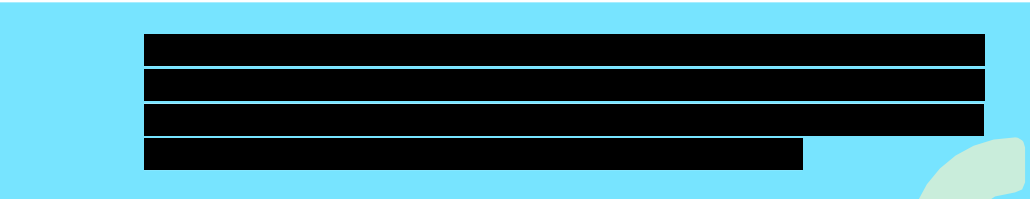
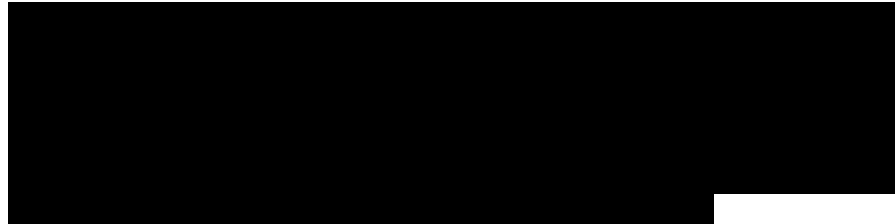
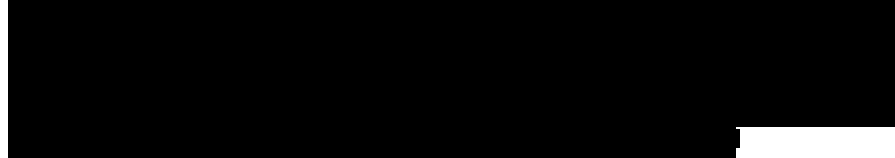
USFWS	United States Fish and Wildlife Service
VHF	Very High Frequency
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
WEDG	Waterfront Edge Design Guidelines
[REDACTED]	[REDACTED]
WTG	Wind Turbine Generation

15. ENVIRONMENTAL MITIGATION PLAN

E.1 Environmental Mitigation Plan Summary

Attentive Energy is designing the Project to achieve a no net loss of biodiversity. As such, Attentive Energy is committed to following the mitigation hierarchy, whereby environmental impacts are first identified and avoided where possible. When impacts are unavoidable, they are minimized and/or mitigated as appropriate.

This EMP describes Attentive Energy's approach to implementing the mitigation hierarchy. This EMP also describes Attentive Energy's environmental monitoring and research framework for birds, bats, marine mammals, sea turtles, and their habitat. The Sponsors have extensive experience in the offshore sector and a long history of designing and implementing successful environmental mitigation and monitoring plans.



E.2 Communications and Collaboration

Commitment to Stakeholder and Research Collaboration

Attentive Energy is committed to collaborating with other offshore wind developers and organizations to address stakeholder concerns more effectively, consistently, and over a larger geographic area. Attentive Energy has been actively collaborating with other developers by hosting joint port hours for commercial and recreational fisheries outreach. In January 2022, prior to winning the Lease Area, Attentive Energy joined the RWSC, is a full member of its Offshore Wind Industry Caucus, and participates in all of its subcommittees. Attentive Energy joined the advisory council of the ROSA in 2022. ROSA is an independent organization dedicated to providing for and advancing regional research and monitoring of fisheries and offshore wind interactions in Federal waters. Through its participation with these groups, Attentive Energy seeks to ensure that its research initiatives (described in Sections E.4 through E.7 of this EMP) are managed collaboratively and as regional efforts. Attentive Energy is also committed to consultation and coordination with relevant stakeholders including Federal and State regulatory agencies, NGOs, and research institutions, as well as the previously mentioned stakeholder groups and the general public. Attentive Energy has participated in the E-TWG and the F-TWG meetings and workshops and will continue coordinating with New York State agencies throughout the Project lifecycle.

As outlined in more detail in the *Stakeholder Engagement Plan*, Attentive Energy's communications and engagement philosophy is rooted in three commitments:

- Communicating frequently and proactively throughout the life of the Project (i.e., from pre-construction to decommissioning)
- Seeking to understand stakeholder concerns and interests
- Identifying and developing actionable objectives where practical

[Redacted text block]

Each commitment is based on understanding of the communities' needs and, diverse perspectives, as well as maintaining a responsive dialogue with all stakeholder groups.

Transparent Approach

The Project will prioritize transparency in development and permitting by sharing updates, plans, data, and other relevant information to ensure stakeholders are aware and engaged. This transparency is imperative to advancing NYSERDA's commitment to meaningful stakeholder engagement, as discussed in its *Guiding Principles for Offshore Wind: Stakeholder Engagement* (NYSERDA 2021). Such transparency furthers efforts toward collaboration, equity, inclusiveness, accessibility, accountability, flexibility, diversity, and proactivity in Attentive Energy's stakeholder engagement activities.

Attentive Energy recognizes the importance of data transparency and accessibility for all relevant stakeholders in supporting offshore wind development. We will work collaboratively with E-TWG, F-TWG, ROSA, RWSC to promote industry standardized scientific and survey methodology, and to provide access to environmental monitoring and research data for end users. Attentive Energy will aim to make non-proprietary data collected during survey campaigns publicly available as recommended in the NYSERDA (2021) report, *Wildlife Data Standardization and Sharing: Environmental Data Transparency for New York State Offshore Wind Energy*. Attentive Energy will work with NYSERDA and the regional science organizations to discuss data sharing and any data-sharing restrictions.

Early Engagement

In the four years prior to being awarded the Lease Area, Attentive Energy engaged with stakeholder groups as part of its pre-development efforts to introduce the team, share Attentive Energy's values and experience, and begin a meaningful and ongoing dialogue with a broad group of interested parties.

[Redacted text] These early engagement efforts shaped the Project's initial understanding of stakeholder concerns regarding development activities, and other matters related to the offshore wind industry. Attentive Energy's stakeholder engagement approach included information sharing with Federal, State, and local members of government, economic development organizations, environmental justice groups, fishing and maritime organizations, environmental NGOs, wind energy industry suppliers, and private citizens.

Ongoing Engagement and Communications Plans

As an offshore wind leaseholder, BOEM requires Attentive Energy to develop an ACP, [REDACTED] and a FCP. Each of these plans outline Attentive Energy's commitment and approach to providing early and transparent two-way communication with stakeholders to support effective collaboration throughout all phases of the Project.

Attentive Energy is developing an Environmental Monitoring and Ecosystem Research Program that will identify baseline data on the presence of wildlife including marine mammals, sea turtles, birds, and bats.

- The FCP was submitted to BOEM and published to Attentive Energy's website on August 23, 2022 (Attentive Energy, 2022).
- [REDACTED]
- On August 22, 2022, the draft ACP was shared with Federal and New York and New Jersey State agencies with jurisdiction related to the Project. Recipients included the NYSDEC, NYSDPS, NYSDOS, NYSDOT, and NYSOGS. A revised ACP was made publicly available on Attentive Energy's website on October 2022.

Attentive Energy's Stakeholder Engagement Plan further complements the aforementioned efforts. Together, these communication and engagement plans, with the EMP and FMP, provide transparency in Attentive Energy's approach to the development and delivery of the Project.

E.3 Environmental Monitoring and Research Pre-, During- and Post-Construction

Attentive Energy acknowledges the importance of thoughtfully planned, designed, and implemented monitoring and research pre-, during- and post-construction to understand the effects of offshore wind development

on the environment. Attentive Energy's Environmental Monitoring and Ecosystem Research Program will:

[REDACTED]

Attentive Energy has designed this Environmental Monitoring and Ecosystem Research Program through the review of existing information on the environmental resources that occur on the OCS and nearshore coastal waters of New York. As study plans are developed and approved, those documents will become attachments to the EMP. Attentive Energy's plan for monitoring and research of species that are of commercial and recreational fishing importance is described in the FMP. Results of the studies described in the EMP will provide a more complete understanding of how offshore wind development interacts with the surrounding environment, information which can interpret the results of studies conducted as part of the FMP (i.e., how changes to the environment may directly or indirectly affect the fisheries populations).

Identify Baseline Conditions of Project Area

Attentive Energy will establish baseline data on the presence of these types of wildlife within the area of the proposed Project (including areas where Project-related vessels would travel to reach the Project Area). There are numerous pre-existing, publicly available data sources including scientific studies and surveys performed by NMFS, USFWS, BOEM, New York State agencies (e.g., NYSERDA, NYSDEC), university researchers, and regional fisheries councils that provide valuable baseline data that has been used in the EMP. The studies conducted in association with the New York State Offshore Wind Master Plan are also important sources of baseline data and have been used to inform the design of the Environmental Monitoring and Ecosystem Research Program. A more complete reference of pre-existing data sources Attentive Energy is using to create a baseline characterization of the Project Area is within the Standardized Version of this EMP.

Quantify and Assess Project Related Impacts to Sensitive Resources

To supplement the information gained from publicly available baseline studies and data sets, Attentive Energy will conduct site characterization and pre-construction surveys within the Lease Area and along the ECR. These pre-construction surveys will characterize existing resources in order to properly assess and quantify impacts from expected project related activities. These studies will incorporate new technologies, innovative data gathering, analysis techniques which will provide site-specific data on presence/abundance, migratory movements, and habitat use by marine mammals, sea turtles, birds and bats, and commercially and recreationally important fish, invertebrates and their habitat (and the spatial extent and distribution of benthic habitats). These studies and surveys will be developed in collaboration with NYSERDA, ROSA, RWSC, Attentive Energy's research partners, and other stakeholders (e.g., regulatory agencies) through development of survey plans in coordination with BOEM per Lease Condition Addendum C, Paragraph 2.1. Additional details on the monitoring and research approach for each taxonomic group are provided in Section E.5, E.6, and E.7.

Monitor, Minimize and Mitigate Project Related Impacts

Attentive Energy is committed to avoiding Project related impacts to sensitive resources through monitoring, minimizing, and mitigation tools the extent practical. Where impacts cannot be monitored, minimized, and mitigated, Attentive Energy will explore compensatory mitigation. Attentive Energy will conduct surveys and studies to monitor for changes to baseline conditions that may be due to project activities, utilize strategies to minimize these impacts, and mitigate for these impacts to the extent possible. The aim of these studies is to adequately characterize the existing sensitive resources to further assess, monitor, minimize and mitigate Project impacts.

[REDACTED]

If adaptive management is needed, the EMP will be updated to reflect changes to the mitigation approach.

E.4 Supporting Other Environmental Research

Attentive Energy is committed to collaborating with the scientific community and will continue building upon its early and active participation in regional science organizations. Attentive Energy's primary coordination has been and will continue to be with NYSERDA's F-TWG, E-TWG, ROSA, RWSC, and NOWRDC.

[REDACTED]

Attentive Energy will aim to provide open-access availability to the data collected during its survey campaigns, as appropriate, allowing future projects to capitalize on this pioneering work.

Attentive Energy has been actively involved with RWSC, a consortium of researchers, offshore wind developers, Federal and State agencies, and environmental NGOs with a mission that includes advancing environmental/wildlife data collection through regional research and monitoring. RWSC is developing the *Integrated Science Plan for Wildlife, Habitat, and Offshore Wind Energy in the U.S. Atlantic*. Attentive Energy will apply elements from this integrated plan in the design of surveys and monitoring efforts. Additional practices include following existing agency guidance to implement BMPs and guidelines recommended by NYSERDA, (including NYSERDA's Offshore Wind Master Plan), NMFS, and BOEM. Attentive Energy aims to follow NYSDEC's and NYSERDA's baseline data collection efforts and current research partners to ensure data transferability. In addition, this EMP is informed by survey and mitigation recommendations from NYSERDA's E-TWG.

Attentive Energy recognizes that Project data can be of value for other environmental research. As described in Section E.3, Attentive Energy will aim to provide open-access for non-proprietary data collected during the Project lifecycle and will seek to have all relevant data published via the appropriate Federal review process and/or via peer-reviewed publications. Attentive Energy will manage any requests for non-publicly available data on a case-by-case basis, where certain data may be shared under non-disclosure agreements to facilitate collaboration.

[REDACTED]

Access for research studies would be similarly non-restrictive, so long as certain avoidance zones are followed in order to maintain safe and secure construction and operations.

[REDACTED]

[REDACTED]

[REDACTED]



Boat tour at NYC Student Day - Youth Power and Offshore Wind, 2022

[REDACTED]

[Redacted]

A summary of Attentive Energy’s proposed environmental initiatives, including partner organizations and research topics, is summarized in Table 15-1 below. Letters of intent and letters of support from various partner

[Redacted]

organizations for proposed environmental and fisheries investments are provided as attachments to Section 16 and 19.

Major areas of focus of the additional funds in the Environmental Monitoring and Ecosystem Research Program will include NARW (*Eubalaena glacialis*) conservation and coastal restoration efforts.

Marine Mammal Surveys / NARW Conservation

Vessel strikes, entanglement in fishing gear, and other potential and emerging threats such as climate change are significant threats to the NARW and other marine mammals.

[Redacted]

Attentive Energy is assessing how to expand the network with additional units, receivers, and analysis, and an expanded timeframe of the current scope of data collection.

[Redacted]

Attentive Energy is focused on decreasing risks to marine mammals from project development. Attentive Energy used small, autonomous survey vessels in its benthic campaign for the Project, monitored full-time by a vessel strike avoidance observer watching remotely for protected species. Overall, these vessels pose a substantially reduced noise and vessel strike risk to marine mammals than the risks posed by traditional survey vessels. Attentive Energy may also use subsurface and aerial drones throughout various surveys and monitoring campaigns to further reduce risks to marine mammals.

[Redacted]

Nearshore / Coastal Restoration

The export cable route in state waters makes landfall at Ravenswood. Additionally, the cable route proposed through state waters avoids conflict areas and minimizes environmental impacts to the extent possible, in alignment with the goal of deploying a project that is minimally invasive to the environment. By having the export cable route make landfall at Ravenswood, the Project avoids impacts to coastal wetlands, marshes, beaches, and other sensitive coastal resources. The export cable route as routed through state waters also avoids impacts to sensitive near shore habitats and wetlands. Coastal resources such as SAV, living breakwaters, artificial reefs, and saltmarshes provide valuable ecosystem services such as improving water quality, providing storm protection, and creating habitat for threatened and endangered species.

Even though the proposed export cable route is not expected to significantly affect these resources, Attentive Energy is investigating opportunities to provide funding for coastal habitat restoration, water quality improvement, and storm resiliency projects along the New York coastline and Hudson River Estuary. These efforts are important for ecosystem and community resiliency and will contribute to Attentive Energy's no-net loss of biodiversity goal for the Project. As part of these efforts,



Salt marsh, Long Island, NY

Attentive Energy is also working with the USFWS to identify priority saltmarsh restoration projects to benefit at-risk terrestrial species, such as the saltmarsh sparrow.

The design at Ravenswood will modify the existing bulkheads and hardened infrastructure along the shoreline. Attentive Energy is assessing how to incorporate nature-based solutions and coastal resilience practices to the extent feasible in these areas, specifically being informed by WEDG specifications. The Project aims to align with the New York City Comprehensive Waterfront Plan 2021's strategic goals for Climate Resilience and Adaptation and Economic Opportunity, and the design will comply with all regulations including stormwater requirements.

E.5 Marine Mammals and Sea Turtles

E.5.1 Baseline Characterization

Marine Mammals: Fifty species of marine mammals inhabit the U.S. waters of the northwest Atlantic Ocean (BOEM 2021). Of these species, 31 taxa may occur in the New York Bight and all are protected under the Marine Mammal Protection Act. Five are listed under the Federal ESA including the blue whale (*Balaenoptera musculus*), fin whale (*Balaenoptera physalus*), sei whale (*Balaenoptera borealis*), sperm whale (*Physeter macrocephalus*), and the NARW.

Generally, habitat use by marine mammals in the New York Bight is concentrated near the continental shelf break and Hudson Canyon (NYSERDA 2017a), seaward of the Lease Area. Of the 31 taxa that occur in the New York Bight, 19 species use deep-water habitats near the shelf break or over the continental slope and/or are rare in the region, and therefore unlikely to occur in the Project Area. Twelve species are likely to occur in the Project Area: four mysticetes, including fin whale, humpback whale, minke whale (*Balaenoptera acutorostrata*), and NARW; five odontocetes, including Atlantic white-sided dolphin (*Lagenorhynchus*), bottlenose dolphin (*Tursiops truncatus*), harbor porpoise (*Phocoena phocoena*), Risso's dolphin (*Grampus griseus*), and short-beaked common dolphin (*Delphinus delphis*); and three pinnipeds, including gray seal (*Halichoerus grypus*), harbor seal (*Phoca vitulina*), and harp seal (*Pagophilus groenlandicus*).

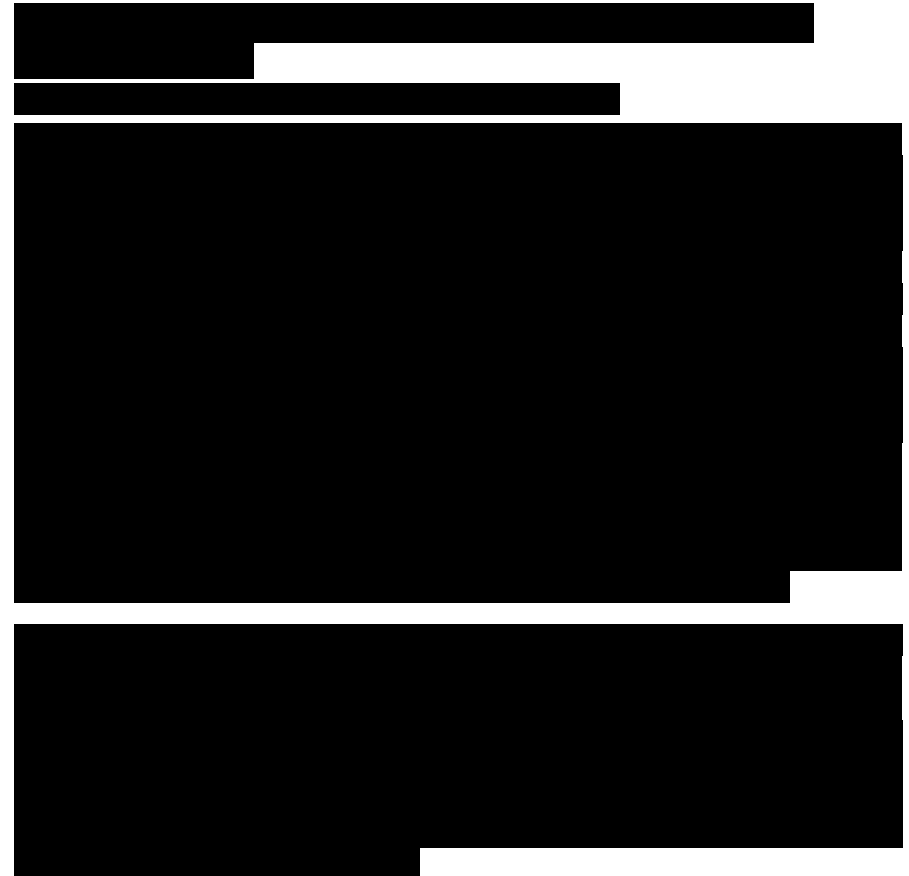
Low-frequency cetaceans (i.e., whales with hearing in the low frequency range), which include all the baleen whales (*Mysticeti*), are most likely to occur in the Project Area during the spring and the summer. Mid-frequency cetaceans, which include dolphins, are most likely to occur in the Project Area in the fall followed by the winter. High-frequency cetaceans, which include the harbor porpoise (*Phocoena phocoena*), are most likely to occur in the Project Area in the spring followed by the winter. Seals (*pinniped*) may occur from fall through spring, though their occurrence in the New York Bight is concentrated northeast of the Lease Area.



Chelonia mydas, green sea turtle

Sea Turtles: Five species of sea turtle have been documented in the U.S. waters of the northwest Atlantic Ocean: green (*Chelonia mydas*), hawksbill (*Eretmochelys imbricata*), Kemp’s ridley (*Lepidochelys kempii*), leatherback (*Dermochelys coriacea*), and loggerhead (*Caretta caretta*). Hawksbill sea turtles are rare in this region and are not expected to occur in the New York Bight (BOEM 2021a). Existing information suggests the other four species are likely to occur in the area, and all these species are listed under the ESA.

Generally, habitat use by sea turtles in the New York Bight is concentrated offshore of the southern portion of New Jersey, including waters of the Lease Area. Sea turtles migrate seasonally with changing water temperatures between feeding grounds in northern latitudes and nesting grounds in the southern U.S., Gulf of Mexico, and Caribbean. Sea turtles are expected to use the Project Area from May through November, with the highest densities expected in the summer. Some individuals may remain during winter when hard-shelled turtles (i.e., green, Kemp’s ridley, and loggerhead sea turtles) are vulnerable to cold stunning.



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[REDACTED]

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E.6 Birds and Bats

E.6.1. Baseline Characterization

Birds: The New York Bight falls within the Atlantic Flyway, a major migratory front for all taxonomic groups of eastern North American birds during spring and fall. Most migration activity is concentrated along the coast, but migrating birds, including terrestrial songbirds, may occur far offshore by taking direct over-water flights between the eastern U.S. and their Caribbean and Neotropical wintering grounds. Migrating songbirds tend to fly at altitudes well above the rotor swept zone of a typical WTG. Raptors are most abundant during fall migration and most concentrated along the coastline. Eagles, ospreys, and other raptors typically remain close to shore or overland, with the exception of falcons, which can occur far offshore with more regularity. The New York Bight also supports summer time breeding populations of coastal and marine birds, some of which nest on the coast and forage at sea (e.g., gulls and terns). Other summertime birds, such as shearwaters and storm-petrels, breed in the Southern Hemisphere and then migrate to the New York Bight for the Northern Hemisphere's summer. In the fall, these and other species that occur in the New York Bight during summer migrate southward and are replaced by more northern-breeding species that move south from Canada to overwinter along the mid-Atlantic coast.



Larus argentatus, Atlantic gull



Attentive Energy does not expect any material impacts to bats as a result of the Project

A widely cited analysis of the sensitivity of birds to offshore wind development on the Atlantic OCS found gulls (*Larinae*), jaegers (*Stercorarius*), and the northern gannet (*Morus bassanus*) to have the greatest vulnerability to collision mortality (Willmott et al. 2013). These data are largely consistent with similar studies in Europe. The risk of these species to collisions with offshore WTGs is mainly due to their high abundance on the OCS relative to other birds, their low rates of WTG avoidance, and their long passage times through RSZs. However, the percentage of these species' populations that occur in the lease areas on the Atlantic OCS is low and greatly limits the potential for population-level impacts.

Three Federally-listed bird species have the potential to pass through the proposed site: roseate tern (endangered), piping plover (threatened), and

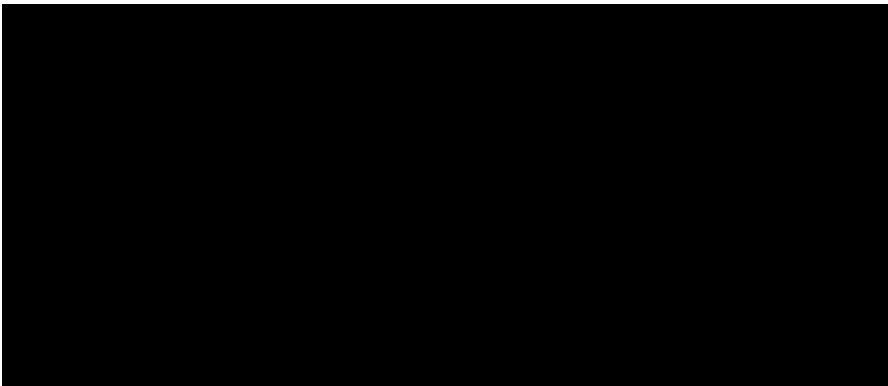
red knot (threatened). However, their potential occurrence is limited to spring and fall migration, and surveys and tracking studies have infrequently observed these species far offshore, in the vicinity of offshore wind lease areas. Their infrequent occurrence on the Atlantic OCS limits the potential for population-level impacts from wind power development in the area.

Bats: Nine species of bats occur in New York and can be classified into two groups: cave-hibernating bats and migratory tree bats. Cave-hibernating bats, which include the Indiana bat (*Myotis sodalis*) and Northern long-eared bat (*Myotis septentrionalis*), are rarely observed far offshore. Migratory tree bats, by comparison, occur offshore more commonly, but in low abundance. They include the Eastern red bat (*Lasiurus borealis*), hoary bat (*Lasiurus cinereus*), and silver-haired bat (*Lasionycteris noctivagans*), none of which are Federally or New York State-listed. Occurrences of these species far offshore are almost entirely limited to fall migration when they fly from the Northeast and Mid-Atlantic region to the southeast for winter and even then, their occurrence offshore is minimal relative to their population sizes and densities on land. The Eastern red bat accounts for the majority of offshore bat activity during fall. Overall, the occurrence of bats on the Atlantic OCS is relatively low and few are expected to be encountered in the Lease Area.

E.6.2 Pre- and Post-Construction Data Collection

Collision and abundance monitoring will be designed in consultation with stakeholders, external experts, and regulatory agencies. Efforts will be informed by discussions with E-TWG and the RWSC bird and bat subcommittee.





E.7 Fish, Invertebrates, and Their Habitats

E.7.1 Baseline Characterization

Attentive Energy will avoid to the extent possible locating facilities near sensitive habitats, including corals, hard bottom, and seagrass habitats, while minimizing scour and sediment suspension.

No sanctuaries, national marine sanctuaries, or national estuarine research reserves occur within the Project Area.

The Project Area, which includes the water column and the seafloor in the Lease Area and export cable route, consists of a diverse assemblage of fish and invertebrate species, including species that are valued in commercial and recreational fisheries and forage species. The Project Area is located within the New York Bight region of the OCS where over 300 fish species move between estuarine, inshore, and offshore habitats daily, seasonally, or throughout their life cycle (NYSDEC 2017a). Benthic habitat within the Project Area is relatively flat and composed of soft, sandy sediments, dominated by medium to coarse sands with mud or gravel content present in discrete areas (Williams et al. 2007; Guida et al. 2017). Seafloor slope is gentle and seaward with depth contours generally paralleling the shoreline. Predominant bottom features include a series of ridges and troughs characterized by relatively coarse sediments on ridges and finer sediments and higher organic matter in troughs. Sand ripples are widespread and often dominant throughout the area; sand waves and sand bars are also common across the area (Guida et al. 2017; NYSCEC 2017b).

E.7.2 Fish and Invertebrate Species of Concern

Benthic communities are generally similar across the Project Area, with all surveyed stations classified as the CMECS Soft Sediment Fauna Biotic Subclass. Common invertebrate taxa observed within the Project Area include members of the phyla Echinodermata (holothurians, ophiuroids, echinoids, asteroids), Annelida (priapulids and tube-building and burrowing polychaetes), Cnidaria (anemones, hydroids), Mollusca (gastropods and bivalves), and Porifera, as well as tunicates, bryozoans, and burrowing

amphipods. The main biotic community observed throughout the area was Echinocardium Bed, with the sand dollars being observed at the majority of stations (NYSERDA 2017b).

Fish species in the New York Bight can be categorized as “demersal” fishes that inhabit near-bottom waters or “pelagic” fishes that inhabit the water column. Demersal fish may be further categorized by whether they generally associate with non-complex (i.e., soft-bottom habitat) or complex benthic habitat (i.e., hard-bottom, structured habitat). The Lease Area is designated as EFH, defined as “those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity,” for various life stages of 21 non-migratory managed species, including finfish, sharks (*Selachimorpha*), and skates (*Rajidae*), and invertebrates, as well as 11 highly migratory managed fish species, including seven shark species and four tuna species (NMFS 2022a). The Lease Area supports EFH of commercially and recreationally valuable species including Atlantic sea scallop (*Placopecten magellanicus*), longfin squid (*Doryteuthis pealeii*), shortfin squid (*Illex illecebrosus*), Atlantic surfclam (*Spisula solidissima*), Atlantic herring (*Clupea harengus Linnaeus*), monkfish (*Lophius piscatorius*), scup (*Stenotomus chrysops*), ocean quahog (*Arctica islandica*), Atlantic butterfish (*Peprilus triacanthus*), bluefish (*Pomatomus saltatrix*), and red hake (*Urophycis chuss*).

Three Federally-listed endangered fish species that may occur in the Project Area: Atlantic salmon (*Salmo salar*), Atlantic sturgeon (*Acipenser oxyrinchus*), and shortnose sturgeon (*Acipenser brevirostrum*) (NMFS 2022c). NMFS recognizes five additional species of concern that may occur in the Project Area: alewife (*Alosa pseudoharengu*), Atlantic wolffish (*Anarhichas lupus*), blueback herring (*Alosa aestivalis*), rainbow smelt (*Osmerus mordax*), and thorny skate (*Amblyraja radiata*) (NYSERDA 2017). There are no known Federally-listed invertebrates and no invertebrate species of concern present in the Project Area (NYSERDA 2017a). Species like flounders, hakes (*Merluccius*), and skates inhabit non-complex benthic habitat, which is the dominant habitat type that may be impacted by placement of WTG foundations, scour protection, and cable protection. It is expected these species could move to similar habitat in adjacent areas. Species that inhabit complex benthic habitat (e.g., American lobster (*Homarus americanus*), black sea bass (*Centropristis striata*), monkfish, scup), however, may benefit from the new structurally complex habitat, which is less common within the New York Bight.



Salmo salar, Atlantic salmon

E.7.3 Pre- and Post- Construction Impact Identification

In order to adequately characterize baseline conditions within the Project Area and to assess potential Project-related impacts to sensitive environmental resources, such as fish, invertebrates, benthic habitats, ESA-listed species, and NMFS “species of concern,” Attentive Energy will conduct pre- and post-construction monitoring surveys. Attentive Energy aims to replicate survey design and partner with researchers performing baseline environmental surveys for NYSEDA.

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

E.8 Considerations for Subsea and Overland Cables

E.8.1 Subsea Cables

Attentive Energy's routing considers a variety of studies including NYSERDA's *Draft Offshore Wind Cable Corridor Constraints Assessment*.

The placement of buried or armored inter-array and export cables and cable maintenance activities can result in impacts to sea turtles, marine mammals, fish, and invertebrates through direct disturbance to the seafloor, temporary increases in suspended sediments, sediment deposition, habitat conversion, and vessel traffic during cable installation (see Section E.5.3 for further discussion). Efforts will be made to avoid impacts to benthic and demersal resources during construction and maintenance of subsea cables, and Attentive Energy will implement mitigation measures to offset any unavoidable impacts to these resources (see Section E.7.3 for further discussion on mitigation measures for fish and benthic invertebrates). Publicly available data shows it is unlikely SAV resources would be impacted by cable-laying and maintenance activities, as SAV is not typically found in the areas near the Project. SAV field surveys conducted for the Project confirm the publicly available data.



E.9 Additional Considerations

Attentive Energy will revise the EMP to reflect any important new information resulting from the continued collaboration with agencies, research organizations, and other stakeholders.

⁶ Bureau of Ocean Energy Management (BOEM, 2019) Guidelines for Information Requirements for a Renewable Energy (SAP) , United States Department of the Interior, Office of Renewable Energy Programs, June 2019, Available online

E.10 Project Decommissioning

Several years prior to the planned decommissioning, the Project will develop a decommissioning plan.⁶ Attentive Energy will seek input from stakeholders including State and Federal regulatory agencies, environmental and fisheries groups, and NYSERDA's F-TWG and E-TWG to develop the decommissioning plan. Specific consideration will be given to habitat formed as a result of the installed structures (e.g., WTG foundations, scour protection, cable protection) placed in the water during Project construction and the biological communities that formed over the life of the Project. To further inform the preparation of the decommissioning plan, Attentive Energy will remain engaged with the research community, and will stay current with research and monitoring and regulatory changes related to the decommissioning of other offshore wind facilities around the world. Lessons learned from other projects' operations will be incorporated into the decommissioning plan.

The confidential version of the EMP Standardized Component is provided as Attachment 15-A. The public version of the EMP Standardized Component is provided as Attachment 15-B.



Snowy egret (*egretta thula*), Long Island, New York

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SECTION 16

STAKEHOLDER ENGAGEMENT PLAN



Section 16 Table of Acronyms

BNOW	Business Network for Offshore Wind
BOEM	Bureau of Ocean Energy Management
CBO	Community-Based Organization
CDFI	Community Development Financial Institutions
████	████████████████████
Climate Act	Climate Leadership and Community Protection Act
CRM	Client Relationship Management
CUNY	City University of New York
DBE	Disadvantaged Business Enterprise
DEIJ	Diversity, Equity, Inclusion, and Justice
DEIJCEE	Diversity, Equity, Inclusion, and Justice Clean Energy Exchange
DOBE	Disability-Owned Business Enterprise
FMP	Fisheries Mitigation Plan
GWO	Global Wind Organisation
IBEW	International Brotherhood of Electrical Workers
IPF	International Offshore Wind Partnering Forum
IWA	International Water Association
LGBTBE	Lesbian, Gay, Bisexual, and Transgender-Owned Business Enterprise
LGBTQ	Lesbian, Gay, Bisexual, Transgender, and Queer
M-TWG	NYSERDA's Maritime Technical Working Group
MTA	Metropolitan Transportation Authority
MW	Megawatt

MWBE	Minority and Women Owned Business Enterprises
NAACP	National Association for the Advancement of Colored People
NATCP	Native American Tribes Communication Plan
NYCDEP	New York City Department of Environmental Protection
NYCDOT	New York City Department of Transportation
NYCEDC	New York City Economic Development Corporation
NYCHA	New York City Housing Authority
O&M	Operations & Maintenance
POI	Point of Interconnection
Q+A	Question and Answers
SCIP	Supply Chain Investment Plan
SDVOB	Service-Disabled Veteran Owned Businesses
STEM	Science, Technology, Engineering, and Math
SUNY	State University of New York
Tribes	Tribal Nations and Tribal Organizations
USCG	U.S. Coast Guard
WiFi	Wireless Fidelity
WTG	Wind Turbine Generator

16. STAKEHOLDER ENGAGEMENT PLAN

F.1 Stakeholder Engagement Plan Summary

Stakeholder engagement is central to Attentive Energy’s mission of putting community first, on and off the coast. Because Attentive Energy understands that stakeholder engagement is critical for long-term Project success, Attentive Energy recognizes that prioritizing stakeholder engagement is a prerequisite for New York to meet the goals of the Climate Act. To achieve successful stakeholder engagement that helps address past environmental injustices, the Project makes three core commitments:

1. Communicating frequently and proactively throughout the life of the Project (i.e., from pre-construction to decommissioning)
2. Understanding stakeholder concerns and interests
3. Developing actionable objectives where practical to address stakeholder concerns and interests

All New Yorkers will receive economic and quality of life benefits deriving from the Project. These include statewide Project impacts focused on workforce, supply chain, sustainability, and environmental justice. Additionally, Attentive Energy has designed the Project to maximize benefits for communities that are at the frontline of exposure to fossil fuel generation and industrial activities. These frontline communities have also faced historic environmental justice challenges and those in the immediate vicinity of Ravenswood have endured decades of industrial emissions and diesel truck traffic. At the vital center of the Project’s stakeholder engagement strategy is a geographic and interest-based approach that rests on deep and abiding relationships with environmental justice, workforce development, and community-based organizations.

Attentive Energy’s engagement with frontline and Disadvantaged Communities undertaken since 2018 is firmly aligned with the goals adopted in the recently passed New York Climate Action Plan, especially the Just Transition goals in Chapter 7.

Attentive Energy has identified approximately 300 census blocks identified by New York State as Disadvantaged Communities that are nearby Project components and may benefit directly from the Project. Throughout the lifetime of the Project, Attentive Energy will actively solicit feedback from Disadvantaged Communities concerning workforce training, development opportunities, and community interests and aspirations.

In this Submission, Attentive Energy has offered various Proposals that include SCIPs, each featuring its own Stakeholder Engagement Plan for communities proximal to SCIP facilities. If Attentive Energy is awarded a Proposal with a SCIP, the Project’s Stakeholder Engagement Plan will be expanded to embrace those impacted communities.

F.2 Stakeholder Identification and Stakeholder List

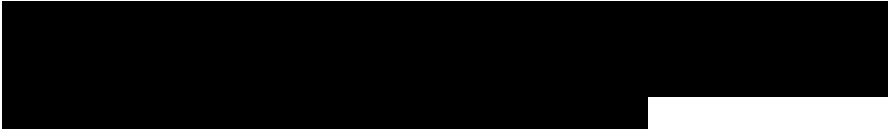
Community Engagement Background

Attentive Energy combines TotalEnergies’ global offshore experience and Rise’s deep connections in NYC, which complement each other and serve as a robust foundation for mature and trusted relationships at sea, at the POI, and across the State. Attentive Energy has undertaken proactive stakeholder engagement surrounding offshore wind development in New York State since 2019, three years before obtaining a lease from BOEM. Since its inception, Attentive Energy has engaged thousands of individual stakeholders as an active community member in the region.

[REDACTED]

In these associations, Attentive Energy participates in working groups and collaborates with industry peers on discussions around key stakeholder groups, their top concerns, and their preferred methods of engagement.

[REDACTED]



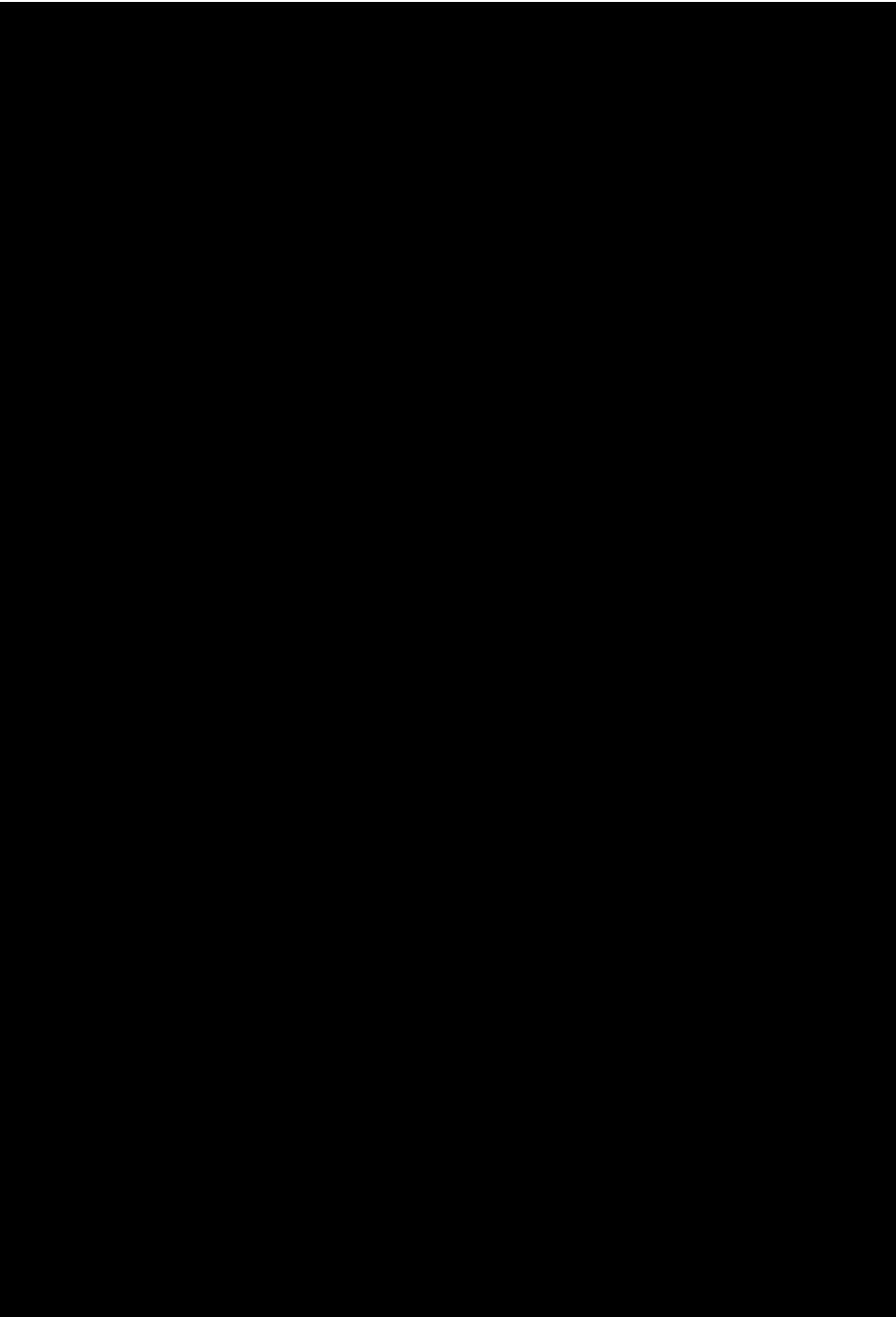
Throughout its historical presence in the region, Attentive Energy has nurtured trusted relationships, commenced early investments that sustainably benefit the industry and local communities, and collected insights that have shaped the Project’s approach to stakeholders.

Attentive Energy will continue learning from those who have come before in the industry and will build upon these efforts to create a truly inclusive offshore wind industry.

As seen in Table 16-1, between 2021 and 2022 alone, Attentive Energy has sponsored events and initiatives in the region, including industry-led events, support for local organizations working to advance the offshore wind industry and clean renewable energy transition, and Project- focused events related to community service. Additionally, Attentive Energy employs a robust team of stakeholder engagement professionals, which include dedicated Tribal, labor, fisheries, and DEI liaisons that have helped shape the Project by establishing trust and transparent feedback loops with stakeholders.



Figure 16-1 Rise Light & Power Hosts NYCHA Food Distribution with Congressmember Carolyn Maloney, Ravenswood Houses Resident Association, Share for Life Foundation, and Brooklyn Packers



Through Rise, Attentive Energy maintains close relationships with the four Western Queens NYCHA campuses, their Resident Councils, and the social service organizations that serve these campuses. These NYCHA campuses represent about 16,000 New Yorkers who live in public housing and who have long borne the burdens of the fossil fuel economy:

- **Queensbridge Houses**, the largest public housing development in North America, contains 29 buildings and houses over 6,000 residents directly across the street from Ravenswood.
- **Ravenswood Houses** is located just blocks from Ravenswood and contains 4,000 residents across 31 buildings.
- Over 3,000 residents live in the **Astoria Houses**, a 24-building complex spread over 32 acres about a mile away from Ravenswood.
- **Woodside Houses**, about two miles from Ravenswood, houses upwards of 2,800 residents across 1,357 units.¹

Prior philanthropic activities in the area include nearly two dozen community development initiatives, such as scholarships and college savings accounts, youth mentorship and senior services, workforce and small business development, and middle and high school STEM and environmental science curriculum development. Many of these efforts focused on the four NYCHA campuses. Since 2021, Rise has contributed nearly \$1 million to programs and organizations that benefit NYCHA residents, including backpack giveaways, Thanksgiving meal donations, toy drives during the winter holidays, and funding for scholarships, workforce development, and anti-violence programming.

In partnership with SUNY Maritime and Horizons National, Attentive Energy recently sponsored *NYC Student Day: Youth Power and Offshore Wind*, a program designed to expose middle school students from NYC's Disadvantaged Communities to careers in the offshore wind and maritime industries. More than 30 youth participated in this hands-on training offering interactive experiences with the latest technology and provided positive feedback on the experience, with several showing interest in exploring careers in the offshore wind industry.

¹ NYCHA Development Data Book

Attentive Energy and its Sponsors have also forged relationships with environmental justice and community development organizations active in Disadvantaged Communities. [REDACTED]

[REDACTED]

Attentive Energy has frequent dialogues with local and statewide community leaders through its various initiatives, and this engagement has helped shape the Project's community development approach.

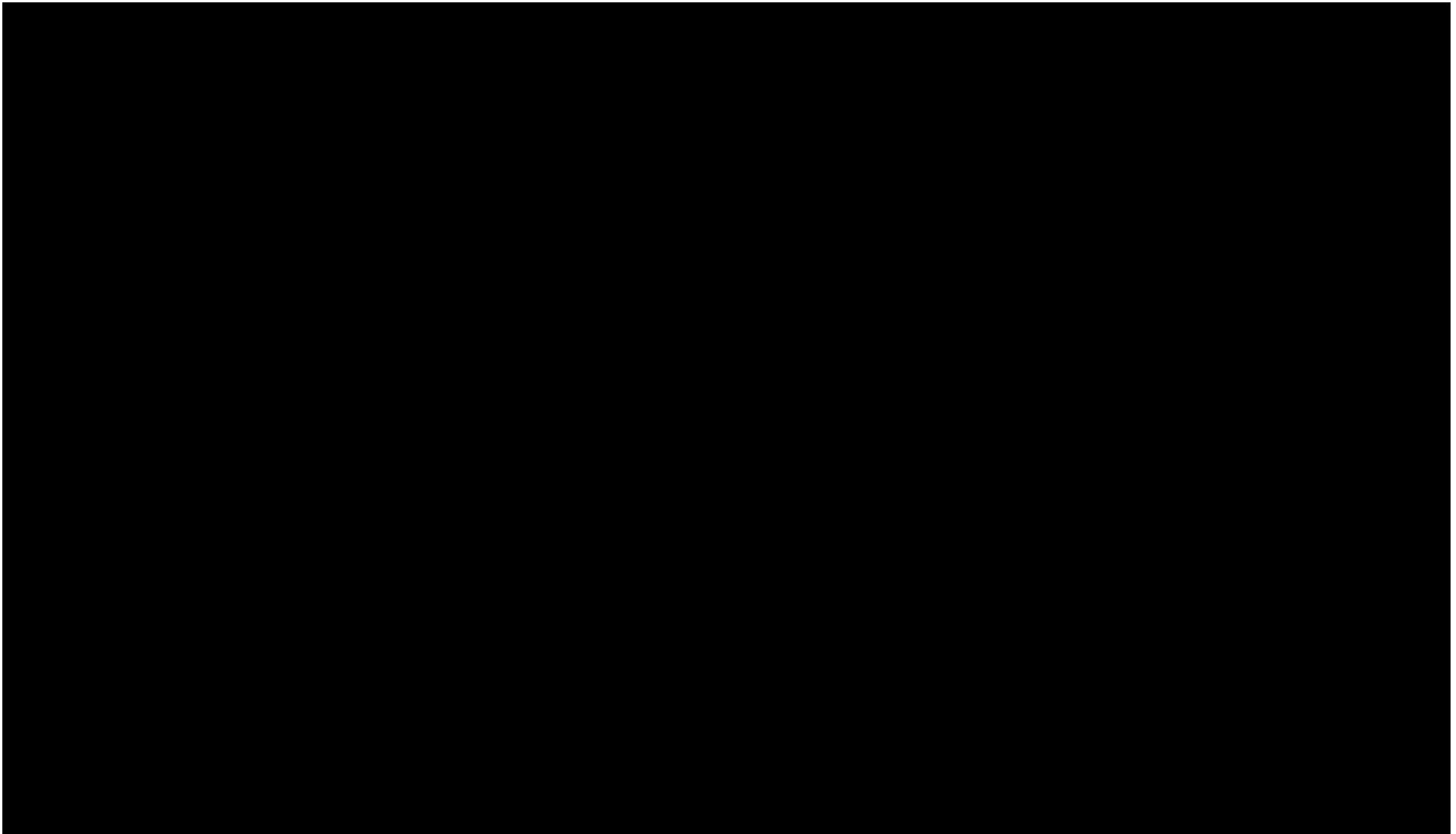
Individual outreach and communication approaches will be tailored to ensure that the needs of all stakeholders are heard and incorporated into each iteration of the Stakeholder Engagement Plan.

Offshore Wind Stakeholders

Throughout the Project lifecycle, Attentive Energy will strengthen existing relationships and build new ones with offshore wind stakeholders across New York State. This individualized approach to stakeholder engagement will result in more inclusive and effective partnerships.

Table 16-2 provides an overview of Project stakeholder categories and prospective partnership and investment opportunities. The table also identifies the geographies of these groups, the engagement themes, and Project phases during which the groups will be engaged. The stakeholder categories were synthesized through feedback gathered from Attentive Energy's ongoing engagement with local leaders and residents in the years leading up to this Submission.

Additional insight has been captured from Attentive Energy's participation across different local and regional working groups. A comprehensive overview of stakeholders that Attentive Energy has engaged to date in relation to the Project is provided in Attachment 16-A.



Frontline Communities

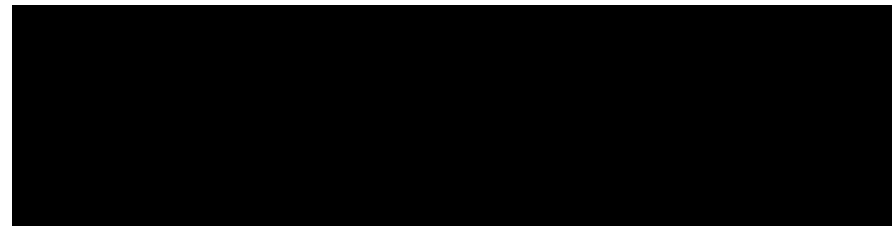
Frontline communities are disproportionately burdened by noxious land uses and facilities associated with historical discrimination, disinvestment, and pollution exposure. They are a subset of Disadvantaged Communities, as these facilities are frequently in low-income communities and communities of color. Frontline communities include communities within Western Queens in close proximity to Ravenswood, and communities close to onshore and offshore components of the Project across three boroughs of NYC, which include:

- Southwest Brooklyn (Sunset Park, Red Hook)
- North Shore Staten Island (St. George, Tompkinsville)
- Lower Manhattan (Lower East Side, Two Bridges)

The Project envelope is designed to have minimal negative impacts on frontline communities. Beyond that, frontline communities will be engaged during each phase of the Project and prioritized for economic opportunities and quality-of-life benefits related to offshore wind development and investments.

Disadvantaged Communities

The Climate Act calls for the energy sector to prioritize the safety, health, and economic growth of Disadvantaged Communities and adopts practices that enable and empower these communities to thrive in the clean energy future. Disadvantaged Communities will be engaged in the Project, bringing historical knowledge and local expertise to inform workforce training, development opportunities, and community investments.



Just Transition, Workforce Development, and MWBEs/SDVOBs

This Project will engage the following Just Transition and workforce development offshore wind stakeholders: labor leaders and organizations, unions, MWBEs, SDVOBs, DOBEs, LGBTBEs, DBEs, training and research institutions, economic and workforce development organizations, K-12 schools, and higher education. To date, Attentive Energy has engaged a wide range of academic institutions, including several CUNY and SUNY schools, and colleges from the Hudson Valley to Long Island to jointly develop an offshore wind talent pipeline and workforce strategy.



In August 2022, Attentive Energy and MRV Group partnered to release a MWBE/SDVOB and Nonprofit Survey to seek feedback from for-profit and nonprofit organizations in New York. The survey focused on procurement processes, grant applications, and DEIJ business certification, such as MWBEs, SDVOBs, DOBEs, LGBTBEs, DBEs, Tribal Communities, and justice involved people. Participants are eligible for a business development award that comprises networking and mentorship opportunities, including a private session with offshore wind executives.





In February 2023, Attentive Energy will release a public report that outlines the survey findings and stakeholder recommendations to make a more inclusive offshore wind supply chain. The report is available as Attachment 16-B, and it will inform the design and execution of DEIJ business engagement and inclusion in the Project. It will also serve as a resource for the offshore wind industry and public agencies on how to equitably include these groups.



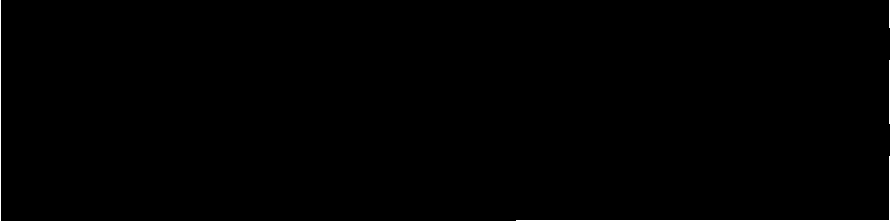
Community-Based Organizations

CBOs are a central avenue by which Attentive Energy will build a presence in the diverse communities throughout the State. Engaging with CBOs cultivates trusting relationships with the local communities. CBOs often have deep histories in their host communities, providing an efficient manner by which Attentive Energy can disseminate information and collect feedback. Additionally, CBOs often administer other health and human services that are offered to communities in New York State, providing a broader context to the value of economic development and community involvement. Therefore, a broad range of CBOs – including youth service providers, community centers, arts and educational organizations, and advocates active in the areas near Project activities – will serve as key sources of community feedback, local talent development, and connection

to the small business community. Attentive Energy will meet with CBOs and invite them to attend engagement events throughout the Project lifecycle. CBOs in targeted frontline communities will also receive investments through the Project to help ensure that resources are equitably distributed and benefits localized in communities where they are most needed.

Environmental and Advocacy Organizations

Environmental and advocacy groups will contribute invaluable perspectives throughout the Project lifecycle and will help Attentive Energy identify community priorities, concerns, available resources, and opportunities for collaboration.



Attentive Energy will continue engaging these organizations, in addition to advocacy, environmental, and community groups. In addition to individual engagement, Attentive Energy will invite these organizations to join public engagement meetings, sign up for Project email and website updates, and participate in other inclusive decision-making processes.

Indigenous Nations

Attentive Energy recognizes the importance of understanding the historical and cultural ties of Indigenous Nations to inform responsible offshore wind development. Native American peoples have a long history in the region, having established communities in and around the Project Area millennia before European contact. Indigenous Nations also have a unique reliance on, interaction with, and knowledge of coastal and marine environments. As such, Attentive Energy has made it a priority to better understand the interests, opinions, concerns, and recommendations of Indigenous Nations to help guide Project development.

To gain an understanding of Indigenous Nations' history in the region, Attentive Energy's team includes a Tribal Liaison to engage with the 16 Tribes with historical and cultural ties to the Lease Area. Attentive Energy has used this engagement to gain perspective on the resources that may be of interest to Tribes. The identified Tribes are listed in Section 18.

Attentive Energy's Tribal Liaison distributed a Tribal Engagement Survey to the 16 Tribes to help identify their interest in the Project and communication preferences.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Fishing and Maritime Industries

[REDACTED]

This includes the Lease Area and the planned export cable route which crosses Lower New York Bay, Upper New York Bay, and the East River. Maritime representatives of these groups and others, who operate offshore and inshore, offer important experience and knowledge of marine issues relevant to the Project (e.g., prevailing marine traffic, Federal routing measures, port development plans, radio protocols, weather patterns, and underwater hazards). These stakeholders may note interests and concerns that help improve the Project's overall approach to safety and/or require attention during Project design, construction, and operation. Based on years of engagement with fishing communities from Massachusetts to New Jersey, Attentive Energy recognizes the desire of stakeholders from these groups to be informed and heard regarding Project plans, including, but not limited to, WTG siting and layout, cable routing, access to fishing, and de-confliction of on-water activities (e.g., survey vessels).

Attentive Energy's engagement includes participation in joint offshore wind developer port hours in ports including Montauk and others in Long Island, attendance at regional Fisheries Management Council meetings, and one-on-one meetings with fishermen and seafood processors from Massachusetts to New Jersey. In late 2022, Attentive Energy released an update to its survey to solicit specific feedback on fishing and marine activity in and around the Lease Area. Feedback from the survey has been assessed and incorporated into siting and layout decision processes.

In October 2020, Attentive Energy launched a direct mail and online Fishing Community and Mariner Offshore Wind Survey to over 3,000 mariners and fishermen in the New York Bight to establish contacts in the industry and solicit feedback. Engagement with fishing communities continued in the intervening years prior to BOEM's 2022 New York Bight offshore wind lease auction and continues to expand.



Attentive Energy will continue engaging maritime industry groups and individuals and include them in all phases of Project development. Communications and outreach with commercial and recreational fishing industry representatives will be guided by Attentive Energy's Fisheries Communication Plan, which was first published online in 2020, and its Fisheries Mitigation Plan. Both documents are included as part of this Submission.

Steel Industry

Iron and steel manufacturers across the State and the U.S. will have the opportunity to work with the Project and will be provided access to many resources, including the New York Offshore Wind Supply Chain Database. Attentive Energy is engaging the U.S. Steel industry in discussions on how to most effectively source components, materials, and equipment during construction. This dialogue also covers the Project's supply chain and manufacturing facilities and potential challenges in meeting supply chain requirements. Attentive Energy anticipates a significant demand for steel products required to construct the Converter Building at Ravenswood, for which domestic sources are readily available to supply. As of this Submission, Nucor is the only steel mill advertising a facility that manufactures steel

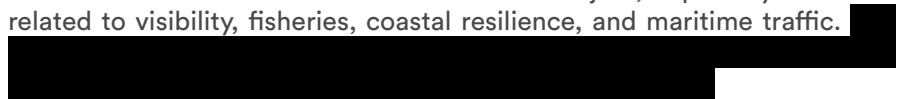
plates to the required specifications of offshore wind structural steel components. Attentive Energy expects additional steel mills will be able to provide the required components in the future. Attentive Energy will continue engaging these companies to assess how the steel required to meet the minimum provision of \$114,000/MW in domestic steel purchases will be delivered, with the hopes to deliver even higher value if possible.

Coastal Tourism and Recreation

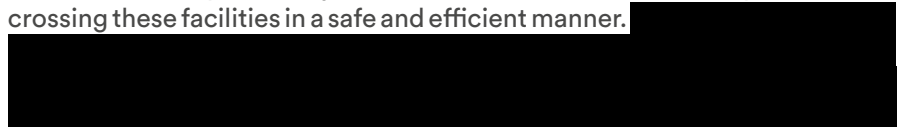
The local tourism industry and recreation sector – including, but not limited to, cruise lines and passenger vessels, resorts with coastal views, and sailors – operating along the New York State coastline, offshore, and in local ports, will have interests in offshore wind projects, related to the visibility of structures and port access. Attentive Energy will engage the coastal tourism industry and recreation sector throughout the Project lifecycle to learn more about concerns and involve these sectors in relevant decision-making processes for onshore and offshore design elements.

Coastal Communities and Infrastructure

The Project is designed to minimize disruption to onshore communities and coastal private landowners with respect to its export cable route and POI. It also intends to make a conservation-scale impact through its environmental and fisheries monitoring and mitigation investments, which are discussed in Sections 14 and 15. The Project will use submarine cables to travel through the New York Harbor and up the East River directly to Ravenswood. The construction and operation of the Project will have negligible to no effect on the daily lives of coastal residents; however, it is acknowledged that these communities will still have interests in the Project, especially concerns related to visibility, fisheries, coastal resilience, and maritime traffic.



There are several locations where the Project may cross existing offshore infrastructure, such as buried cables and pipelines. Attentive Energy will coordinate with potentially affected entities to confirm best practices for crossing these facilities in a safe and efficient manner.



Additionally, research activities proposed within Attentive Energy's Fisheries Mitigation Plan will broadly assess impacts of Project activities to coastal communities and infrastructure.

Public Officials

Attentive Energy is committed to open communication with public officials and policy makers at the local, county, State, and Federal levels. Maintaining open dialogue with public officials will ensure they are equipped to respond to constituent questions and concerns, refer Attentive Energy to other interested stakeholders, and share district-specific feedback.

In addition to these briefings, Attentive Energy has testified at NYC Council oversight hearings, reinforcing support for the Climate Act and related topics such as air quality and economic development.

[Redacted content]

Federal, State, and City Government Organizations

Communication with public agencies has been a regular feature of Attentive Energy's outreach approach, which includes in-person meetings, phone and email correspondence, and regular Project updates. Attentive Energy will support any required agency processes for public involvement by committing to notification and outreach requirements (e.g., translations of public notices, engagement with Community Boards), educating the public on the regulatory processes applicable to the Project, and disseminating information about the Project and how to get involved. Government organizations will also play an important role in how Attentive Energy learns about and implements regulatory requirements, best practices, and relevant ordinances. Attentive Energy and its Sponsors will continue to consult with agencies on specific topics, as outlined in Table 16-3.

Emergency Responders

Attentive Energy has already engaged with emergency responders to provide important Project information and will continue to do so throughout the Project lifecycle. Emergency responders will continue to provide Attentive Energy with information related to emergency response planning and potential natural and environmental hazards to inform Project safety initiatives. In coordination with local officials and the USCG, Attentive Energy will develop an Emergency Response Plan that will be submitted to the Federal government as part of the overall permitting process. Attentive Energy will continue to keep emergency responders – including the NYC Police and Fire Departments, NYC Emergency Management, New York State Police, and the USCG – informed of Project updates during every stage of development.

New Jersey Stakeholders

A portion of the Project's export cable route travels through New Jersey State waters. Attentive Energy will engage relevant New Jersey stakeholders during Project development. Key New Jersey stakeholders include fisheries and maritime industry operators (for which engagement is guided by Attentive Energy's Fisheries Communication Plan and Fisheries Mitigation Plan), as well as the coastal tourism and recreation sector. While not New York-based, key New Jersey stakeholders will be interested in the Project and will be invited to provide input.

F.3 Stakeholder Engagement Goals

Attentive Energy's three core community engagement commitments – communicating frequently and proactively; understanding stakeholder interests and concerns; and developing actionable objectives – have informed the Project's stakeholder engagement objectives. These objectives are:

Knowledge Sharing

1. Effectively communicate the primary purpose and details of the Project and offshore wind to communities
2. Utilize media channels and create a newsletter to share Project updates with the general public
3. Foster community understanding of the Project by maintaining regular contact with stakeholders, community leaders, and the general public to strengthen existing relationships and build new ones that are similarly positive, transparent, accountable, and long-term
4. **Desired Outcome:** Foster community understanding of the Project by maintaining regular contact with stakeholders

Accountability and Value Alignment

- Empower members of Disadvantaged Communities and other stakeholders to provide input to the Project regarding their perspectives, concerns, and aspirations
- Publish a periodic tracker of how the Project aligns with goals outlined in the New York Climate Action Plan, particularly Just Transition principles (Table 2 of the Climate Action Plan)
- Share periodic Project updates with communities and the general public through a newsletter
- [REDACTED]
- **Desired Outcome:** Empower members of Disadvantaged Communities and other stakeholders to provide input and help shape the Project's community development approach, as well as to measure progress

Inclusive Decision-Making

- Convene a series of planning workshops with key stakeholders to capture their interests, priorities, and concerns
- Ensure that economic benefits from the Project accrue to impacted communities through local hires and local procurement
- **Desired Outcome:** Inform Project plans with input from stakeholders

Deliver Workforce Training and Jobs in Offshore Wind

- Inform the community about offshore wind opportunities and develop a local workforce that is empowered to take advantage of these opportunities
- Partner with organizations to fund educational programs and workforce development opportunities
- **Desired Outcome:** Create job opportunities associated with the Project, especially in Disadvantaged Communities, and train a local workforce capable of securing those opportunities

Offshore wind stakeholder groups maintain unique and shared interests and desired outcomes regarding the Project. Therefore, the above list of engagement objectives are predicated on priority issues identified by frontline communities, Disadvantaged Communities, fishing communities, and Just Transition and workforce stakeholders, which Attentive Energy has heard through years of engagement. Priority issues of Disadvantaged Communities, as identified to date, are provided in Section 18. The Stakeholder Engagement Plan objectives provide a means to measure engagement success, from both procedural and outcome perspectives. These objectives will continue to develop over time as more stakeholder engagement occurs.

F.4 Stakeholder Engagement Activities and Partnerships

Attentive Energy will meet all necessary stakeholder engagement reporting requirements and will inform NYSERDA of the outreach and engagement schedule of planned activities. To ensure that stakeholder groups and the public receive accurate and timely notice of engagements and Project development updates, Attentive Energy will also use several proven outreach methods to track outcomes. Attentive Energy has placed a strong focus on accountability and has already begun to record key engagements, memorializing meetings with detailed summaries and creating attendance lists and key follow-up items. Per its lease with BOEM, Attentive Energy is required to produce progress reports every six months during Project development. These must include detailed descriptions of stakeholder engagement and the critical issues discussed. Following an OREC award, Attentive Energy will submit these progress reports to NYSERDA once they are approved by BOEM.

Knowledge Sharing

Attentive Energy will continue to engage stakeholder groups on the Project and timeline, opportunities for public input, and key inflection points. Information about public meeting dates, locations, and details will be provided in a timely manner and meetings will be made accessible to diverse populations. Through these engagements, stakeholders in Disadvantaged Communities across the State will learn about both the Project and the offshore wind industry. These meetings will inform stakeholders about opportunities and resources available to them through the Project, such as MWBE/SDVOB procurement, workforce development, and continuing education.

Attentive Energy will issue regular press releases on Project milestones, invite media representatives to public information meetings, and share fact sheets and other materials to keep the media and the public informed. Attentive Energy will continue holding Project briefings with key stakeholder groups, such as environmental and advocacy organizations, fishery stakeholders, maritime stakeholders, steel industry representatives, unions, Tribal Nations, government agencies, public officials, and local leadership. General community meetings and presentations will target Disadvantaged Communities and will be provided to each frontline community and the ten distinct regions across the State.

Attentive Energy will consider using the following methods; engagement will be tailored to each unique stakeholder and dependent on Project phase and ongoing activities.

Outreach and Communications Methods:

- Social media postings
- Project website, which will include:
 - Outreach event calendar
 - Components of overall Project plan
 - Maps of the Lease Area
 - Public fact sheets, one-page Project descriptions, and other Project material
- Email distributions to existing email listservs
- Direct mail: Letters, postcards, and other printed communications
- Online comment portals and digital and print surveys
- Press releases in print (community newsletters and local newspapers) and broadcast media
- Physical fliers and canvassing
- Signage and billboards in the vicinity of the Project's impacted areas

Engagement Methods:

- Project briefings and coordination with key stakeholder groups
- General community meetings and presentations (either in person or virtual) with Attentive Energy as either a host or participant
- Port visits, port hours, and open houses
- Other public events

Metrics for Success

Quantitative:

- Number of social media posts and click-through rates, email distributions, and email open rates
- Number of canvassing events and their locations

- Records of press releases, public official and leadership communications, signage, and other outreach
- Event registration and attendance metrics

Qualitative:

- Feedback recorded via comment data, meeting notes, surveys, and/or recordings regarding how Attentive Energy is hearing and responding to concerns
- Feedback synthesis documents

Accountability and Value Alignment



Attentive Energy will consider using the following methods; engagement will be tailored to each unique stakeholder and dependent on Project phase and ongoing activities.

[REDACTED]

- 1:1 meetings with key stakeholders

Metrics for Success

Quantitative:

- Number of meetings and meeting attendance

Qualitative:

- Meeting minutes and regular reports detailing community insights regarding priorities, concerns, engagement processes, and accessibility needs

[REDACTED]

- Tracking the ongoing alignment between the Project activities and the Just Transition Principles as outlined in the New York Climate Action Plan

Timeline

- Ongoing throughout the Project lifecycle, beginning post-Project award

Inclusive Decision-Making

Identification of Priority Topics

Attentive Energy will convene a series of planning workshops with key stakeholders to capture their priorities and concerns about site plans. These key stakeholders include communities surrounding Ravenswood, DEIJ businesses, economic and workforce development organizations, community-based and environmental organizations, labor leaders and organizations, training and research institutions, public officials, Federal and State government agencies, coastal communities, commercial and recreational fishermen, and tourism operators. The findings from these planning workshops will inform final Project plans.

Attentive Energy will consider using the following methods; engagement will be tailored to each unique stakeholder and dependent on Project phase and ongoing activities.

- Public workshops, meetings, and forums
 - Presentations including a moderated Q+A and small group breakout sessions
 - Interactive activities for envisioning the Project and providing feedback
 - Virtual and in-person engagement opportunities

Metrics for Success

Quantitative:

- Number of workshops
- Event registration and attendance metrics

Qualitative:

- Feedback recorded via comment data, notes, and/or recordings from community meetings and presentations
- Feedback synthesis documents

Timeline

- Planning workshops will be carried out throughout the Design/Pre-Construction phase of the Project, between 2023 and 2026

Community Building, Benefits, and Equity

Attentive Energy is committed to supporting community organizations to foster economic empowerment and environmental justice. Building upon one-on-one engagements with community organizations during the proposal phase, Attentive Energy will coordinate and host meetings regarding community benefits and equity investments. In working with local public service organizations, such as housing, parks, and transportation groups, as well as scholarship funds for underserved youth, community centers, and environmental justice advocates, Attentive Energy aims to identify opportunities for maximizing the community benefits the

Project might deliver. The outcomes of this phase of engagement will be to refine equity investments, ranging from programmatic to infrastructure investments, established to date.

Attentive Energy will consider using the following methods; engagement will be tailored to each unique stakeholder and dependent on Project phase and ongoing activities.

- Community forums, meetings, and open houses (in person at Ravenswood and local community centers as well as virtual) to inform the development of community benefits
- Community surveying
 - Online and printed text question-based surveys available at pickup locations
 - Interactive online mapping
- Distribution database
 - Stakeholder database that will provide Project information, as well as opportunities to ask questions and share feedback

Metrics for Success

Quantitative:

- Number of forums, meetings, and open houses
- Survey metrics and number of responses
- Reporting on community investments
- Amount of community benefits delivered

Qualitative

- Lessons learned from pre-proposal investment prospects versus implementation

Timeline

- Ongoing throughout the Project lifecycle, beginning post-Project award

Deliver Workforce Training and Jobs in Offshore Wind

Attentive Energy is committed to sharing information with the public about the burgeoning local offshore wind economy. Attentive Energy will coordinate and host public meetings regarding offshore wind education, as well as connect communities to workforce training, talent recruitment, and business incubation opportunities, particularly through Attentive Energy's network of Just Transition and workforce development partnerships.

Attentive Energy's Just Transition and workforce development programs include certification, technical training, soft skill training, pre-apprenticeship, and non-degree, primary, secondary, and post-secondary education programs. This network will reduce barriers to entry into the offshore wind industry and build a sustained talent pipeline by providing skill-development to individuals of all education levels.

Further, Attentive Energy recognizes that while workforce development, organized labor, economic development, and Just Transition are intricately linked, professionals in each field have historically worked in silos. In order to activate the economic opportunities brought on by the rapid growth of offshore wind, it is critical for these often disparate stakeholder groups to engage in ongoing and real time collaboration.

Attentive Energy will consider using the following methods; engagement will be tailored to each unique stakeholder and dependent on Project phase and ongoing activities.

- Tabling and information kiosks in high-traffic areas in the community, outside of NYCHA developments, at public events, and at festivals
- Lunch and learn events

[REDACTED]

- Arts events and education opportunities
 - Engage community-based organizations to create public educational artwork about clean energy and a greener future
- Community events
- Offshore wind technical assistance
- Virtual, in-person, and phone engagements activities
- Supply chain initiatives including the Supplier Database and New York State Supplier Opportunity/Registry for MWBEs and SDVOBs
- Post offshore wind workforce development opportunities on job boards and coordinate advertisements with local community boards, community colleges, and economic development and workforce development entities
- Career fairs
- Internships

Metrics for Success

Quantitative:

- Number of events, registrants, and participants
- Number of connections or referrals made to Just Transition and workforce development partners
- Number of job postings and advertisements shared

[REDACTED]

Qualitative:

- Best practices for inclusive workforce development across Project development stages
- Innovation around projects and labor to share across the industry

Timeline

[REDACTED]

- Providing engagements at different times of day and different days of the week to accommodate those working nontraditional hours or have caretaking responsibilities.

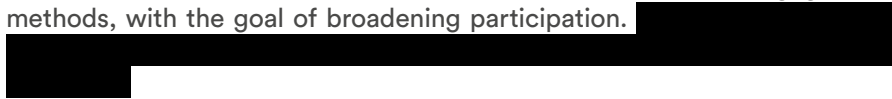


F.5 Tracking Progress and Communications

Attentive Energy will track and measure progress on the Stakeholder Engagement Plan objectives outlined in F.3 and will present this information to NYSERDA during regular reporting. In particular, the quantitative and qualitative data outlined in F.4 will be measured. Feedback received throughout the outreach and engagement process will be incorporated into communications with various stakeholder groups and will help improve the success of these efforts. Attentive Energy will continue to evaluate the success, accessibility, and turnout of engagements and update this process throughout the Project.

Stakeholder Representation and Tracking

Attentive Energy will query participants in engagement activities to better understand their needs and to inform revisions to future engagement methods, with the goal of broadening participation.



Attentive Energy may collect the following information from stakeholders through various channels, such as an online comment portal, surveys, and event registration pages:

- Age groups
- Cellular, WiFi, and broadband Internet access
- Employment status and industry
- Essential workers/workers with nonstandard hours

- Gender
- Homeownership
- Income level
- Language needs
- NYCHA residents
- Disabilities
- Parents and caretakers
- Race and ethnicity

All information will be collected voluntarily and anonymously and in accordance with applicable data privacy standards.

Attentive Energy has used extensive consultations across stakeholders to build a detailed portfolio of contractually mature economic development initiatives. This unique long-term effort enables the Project to pledge \$78 million in targeted community investments, \$30 million to protect and restore New York State’s biodiversity and fisheries, and an additional \$192 million to advance an equitable offshore wind industry.

Attachments, including Letters of Support

Attentive Energy’s broad coalition of stakeholders has provided Letters of Support for the Project, which are included Attachment 16-C.

The confidential version of the SEP Standardized Component is provided as Attachment 16-D. The public version of the SEP Standardized Component is provided as Attachment 16-E.

References

NYCHA Development Data Book: <https://www1.nyc.gov/assets/nycha/downloads/pdf/pdb2020.pdf> (Retrieved on 01/11/2023)

<https://attentiveenergy.com/suny-maritime-students/> (Retrieved on 01/11/2023)

https://attentiveenergy.com/wp-content/uploads/2022/08/ATT-FSH-COM-PLN-ATT-000001_2_IFU_20220823_Attentive-Energy-Fisheries-Communication-Plan.pdf (Retrieved on 01/11/2023)

<https://attentiveenergy.com/suny-maritime-students/> (Retrieved on 01/21/2023)



SECTION 17

VISIBILITY AND VIEWSHED IMPACTS



Section 17 Table of Acronyms

ADLS	Aircraft Detection Lighting System
BOEM	Bureau of Ocean Energy Management
CAD	Computer-Aided Design
FAA	Federal Aviation Administration
ft	Feet
GIS	Geographic Information System
km	Kilometer
KOP	Key Observation Point
Lease Area	Lease Area OCS-A 0538
m	Meters
mi	Miles
OSS	Offshore Substation
WTG	Wind Turbine Generator

17. VISIBILITY AND VIEWSHED IMPACTS

Visibility from Shore

Attentive Energy One will have very limited visibility due to its distance from the shoreline.

Attentive Energy has had extensive engagement with coastal communities well before securing the OCS-A 0538 Lease Area (Lease Area) and understands the importance of coastal viewsheds to these communities. BOEM also followed a multi-year engagement effort with coastal communities in a process to establish the New York Bight lease areas, resulting in a final siting of lease areas that minimizes these impacts. As described herein, the Project design results in minimal impacts to viewsheds from even the closest points to shore.

The Lease Area is approximately 54 statute miles¹ from its nearest shoreline point in New York and approximately 42 mi from its nearest shoreline point in New Jersey. This is approximately 34 mi beyond OCS-A 0512 (Empire Wind 1 and 2) and OCS-A 0544 (Mid-Atlantic Offshore Wind LLC) from the same vantage point (Figure 17-1).

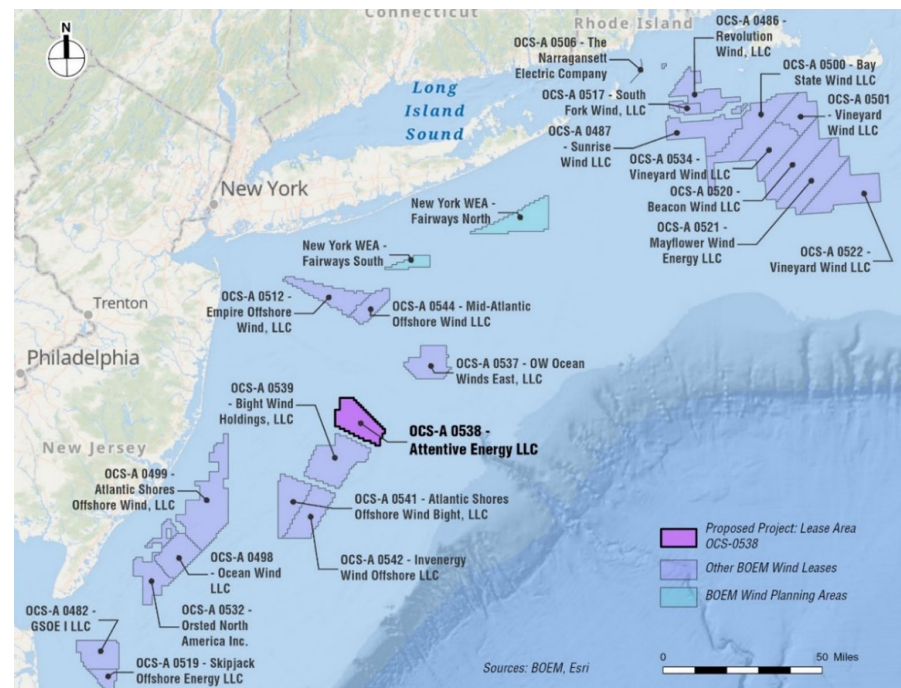
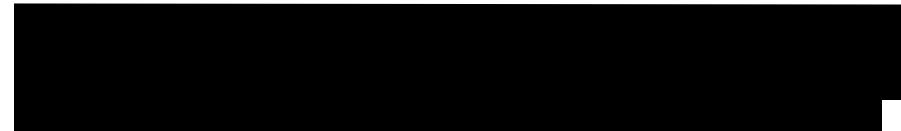


Figure 17-1 Project Lease Area in Context of other BOEM Lease Areas in the Region

¹ For the purposes of this Section, all distances are reported in statute miles.



The Project will have negligible to no visual impact even on the clearest of days with calm seas and worst-case lighting conditions. Each structure would be appropriately light-colored, to further mitigate any possible visibility from shore in specific circumstances.

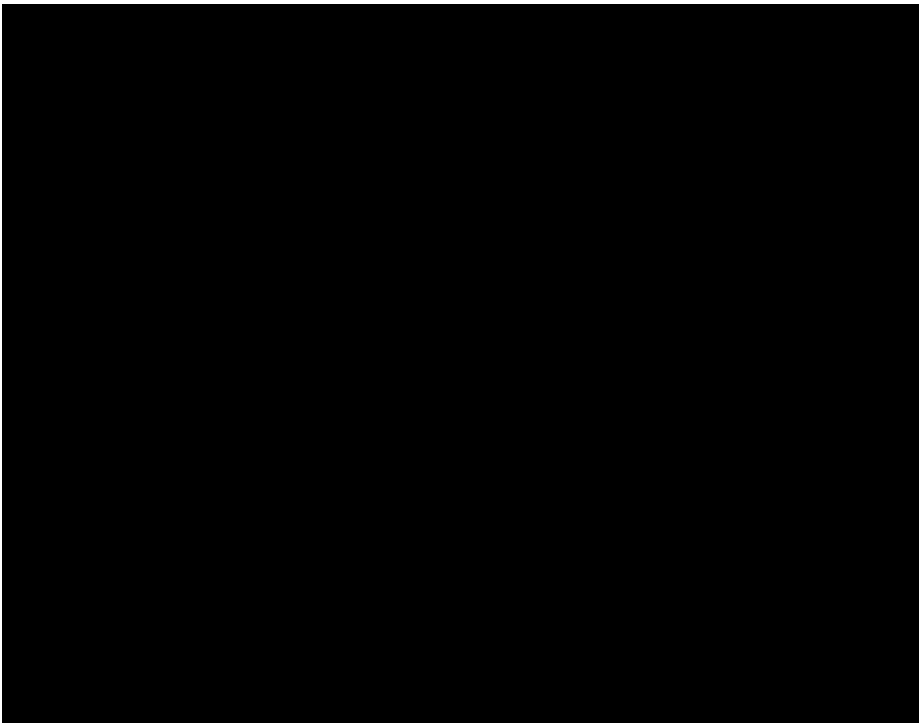
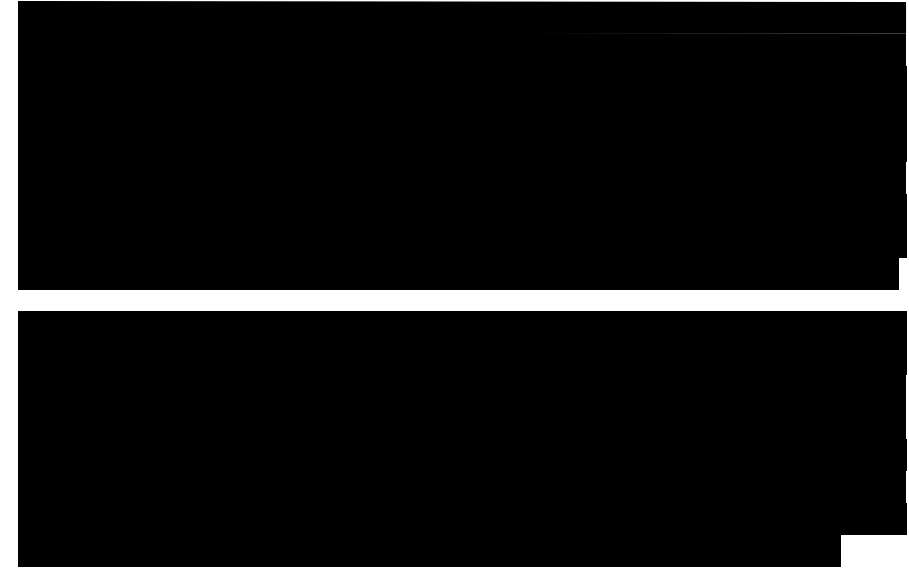


Figure 17-2 Selected KOPs for the Study



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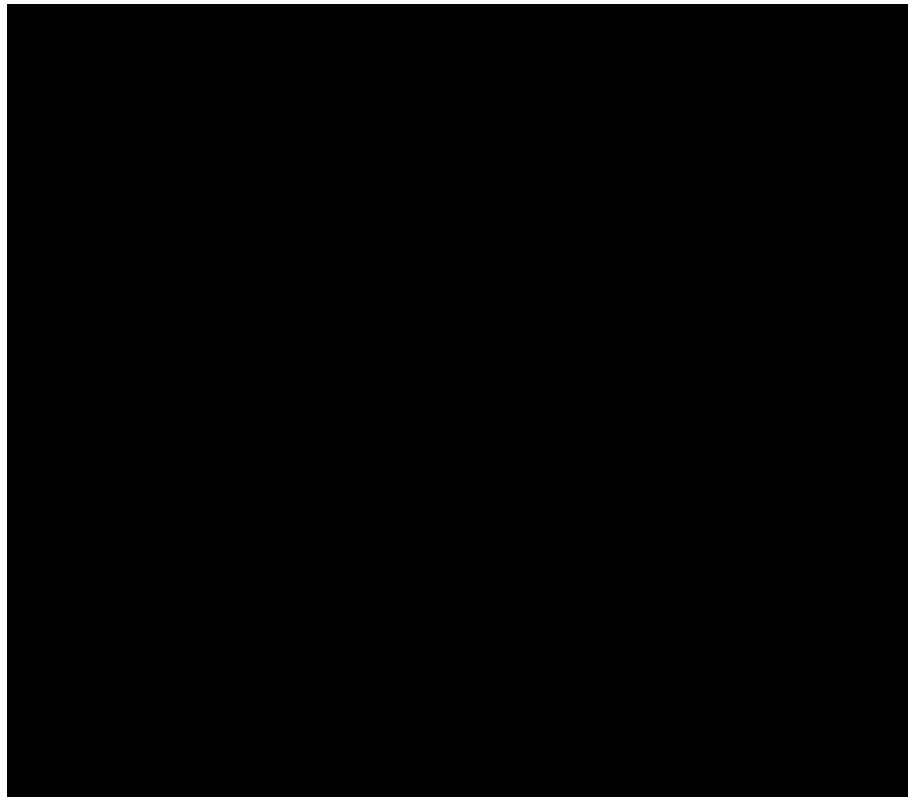
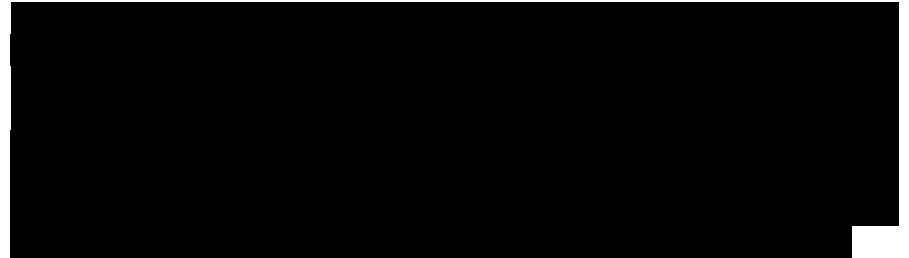
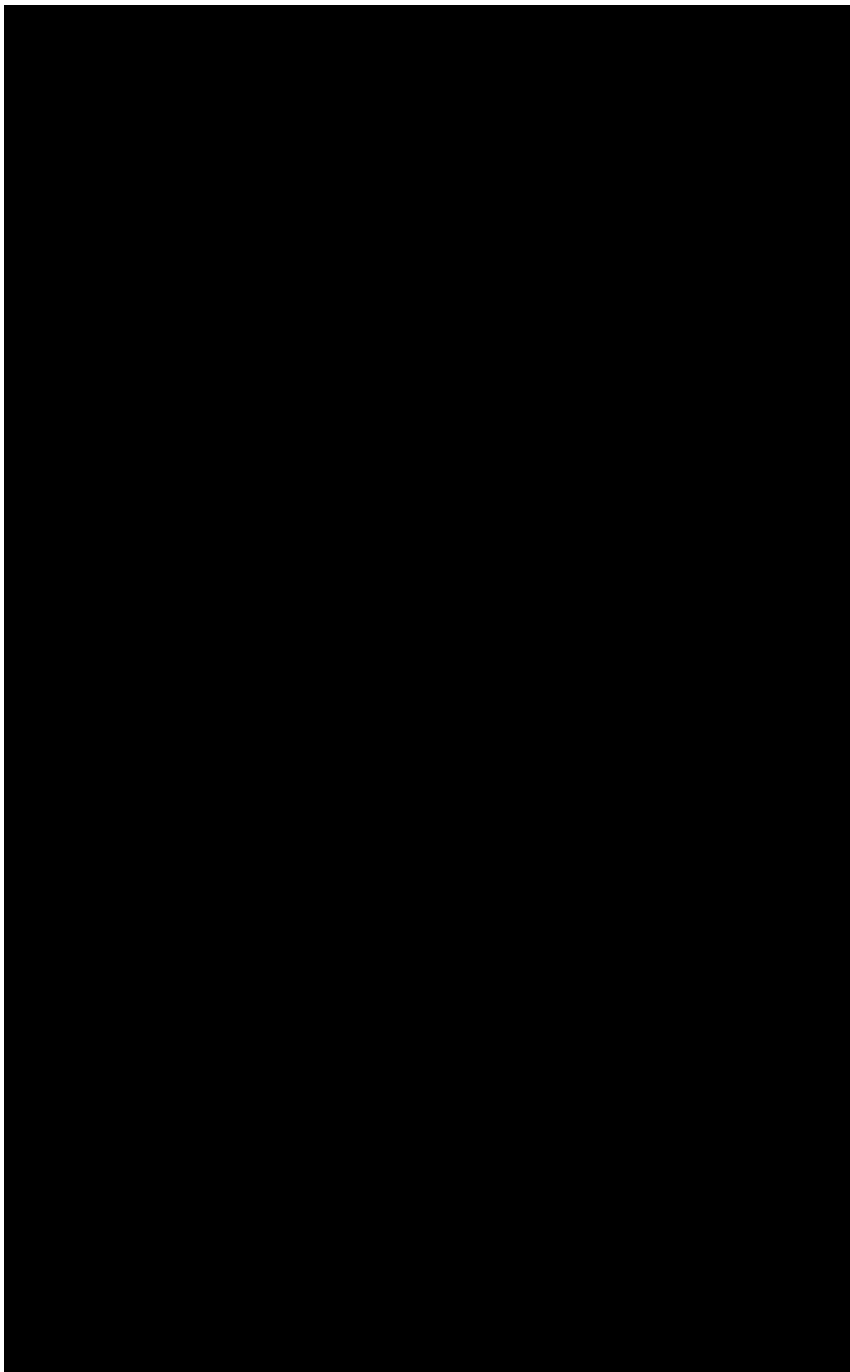
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Fire Island lighthouse

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References



SECTION 18

DISADVANTAGED COMMUNITY IMPACTS



Section 18 Table of Acronyms

ACENY	Alliance for Clean Energy New York
[REDACTED]	[REDACTED]
CBO	Community-Based Organization
CDFI	Community Development Financial Institution
CESA	Clean Energy States Alliance
CJWG	Climate Justice Working Group
CUNY	City University of New York
DBE	Disadvantaged Business Enterprise
DE&I	Diversity, Equity, and Inclusion
DEIJ	Diversity, Equity, Inclusion, and Justice
[REDACTED]	[REDACTED]
DOBE	Disability-Owned Business Enterprises
EJ	Environmental Justice
GWO	Global Wind Organization
HVDC	High Voltage Direct Current
Lease Area	Lease Area OCS-A 0538
LEED	Leadership in Energy and Environmental Design
LGBTBE	Lesbian, Gay, Bisexual, and Transgender-Owned Business Enterprises
LGBTQ	Lesbian, Gay, Bisexual, Transgender, and Queer
MERC	Maritime Education, Recreation & Cultural
MWBE	Minority and Women Owned Business Enterprises
NAACP	National Association for the Advancement of Colored People

[REDACTED]	[REDACTED]
NYCHA	New York City Housing Authority
SDVOB	Service-Disabled Veteran Owned Business
STEM	Science, Technology, Engineering, and Math
Tribes	Tribes, Tribal Nations, and Tribal Organizations

18. DISADVANTAGED COMMUNITY IMPACTS

Attentive Energy believes Disadvantaged Communities, which have historically borne the burdens of the fossil fuel economy, should be first in line to reap the benefits of the renewable energy transition, including economic opportunities and quality of life improvements stemming from offshore wind development. The Project is the nation's first renewable repowering of an active fossil-fuel plant with offshore wind, delivering a historic victory for Disadvantaged Communities by catalyzing the conversion of legacy fossil fuel generation into a clean energy hub in a dense urban community.

The Project will deliver a precedent-setting economic benefits package, that when coupled with the reduction of environmental burdens, will directly support New York's Climate Act goals. Attentive Energy's Lasting Legacy investment program includes a total of \$300 million in direct community, environmental, and fisheries investment. The plan includes an \$192 million fund to unlock investments throughout the State to advance an equitable offshore wind industry, in addition to \$78 million in targeted community investments that prioritize Disadvantaged Communities and an unprecedented \$30 million to protect and restore New York State biodiversity. The specialized training support and local investments from the Lasting Legacy program will create up to 189 new jobs and \$201 million in economic output for Disadvantaged Communities.¹ Attentive Energy's Community Commitment investment program likewise includes \$78 million in targeted community investments that prioritize Disadvantaged Communities throughout the state, in addition to the aforementioned \$30 million to protect and restore New York State biodiversity.

The effects of climate change are observable across New York State with rising temperatures and sea levels, increased coastal and inland flooding, biodiversity loss, and extreme weather impacting health, local economies, agriculture, and quality of life. However, the negative impacts of climate change do not impact all communities equally. The New York State Disadvantaged Communities Barriers and Opportunities Report (2021) links climate change vulnerability to disparities in economic opportunity, housing, health status, education, mobility, access to quality health care, and socio-demographic factors. Communities where these disparities are more concentrated are identified

as Disadvantaged Communities. Fortunately, the Climate Act requires that these communities receive at least 35% of the economic benefits of Project spending. Attentive Energy applauds NYSERDA's ORECRFP22-1 requirement to detail the benefits and burdens associated with the Project's impact on hosting and proximate Disadvantaged Communities, as this is core to Attentive Energy's efforts in the region, both before and since obtaining the Lease Area in the New York Bight.

The Project's precedent-setting Fossil Repurposing Proposal to retire one of the 400 MW Ravenswood steam turbines and replace it with offshore wind will benefit nearby Disadvantaged Communities (especially nearby NYCHA campuses). Specifically, the Project will decrease CO₂, NO_x, and SO_x emissions by 480,300 metric tonnes per year in New York City, where approximately 60% of the population lives in a Disadvantaged Community under the Climate Justice Work Group criteria and 16% under the interim NYSERDA criteria. The identifiable decreases in air pollutants from the Project will lead to the avoidance of approximately 800 cases of asthma exacerbation within New York City. The Project's siting of all onshore interconnection infrastructure at Ravenswood minimizes disruption to frontline and Disadvantaged Communities, with only minor impacts expected during the construction period and minimal impacts expected once the Project is placed in service.

More broadly, the Disadvantaged Communities targeted by the Project's community investment program will receive funding and workforce development opportunities.

Disadvantaged Communities Impacted by the Project

The Project's Fossil Repurposing Proposal and interconnection at Ravenswood is designed to avoid negative impacts to, and target benefits towards Disadvantaged Communities. Attentive Energy expects only minor noise impact during construction in the immediate vicinity of Ravenswood.

¹ Numerical values for economic benefits reporting are listed on a nominal basis, as discussed more in Section 19.

Using NYSERDA's Disadvantaged Communities map, Attentive Energy developed an economic benefits plan that will positively impact Disadvantaged Communities throughout New York State. Not only will these communities benefit from Project activities, but as mentioned in Section 16, Attentive Energy will position community members to offer their specialized knowledge and expertise to inform the execution of workforce training, economic development programming, as well as quality of life initiatives.

The Project will, however, have extensive positive impacts: all New York residents will receive economic and quality of life benefits from the Project, particularly Disadvantaged Communities who will receive targeted engagement, outreach, and investment as the Project's focus communities.

Disadvantaged Communities Draft Map and Indicators

The Climate Justice Working Group was charged by the Climate Act to develop the criteria to identify Disadvantaged Communities across New York State. The Climate Justice Working Group developed draft criteria that will ensure that 35% of the State's census tracts would be identified as Disadvantaged Communities for targeted investment. In an effort to most accurately describe impacts to Disadvantaged Communities, Attentive Energy will reference both the draft criteria proposed by the Climate Justice Working Group, along with the interim criteria proposed by NYSERDA. As such, Attentive Energy will use, as a baseline, the following criteria to identify individuals from Disadvantaged Communities:

- Individuals residing in locations that meet both of the following criteria:
 - Census blocks in the top quartile of census block groups in New York, ranked by the percentage of Low- to Moderate-Income Households in each census block. (Low- to Moderate-Income Households are defined as households with annual incomes at or

below 50% of the Area Median Income of the County or Metro area where the Census Block Group resides.)

- Locations identified as a Potential Environmental Justice Area, as defined by the New York State Department of Environmental Conservation; or
- Individuals residing in one of 514 census tracts in New York State that are designated as Opportunity Zones. The federal Opportunity Zone community development program is offered through the Tax Cuts and Job Acts of 2017.

The Draft New York State Disadvantaged Communities Map (Figure 18-1) incorporates all of the possible indicators that determine if a census block meets the criteria described above; those that meet the draft criteria are considered Disadvantaged Communities and shaded purple.² When a purple census tract is selected, the interactive map separates the indicators into two categories (Population Characteristics and Vulnerability, and Environmental Burden and Climate Change Risk) and then further separates each category into individual indicators that compare the census tract to State averages. The higher the percentage in the census tract, the greater that factor's burden is on the community. Attentive Energy will continue to monitor and use data in the draft map until New York's final Disadvantaged Community criteria are released, tentatively scheduled for April 1, 2023. See Table 18-1 for a full list of indicators cataloged in the draft map.



NYCHA Food Insecurity Event 2022

² This Section summarizes data taken from the [Climate Justice Working Group Disadvantaged Communities Map](#) located within the New York State Government website and cited on the NYSERDA website. Per the ORECRFP22-1 Q&A, benefits to Disadvantaged Communities will ultimately be assessed with respect to both the interim draft and final Disadvantaged Communities criteria.

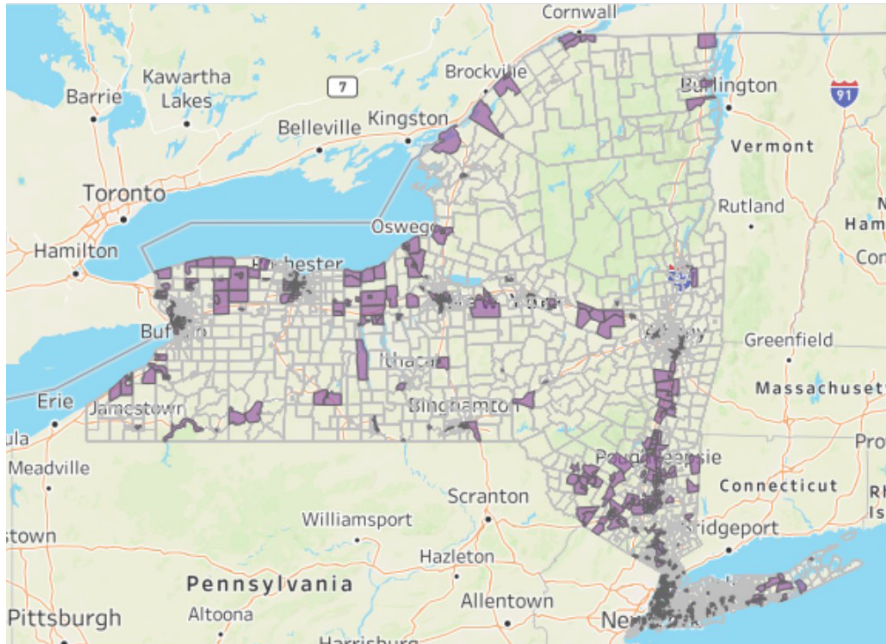


Figure 18-1 Draft New York State Disadvantaged Communities Map

The seven major indicator groups that affect Disadvantaged Communities, as detailed in Table 18-1, do not apply to all proximate offshore wind communities, nor will all apply to the Disadvantaged Communities impacted by the Project. To the fullest extent possible, community investments will target the three main categories of indicators:

- **Socio-economic vulnerabilities** (e.g., area median income, poverty rate, unemployment rate, and race): caused by a lack of resources and opportunities that dramatically impact the economic well-being of Disadvantaged Communities.
- **Health and air quality burdens** (e.g., asthma-related emergency room visits, fine particulate matter, and Benzene emissions): environmental burdens that impact quality of life and yield households with disproportionately high healthcare needs.
- **Environmental risks** (e.g., ratio of vegetative cover to land area, flood risk, and traffic density): detrimental impacts on the lives of people who live in Disadvantaged Communities - particularly those who live close to trucking hubs, peaker plants, and other fossil fuel generation infrastructure.

Table 18-1 Major Data Indicators from Draft Disadvantaged Communities Map

Population Characteristics and Vulnerability	Environmental Burden and Climate Change Risk
Health Impacts and Burdens Asthma ED Visits, COPD ED Visits, Heart Attack (MI) Hospitalization, Low Birthweight, % Adults Age 65+, % w/ Disabilities, % w/o Health Insurance, Premature Deaths	Land Use and Historic Discrimination Active Landfills, Housing Vacancy Rate, Industrial/Manufacturing/Mining Land Use, Major Oil Storage Facilities, Municipal Waste Combustors, Power Generation Facilities, Regulated Management Plan (Chemical) Sites, Remediation Sites, Scrap Metal Processing
Housing, Mobility, Communications Energy Poverty/Cost Burden, Homes Built Before 1960, Housing Cost Burden (Rental Costs), Manufactured Homes, % Renter-Occupied Homes, % w/o Internet (home or cellular)	Potential Climate Change Risk Agricultural Land Use, Coastal Flooding and Storm Risk Areas, Driving Time to Urgent/Critical Care, Extreme Heat Projections (>90-degree days in 2050), Inland Flooding Risk Areas, Low Vegetative Land Cover
Income % <100% of Federal Poverty Rate, % <80% Area Median Income, % Single-Parent Households, % w/o Bachelor's Degree, Unemployment Rate	Potential Pollution Exposure Benzene Concentration (Modeled), Particulate Matter (PM2.5), Traffic: Diesel Trucks, Traffic: Number of Vehicles, Wastewater Discharge
Race / Ethnicity Historical Redlining Score, Limited English Proficiency, % Asian, % Black or African American, % Latino/a or Hispanic, % Native American or Indigenous	

Project Location and Communities Overview

The Project is comprised of an Offshore Wind Generation Facility, located in the Lease Area approximately 54 miles south of Jones Beach, and a Meshed Ready HVDC Transmission Facility that will originate in the Lease Area and terminate at Ravenswood in Long Island City, Queens. Most of the Project construction will take place in Federal waters and the Downstate Region of New York, predominately along the NYC waterfront and off the coast of Long Island.

In addition to the communities around the Project, other communities across New York State will support the State's new offshore wind supply chain and build its workforce. Though not all identified communities are located near the Lease Area or Ravenswood, many may be impacted during the planning, manufacturing, assembling, operations and maintenance, and decommissioning phases of the Project, and are therefore considered proximate Disadvantaged Communities. Other Disadvantaged Communities across the State are poised to support the regional supply chain or provide talent to power the industry. In all, Attentive Energy identified approximately 300 census blocks identified by New York State as Disadvantaged Communities that are nearby Project components and may benefit from the Project.

Attentive Energy understands that each Disadvantaged Community intersecting with the Project has a unique history and distinct set of environmental and economic development challenges.

The following Subsections highlight the historic socio-economic, health and air quality, and environmental risks that Disadvantaged Communities currently endure and how the Project will mitigate them.

Frontline Communities in NYC

Attentive Energy is committed to prioritizing frontline communities in NYC, which are in close proximity to fossil fuel power plants or face historic environmental justice challenges. The frontline communities that the Project identified for targeted outreach are a subset of Disadvantaged Communities and host peaker plants and other legacy power generation infrastructure that produce emissions and negatively affect air quality.

[Redacted text block]

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Hosting Frontline Community: Western Queens/Ravenswood

With a population of 156,981 (ACS 2021), approximately 14% of residents of Queens Community District 1 residents live below the Federal Poverty Line, a proportion higher than the borough's overall poverty rate. In the Queensbridge-Ravenswood-Dutch Kills Neighborhood Tabulation Area adjoining the Ravenswood facility, 31.1% of the population identifies as Hispanic/Latino, 19.8% as Black/African-American non-Hispanic, 23.2% as White non-Hispanic, and 20.6% as Asian non-Hispanic. In Queens Community District 1, which encompasses Queensbridge and Ravenswood, the annual average in 2021 for fine particulate matter (PM2.5) was 7.2 mean mcg/m³, higher than the NYC average of 6.5 mcg/m³ and the New York State average of 6 mcg/m³. The Community District suffers from an elevated rate of asthma emergency department visits among children ages 5 to 17 years. In 2018, this rate was 125.24 per 10,000, higher than the borough average of 113.2 per 10,000 and the New York State average of 99.9 per 10,000. Air quality challenges are compounded by a lack of parkland, which constitutes only 3% of the neighborhood's land area, compared to the NYC average of 23% in 2021.

In 2022, Rise launched an innovative vision for transforming Ravenswood into a renewable energy hub. The Project will initiate that transformation and deliver a historic environmental justice victory to frontline communities in NYC by retiring one of the 400 MW Ravenswood steam turbines and replacing its power output with offshore wind energy produced by the Project. Additional initiatives that directly impact Disadvantaged Communities in NYC and throughout New York State will supplement the improved local environmental conditions due to the clean energy transition. Community members will also be provided the opportunity to receive specialized workforce training and support to enter the offshore wind industry.

The Project will initiate the transformation of Ravenswood and deliver a historic environmental justice victory to frontline communities in NYC by retiring one of the 400 MW Ravenswood steam turbines and replacing its power output with offshore wind energy produced by the Project.

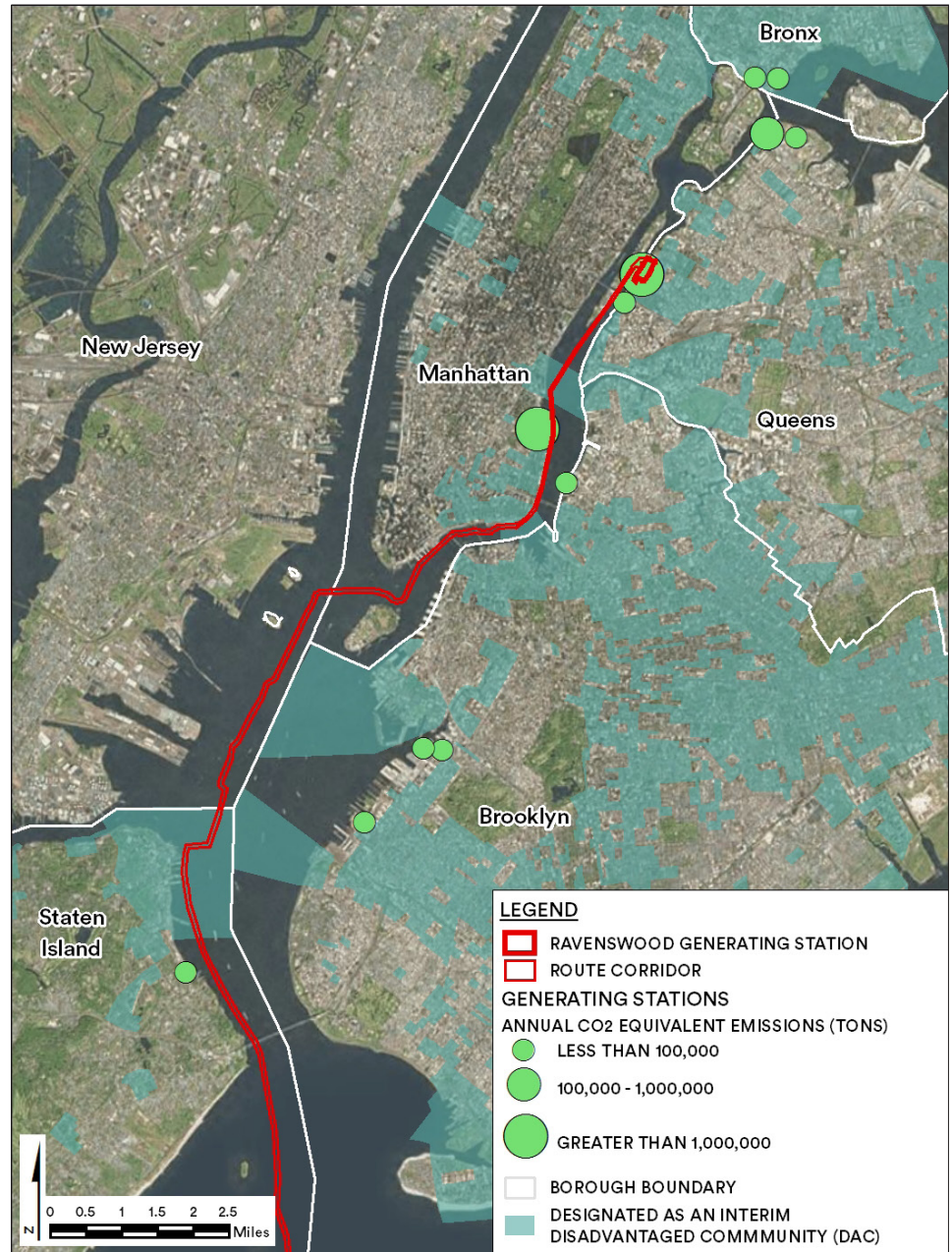
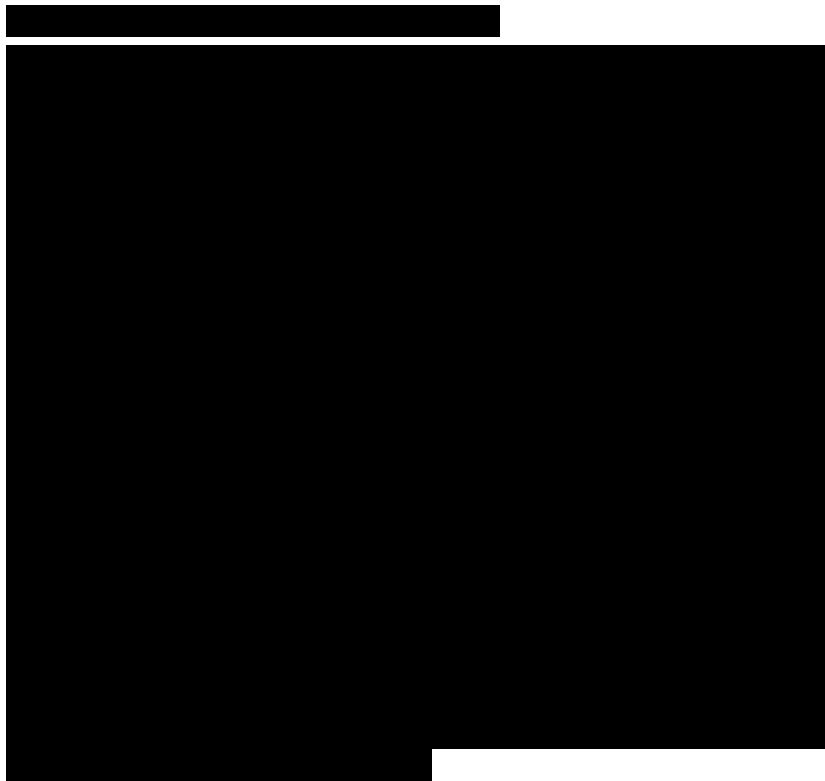


Figure 18-2 Disadvantaged Communities in New York City, shown with Fossil Fuel Generation Sites and Proposed Project Location

The Project's Fossil Repurposing Proposal will address decades of community concerns related to the health and quality of life impacts that living in 'Asthma Alley' in Western Queens has on residents.

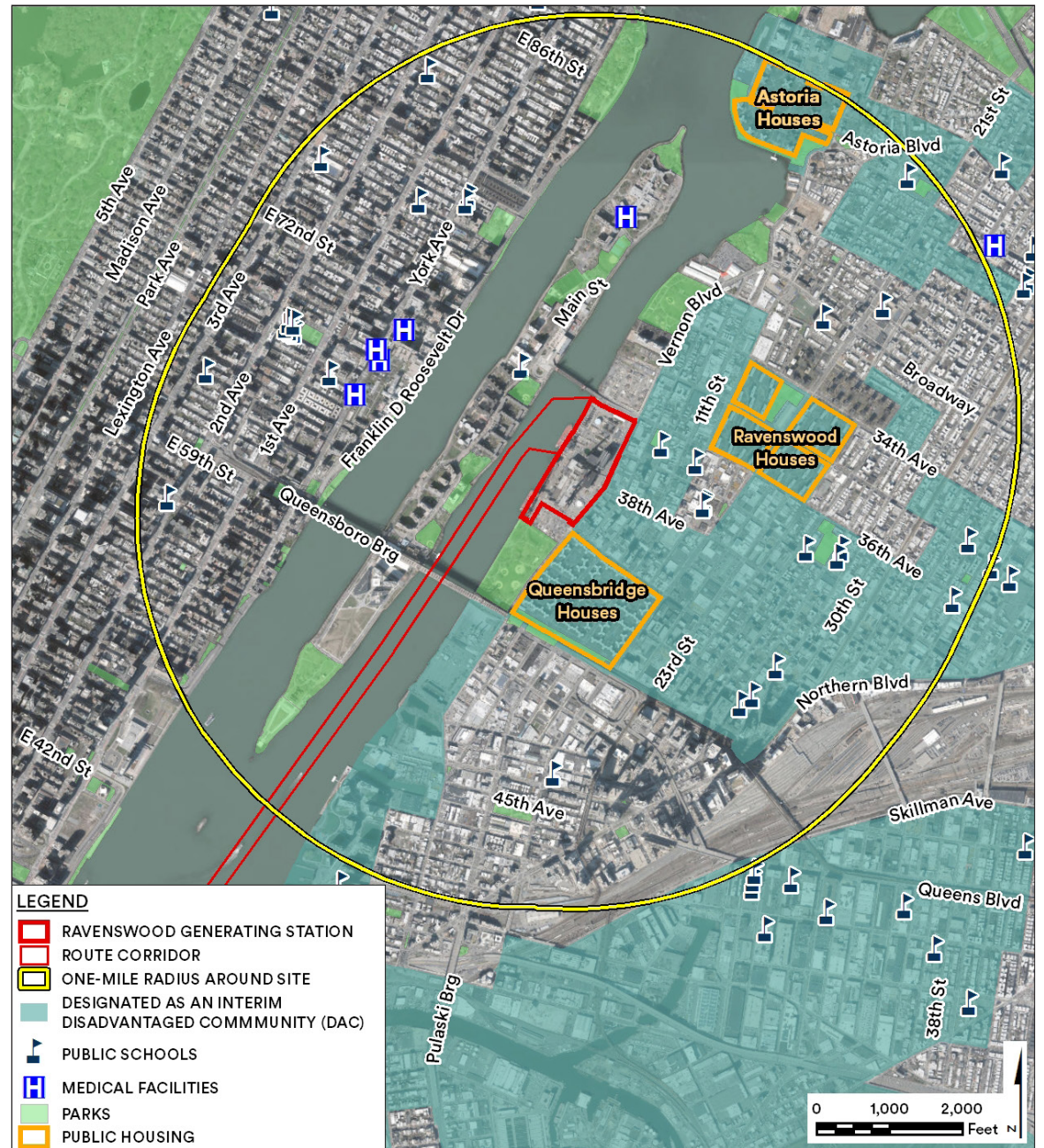


Figure 18-3 Disadvantaged Communities near Ravenswood and Sensitive Receptors

Disadvantaged Communities in Long Island and Upstate New York

The Disadvantaged Communities in Long Island and the eight Upstate regions account for 41% of Disadvantaged Communities-designated tracts in New York State. Many of these Disadvantaged Communities are in rural or suburban communities, with vastly different demographics, health vulnerabilities, and environmental and climate change burdens as compared to those that impact frontline communities in NYC. As such, engagement and investment in these communities will be different, but still focused on addressing longstanding environmental and economic inequities.

Local manufacturing and construction trades groups in these communities will support the workforce and supply chain needs for the Project. One of the challenges in developing an offshore wind supply chain for New York State is that each region operates separately without a unified goal. Attentive Energy's engagement with workforce and economic development partners will align key stakeholders in those regions with clear objectives and collaborative initiatives that can be implemented according to the needs of each region.

Long Island

[Redacted]

Mid-Hudson Valley

[Redacted]

[Redacted]

[Redacted]

Capital Region

[Redacted]

The Capital Region's Albany County is a critical supply chain and manufacturing hub in New York's pursuit of its goal to develop 9,000 MW of offshore wind energy by 2035. Environmental and socioeconomic data from Albany County indicate elevated environmental burdens and population vulnerability. From 2018-2020, the fine particulate matter (PM2.5) annual average for Albany County was 7.4 mcg/m³, compared to a New York State average of 6.5mcg/m³. Fine particulate matter is an important risk factor for asthma, and the Albany County age-adjusted asthma emergency department visit rate was 79.1 per 10,000 population in 2018, compared to 64.3 per 10,000 population for New York State, excluding NYC. Albany County had the highest incidence rate of elevated blood lead levels in the Capital Region from 2016-2018, at 11.7 per 1,000 tested children, compared to the New York State average for the same time period 6.5 per 1,000 tested children, excluding NYC.

In addition to a heightened environmental burden, Albany County faces a challenging economic outlook. Albany County's poverty rate of 11.9% is higher than the 11.1% poverty rate for New York State, excluding NYC.

From 2016-2020, Albany County's median household income was \$68,327, compared to the New York State average median household income of \$71,117.

[Redacted]

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[Redacted]

Indigenous Nations

There are eight Federal and State recognized sovereign Indigenous Nations in the land area that is now New York State, but there are many more Indigenous peoples who lived in the area for at least 13,000 years. NYC also has one of the largest and most diverse populations of Indigenous peoples in the U.S., and other cities throughout New York State have urban Indigenous populations. For the purpose of the Disadvantaged Communities criteria, the Climate Justice Working Group identified specific communities as Indigenous Communities based on census tracts where greater than or equal to 5% of land is owned by an Indigenous Nation or recognized as Reservation Territory. Indigenous Nations near offshore wind projects have unique interests and concerns and play a vital role in offshore wind development, separate from other Disadvantaged Communities. Indigenous Nations established communities in the Project Area millennia before European contact and have a history of reliance on and interaction with coastal and marine environments. It is therefore important that all Native American peoples with historical and cultural ties to the Project Area have an opportunity to share their perspectives, opinions, concerns, and recommendations during Project development. As such, through the support of its Tribal Liaison, Attentive Energy identified both Federal and State recognized Tribes, with historical and cultural ties to, or interest in, the Project Area for Project engagement activities. There are twelve Federally recognized and four State recognized Tribes that were and will continue to be engaged by the Project (Table 18-2).

Anticipated Project Impacts to Disadvantaged Communities

The Project's POI at Ravenswood and Fossil Repurposing Proposal is designed to minimize impacts to Disadvantaged Communities and frontline communities. Attentive Energy expects only limited construction-related impacts from the Project and will closely adhere to all State and local requirements regarding traffic, noise, and dust mitigation. Communities with the potential to be directly impacted from the construction activities include:

[REDACTED]

[REDACTED]

Table 18-2 Federal and State Recognized Tribes Engaged for the Project

Federally Recognized Tribes/Tribal Nations	
Absentee-Shawnee Tribe of Indians of Oklahoma	Shawnee Tribe
Delaware Tribe of Indians	Stockbridge-Munsee Community Band of Mohican Indians
Eastern Shawnee Tribe of Oklahoma	The Delaware Nation
Mashantucket Pequot Tribal Nation	The Narragansett Indian Tribe
Mashpee Wampanoag Tribe	The Shinnecock Indian Nation
Mohegan Tribe of Connecticut	Wampanoag Tribe of Gay Head (Aquinnah)
State Recognized Tribes/Tribal Organizations	
Nanticoke Lenni-Lenape Tribal Nation	The Powhatan Renape Nation
Ramapough Lenape Nation	Unkechaug Nation

[REDACTED]

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Attentive Energy anticipates Disadvantaged Communities will experience overall positive impacts as a result of three categories of benefits:

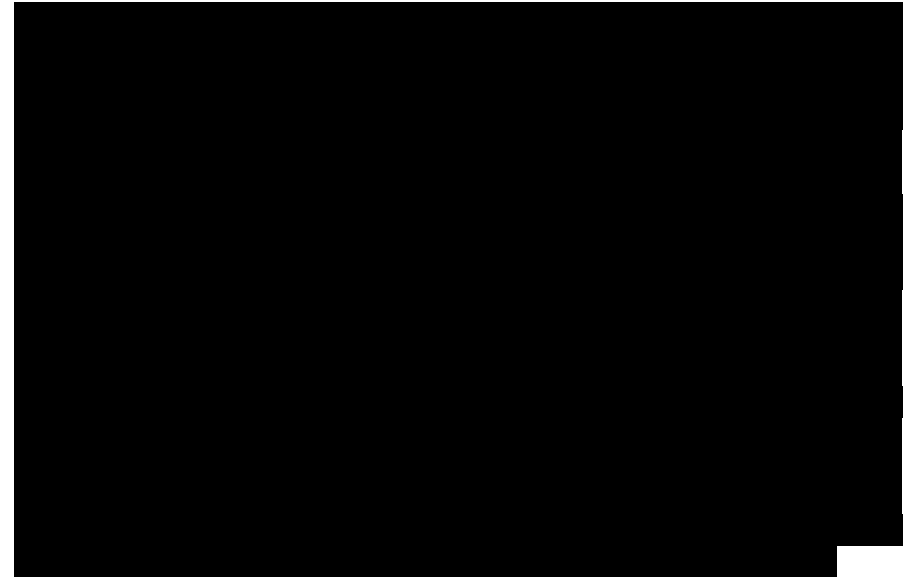
- Project-Specific Expenditures, Community Focused Investments, and Climate, Public Health, and Other Intrinsic Benefits. Project-Specific Expenditures include expenditures associated with the construction, operation, and maintenance of the Project.
- Community Focused Investments include economic development activities, approaches to improve access to clean energy solutions, and opportunities to address existing environmental justice issues.
- Climate, Public Health, and Other Intrinsic Benefits include benefits beyond those previously mentioned and that have intrinsic benefits to Disadvantaged Communities resulting from reduced fossil fuel generation. Further information is provided in the Disadvantaged Community Benefits Subsection.

Engagement with Disadvantaged Communities to Date

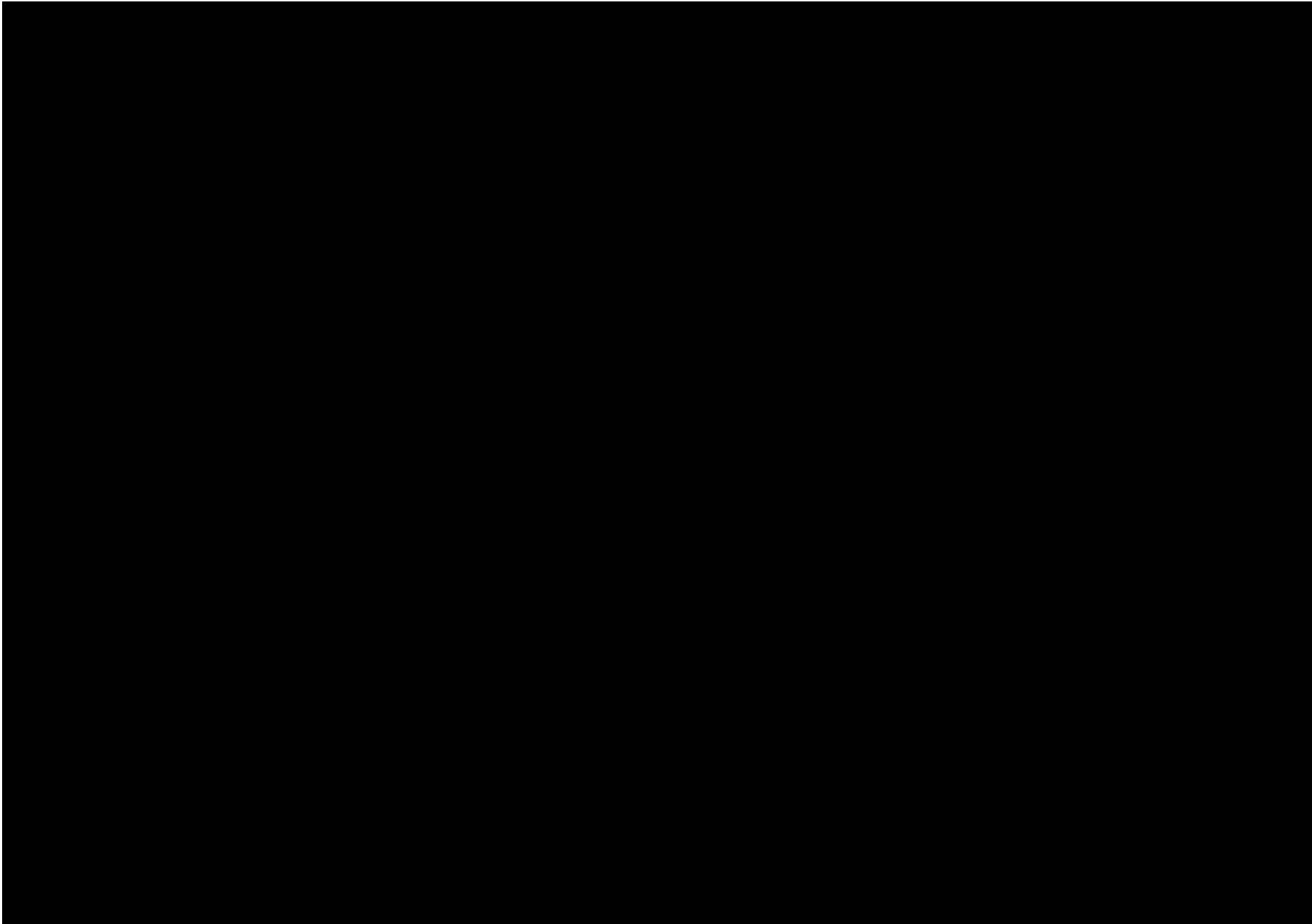
Attentive Energy is committed to advancing the interests of Disadvantaged Communities during the State's historic transition to carbon-free sources of energy. Intensive stakeholder engagement is essential to the Project's success, as community needs, priorities, and aspirations help direct goals and overall outcomes. To ensure that Disadvantaged Communities' interests inform the Project's overall strategic plan and timeline for development, Attentive Energy has and will continue to proactively engage stakeholders. Stakeholder engagement is guided by the following goals from the Stakeholder Engagement Plan:

- **Knowledge Sharing**
- **Accountability and Value Alignment**
- **Inclusive Decision-Making**
- **Deliver Workforce Training and Jobs in Offshore Wind**

Information on how these goals will be operationalized is provided in Section 16.



New mural unveiled at Ravenswood highlights community aspirations for a sustainable future





Attentive Energy at Governor's Island Supporting Billion Oyster Project



Frontline Community Engagement

Through Rise, Attentive Energy maintains close relationships with the four NYCHA campuses that are within close proximity to Ravenswood, recognizing the historic burden that fossil fuel energy infrastructure placed on this community. These four NYCHA developments - Queensbridge, Ravenswood, Astoria, and Woodside Houses – together house over 15,800 residents. Prior corporate social responsibility initiatives include nearly two dozen community sponsorship programs, including scholarships and college savings accounts, youth mentorship and senior services, and environmental justice-focused workforce development, primarily designed for the nearby NYCHA public housing developments. As a result of these programs and initiatives, Attentive Energy has frequent dialogue with local community leaders and members.

Members of the Attentive Energy team also met with NYC-specific stakeholders interested in the Project to better understand the local needs of frontline communities, including: public officials whose districts encompass the Project areas; Federal, State, and local agencies; community and civic organizations; environmental and environmental justice organizations; research, planning, and economic development organizations; educational institutions; labor and workforce groups; and, maritime users. Attentive Energy will continue to engage these stakeholders throughout the Project lifecycle to ensure the Project is responsive to their interests and concerns.

Long Island and Upstate Engagement

[Redacted]

[Redacted]

Attentive Energy also released an MWBE/SDVOB and Non-Profit survey in partnership with MRV Group in August 2022. This statewide small business survey was designed to evaluate the challenges and business development pathways for DEI-owned businesses to enter the offshore wind industry. The survey asked respondents to share their experiences with procurement processes, grant applications, and DEI business certification, such as MWBE, SDVOB, DOBE, LGBTBE, DBE, Tribal Communities, and Justice-Involved Individuals. After completing the survey, participants became eligible for a business development award that comprises networking and mentorship opportunities, including a private session with offshore wind executives. The survey yielded over 120 responses from small businesses across New York State. Preliminary findings, as referenced in Section 16, point to a critical need for more proactive engagement and sharing of opportunities with DEI businesses and nonprofits. The report is included as an attachment to Section 16.

[Redacted]

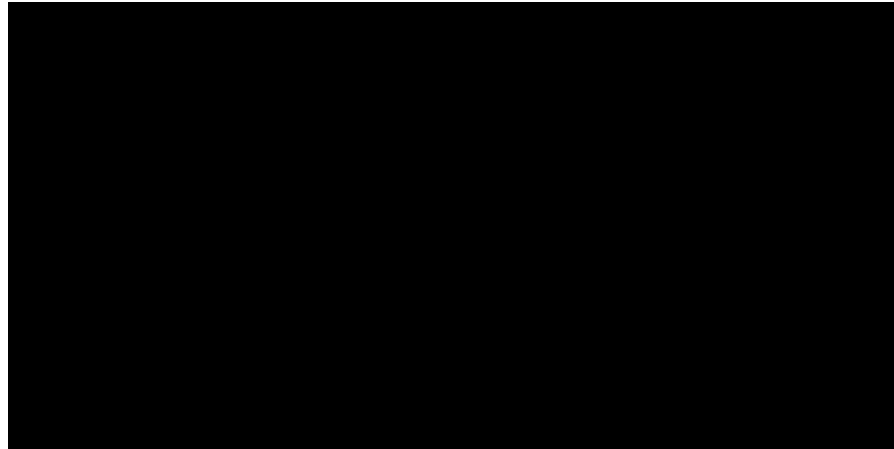
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As discussed in Section 16, Attentive Energy has prioritized becoming an active community member in its region.



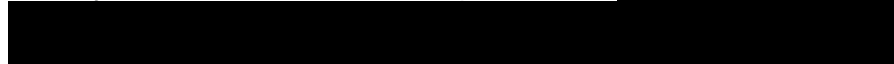
In November, Attentive Energy was the premier host sponsor of the Billion Oyster Project’s Billion Oyster Party, through which the team provided funds to secure long-term program activities that will engage students from NYC’s Disadvantaged Communities in STEM education.

In the Capital Region, Attentive Energy sponsored the ACENY 2022 Conference in Albany. Also in 2022, Attentive Energy hosted Offshore Wind Drinks, an informal networking opportunity for clean energy professionals and individuals to connect within the industry.

Indigenous Nations Engagement

To start gaining an understanding of Indigenous Nations’ history in the region, Attentive Energy hired a Tribal Liaison to build relationships with the 16 Tribes with historical and cultural ties to the Lease Area. The Attentive Energy team has created a resource guide to provide access and information about the offshore wind industry to the Tribes and identify potential topics for future engagement.

Recognizing the challenge of Tribal engagement in the growing offshore wind industry, Attentive Energy’s Tribal Liaison has also developed and distributed a Tribal Engagement Survey to help identify Tribes’ interest in the Project and their communication preferences.



Disadvantaged Community Benefits

All of New York State will benefit from the transition to renewable energy sources, but the Project’s hosting and proximate Disadvantaged Communities will receive concentrated economic and quality of life benefits. Based on guidance in ORECRFP22-1, Attentive Energy designed the following commitments to ensure that members of Disadvantaged Communities share in the economic and quality of life benefits that will result from the Project. In alignment with ORECRFP22-1 Appendix C.3, Attentive Energy distinguished between the following benefits for Disadvantaged Communities:

- **Project-Specific Expenditures** associated with the construction, operation, and maintenance of the Project
- **Community Focused Investments** to support Disadvantaged Communities, including economic development activities, approaches to improve access to clean energy solutions and opportunities to address existing environmental justice issues
- **Climate, Public Health, and Other Intrinsic Benefits** resulting from reduced fossil fuel generation

Project-Specific Expenditures (Category A)

The Project's development, construction, and operation will bring over \$2.1 billion in cumulative incremental benefits to New York State, with a strong focus by Attentive Energy to provide direct and measurable jobs accruing to Disadvantaged Communities.

Through the construction and operation of the Project, Attentive Energy will seek contractors who employ the local workforce with a particular focus on those from Disadvantaged Communities. As a result of the capital and operational spending, the 1,147 direct and indirect unique jobs will bring significant economic benefit to Disadvantaged Communities, especially to those surrounding the Ravenswood site.

Additionally, the Project will reduce the average energy burden in low-income households by a total of \$500 million over the Contract Tenor. Ratepayers will be able to reinvest money saved from reduced energy burden into their local communities, creating 95 secondary jobs and \$544 million of economic output.

Attentive Energy will leverage the power of procurement to bolster MWBE and homegrown New York State businesses wherever possible, and supplement that effort with investments in economic development activities to support local workers and small businesses as detailed in the next Subsection.

Community Focused Investments (Category B)

Based on decades of experience in workforce development, public engagement, and environmental advocacy, the Attentive Energy team identified potential partners to engage with and support priority initiatives as identified by Disadvantaged Communities. These partners include CBOs serving Disadvantaged Communities, higher education programs and incubators, workforce development organizations, nonprofits, labor organizations, environmental justice groups, and social service providers, including organizations based in public housing and community centers. Each engaged organization has a unique mission and credibility in their local community, and the capacity to scale services with additional funding.

Attentive Energy envisions creating an interconnected network of organizations to ensure Project success and catalyze a broad system-wide equity impact on the State's offshore wind industry.

Attentive Energy has sourced, codesigned, and committed \$78 million of funding to projects that will primarily impact Disadvantaged Communities across almost 30 organizations of varying sizes in diverse geographies, with a wide array of partnering MWBEs/SDVOBs, small business owners, and Just Transition workers across New York State.

Attentive Energy estimates that 96% of the benefits of spending from the \$78 million of targeted initiatives identified within the Lasting Legacy and Community Commitment investment programs will accrue to Disadvantaged Communities.

In the Lasting Legacy investment program, Attentive Energy will invest a total of \$300 million in environmental research and monitoring, workforce development, and other local programs focused on supporting Disadvantaged Communities. This will create 172 jobs and provide \$201 million in economic output to Disadvantaged Communities. The Community Commitment investment program will create 126 new jobs per year and thereby contribute \$76 million of economic output to Disadvantaged Communities.

The following list includes organizations and initiatives associated with Project investments in the Lasting Legacy and Community Commitment investment programs. A full list of these initiatives can be found in Table 18-4.

\$62.5 million in Jobs and Workforce Investments

Beyond the \$78 million of investments already designed and scheduled, Attentive Energy will create a \$192 million fund to ensure a sustained, long-term succession of initiatives to bolster economic growth locally, create employment opportunities, and support Disadvantaged Communities.

Attentive Energy assembled a network of workforce development, K-12, higher education, organized labor, and community partners to recruit, train, and credential New Yorkers seeking roles in the offshore wind industry. Attentive Energy will collaborate with the investment partners described below in Table 18-4 to open new career pathways in this burgeoning sector.

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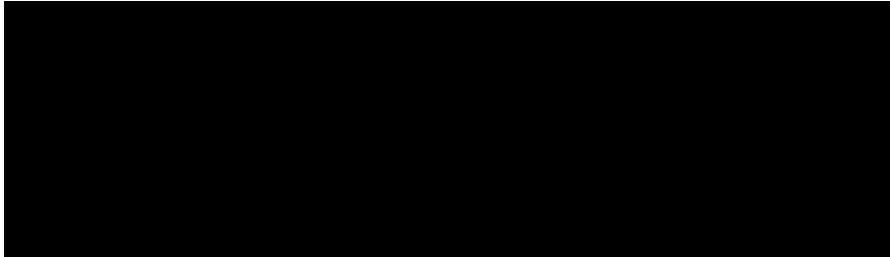
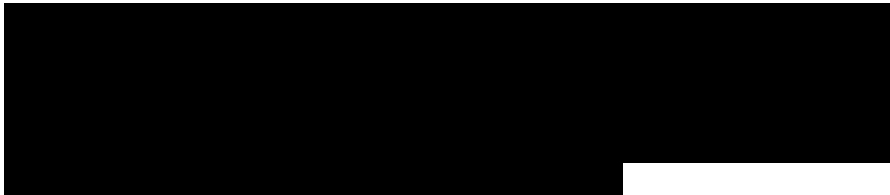
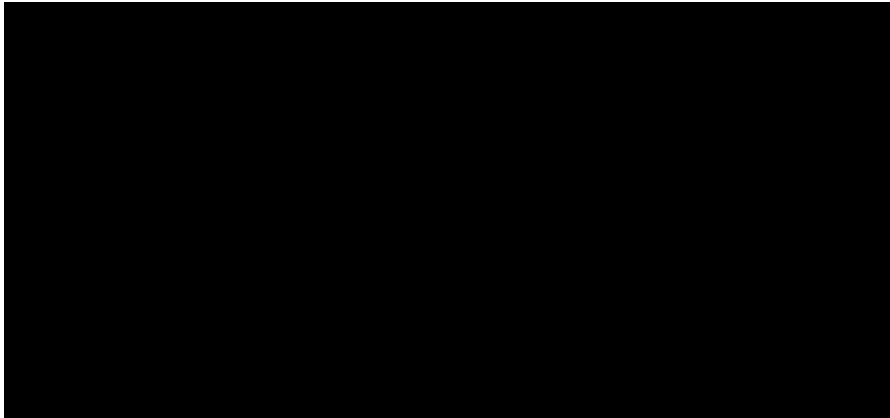
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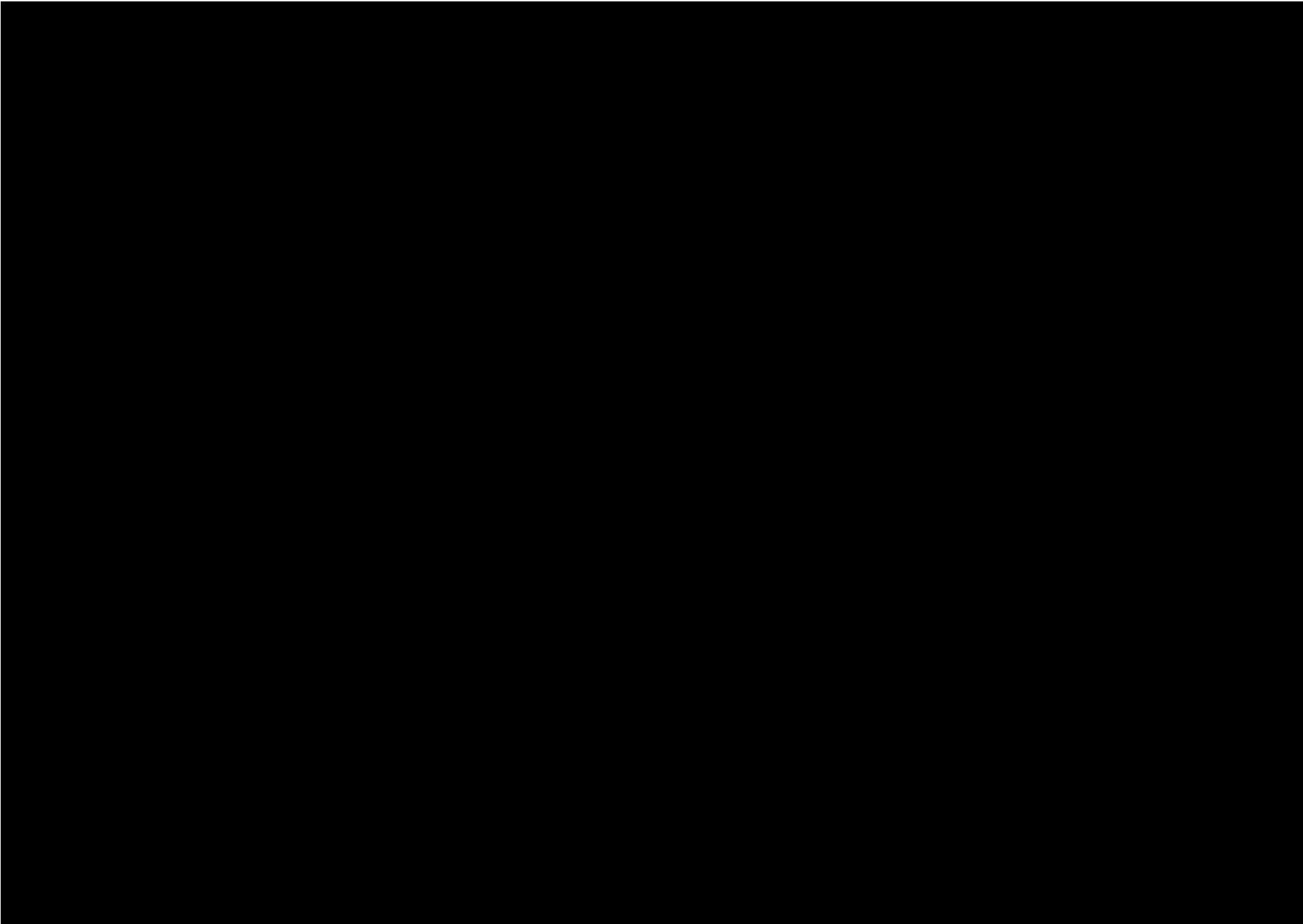
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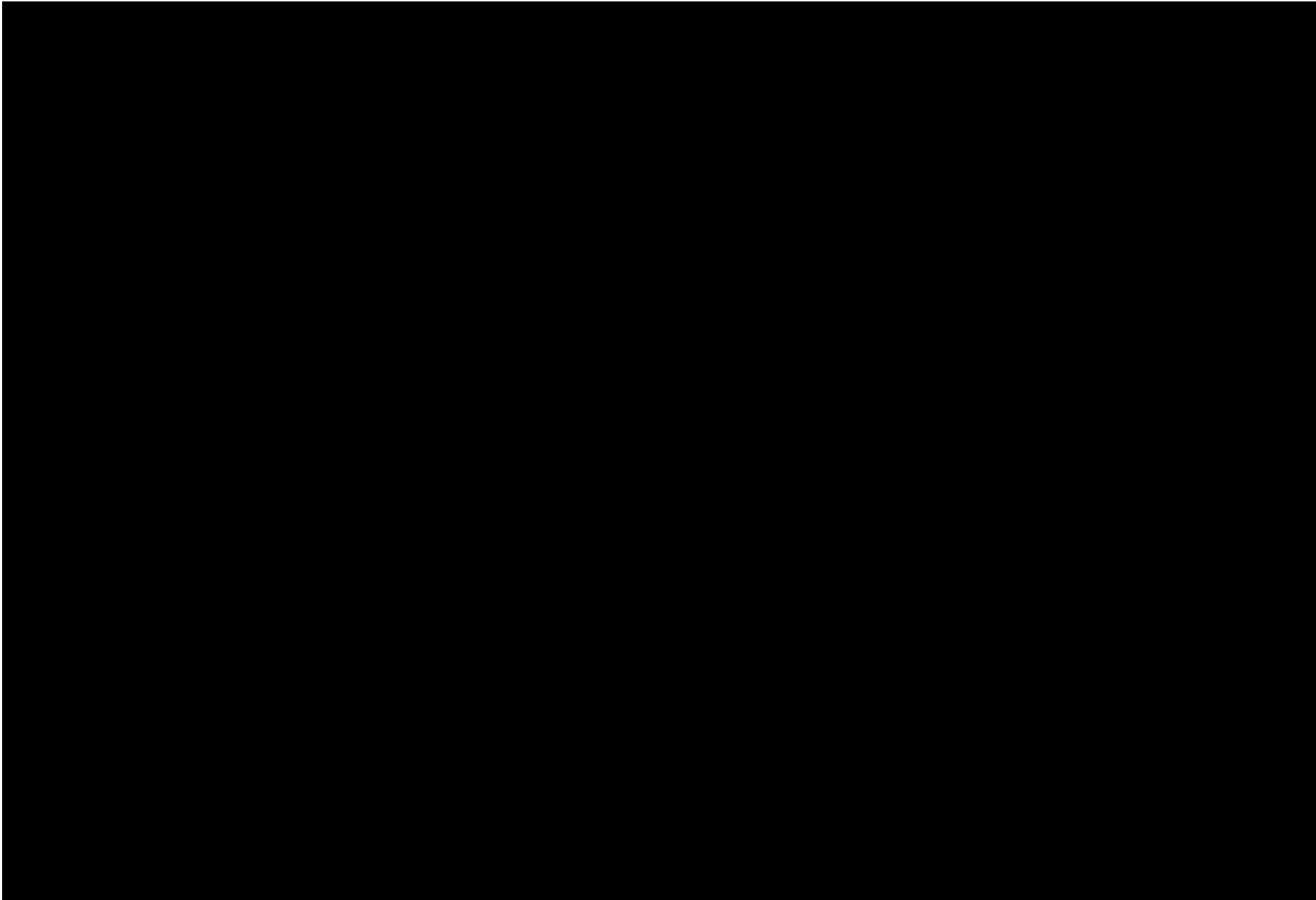
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To support its Clean Air and Health initiatives, Attentive Energy will collaborate with environmental justice organizations to equip young people in Disadvantaged Communities with air quality monitoring equipment and the analytical capacity to record and report on PM2.5, NOx, SOx, and ground level ozone.



Queensbridge Houses' Family Day 2022





Climate, Public Health and Other Intrinsic Benefits (Category C)

The Climate Act calls for the energy sector to prioritize the safety, health, and economic growth of Disadvantaged Communities and adopt practices that enable and empower these communities to thrive in the clean energy future.

Attentive Energy has found local communities to invest in that are eager to be part of the clean energy transition. Through the Project, these local communities will be the heart of a first-of-its-kind model for retiring fossil fuel units in New York State and across the country.

The Project is forecasted to decrease CO₂, NO_x, and SO_x emissions by 480,300 metric tonnes per year in NYC, where approximately 60% of the population lives in a Disadvantaged Community under the Climate Justice Work Group criteria and 16% under the interim NYSERDA criteria. The cleaner air will improve the health of these residents through reduced cases of asthma, heart attacks, and premature death which can be attributed to emissions.

The proposed retirement of the Unit at Ravenswood will lead to direct and identifiable decreases in local air pollutants in a historic Disadvantaged Community, so the majority of the health effects will be seen locally, with almost 800 cases of asthma exacerbation avoided annually within NYC. The Project will directly contribute to 2% of the reduction needed for New York State to meet its economy-wide 2030 GHG reduction targets. Furthermore, the fossil repurposing at Ravenswood will decrease New York State CO₂ emissions by an average of 1,100,000 metric tons per year, which is equivalent to removing 13% of the passenger vehicles from the streets of NYC.

In addition to improved air quality, the investment in economic development activities will ensure that Disadvantaged Communities are tapped to enter the clean energy industry. Accessing good paying jobs in a growing sector can bring financial security and wealth-building opportunities to those in

Disadvantaged Communities, which will benefit families and generations to come. Small businesses in Disadvantaged Communities who enter the supply chain and support other parts of the Project across New York State will also receive these economic benefits for their families and communities.

Attentive Energy is the clear choice for Disadvantaged Communities

The Project will drive meaningful investments to support the buildout of a robust and inclusive clean energy economy that will meet New York State goals and establish New York as the premier offshore wind hub in the U.S. Retiring one of the 400 MW steam turbines at Ravenswood and replacing it with renewable energy is a significant environmental justice victory for Disadvantaged Communities near the facility, which have experienced health disparities attributable in part to poor air quality. Other Disadvantaged Communities across New York State, as well as communities close to onshore and offshore components of the Project, also experienced disparities that this Project aims to mitigate through engagement and investment.

The Project involves significant construction efforts, but the POI at Ravenswood and Attentive Energy's Fossil Repurposing Proposal will minimize the disruption to Disadvantaged Communities. Any disruption that occurs will be largely confined to the construction period, and only in the immediate vicinity of Ravenswood. Attentive Energy proactively engaged potentially affected communities to discuss specific concerns. Attentive Energy will continue to communicate clearly and often, notifying stakeholders in Disadvantaged Communities about Project impacts and benefits

Attentive Energy is dedicated to working with members of Disadvantaged Communities to ensure their needs and aspirations continue to be prioritized throughout the life of the Project.

By retiring a fossil fuel unit in New York and replacing it with an offshore wind interconnection at the same location, Attentive Energy will improve the quality of life in a Disadvantaged Community, while providing Ravenswood's Union workers a Just Transition to the new clean energy future.

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[REDACTED]

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NYCHA Development Data Book

New York State Museum

SECTION 19

NEW YORK ECONOMIC BENEFITS



Section 19 Table of Acronyms

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CRIS	Capacity Resource Interconnection Service
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FTE	Full Time Employee
GE	General Electric
GHG	Greenhouse Gas
GW	Gigawatt
GWO	Global Wind Organization
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█	████████████████████
JSC-TWG	Jobs and Supply Chain Technical Working Group
m	Meters
MW	Megawatt
MWBE	Minority and/or Women-Owned Business Enterprise
NAACP	National Association for the Advancement of Colored People
NGLCC	National LGBT Chamber of Commerce
NYCEDC	New York City Economic Development Corporation
NYISO	New York Independent System Operator, Inc.
O&M	Operations & Maintenance

OEM	Original Equipment Manufacturer
█	██████████
PLA	Project Labor Agreement
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█	████████████████████
SCIP	Supply Chain Investment Plan
SDVOB	Service-Disabled Veteran-Owned Business
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WTG	Wind Turbine Generator

19. NEW YORK ECONOMIC BENEFITS

Overview of New York Economic Benefits

Introduction

Attentive Energy’s Required Standalone Proposal⁴⁰ will deliver a total of over \$25.6 billion in economic benefits and jobs to New York State during its development, construction, and OREC contract operations period.⁴¹ These New York State Benefits will support the buildout of a robust and inclusive clean energy economy, meeting State goals and establishing New York as an offshore wind hub in the U.S.

Key components of these benefits are:

- \$10.0 billion in savings for New York ratepayers
- \$8.0 billion in emissions reductions
- \$2.7 billion in public health benefits
- \$2.1 billion of direct economic activity
- \$1.5 billion in other indirect economic benefits

Savings for New York Ratepayers

Through offshore wind generation, the Project is projected to reduce the wholesale cost of energy and capacity by \$10.0 billion over the Project’s contract tenor. The savings from these wholesale costs will be realized by businesses and households throughout New York State. The Project will reduce the energy burden to low-income households by a total of \$500 million over the contract tenor.



Figure 19-1 Attentive Energy One presence and investment plans in New York

Emissions Reduction Benefits

The Project is expected to reduce CO₂, NOx, and SOx emissions by 26 million, 5,600, and 1,600 metric tons, respectively. The savings attributed to the social cost of these reductions totals \$8.0 billion. The reduction in emissions from the Project will, by itself, contribute to 2% of the reductions needed for New York State to meet its economy-wide 2030 GHG reduction targets and will also contribute to New York City's emissions reduction targets.

Public Health Benefits

The Project and its ground-breaking Fossil Repurposing Proposal will yield a cumulative health benefit of \$2.7 billion. Almost 800 cases of asthma exacerbation will be avoided annually within New York City. This reduction in pollutants will most benefit historic Disadvantaged Communities in the direct vicinity of Ravenswood, providing measurable improvements to Attentive Energy's neighbors.

Direct and Indirect Economic Activity and Property Taxes

The Project will create \$2.1 billion in direct economic output and 1.5 billion in other indirect economic benefits.

Supply Chain Investment Plans

The Project will make a major contribution to establishing New York State as the U.S. hub for the offshore wind industry by offering three groundbreaking SCIP Proposals:

- **An LM Wind Power blade facility and a GE Renewables nacelle facility, both in the Capital Region.**

Strategically located at the Port of Coeymans in Albany, New York, these facilities would produce locally-sourced turbine components, available to serve the entire U.S. offshore wind market. The creation of a blade and/or nacelle facility in the Capital

region will cement Coeymans as a catalyst for growing an offshore wind hub in a Disadvantaged Community that will attract a variety of suppliers. By establishing a blade facility and complementary nacelle facility in New York State, GE provides NYSERDA with an opportunity to locally source not one but two major wind turbine packages from the same supplier.

- **The Arthur Kill Terminal marshalling port on Staten Island** will create over \$ [redacted] in direct economic activity for New York State, including [redacted] jobs.

[redacted] AKT is likely the most advanced offshore wind infrastructure project seeking matching NYS funds through this SCIP process. Once completed in 2026, this new high-capacity marshalling port will enable the cost-effective construction of the Project, and many more offshore wind projects in the future. AKT will help to drive down the cost of NYSERDA's future offshore wind procurements while establishing a permanent base of jobs and economic development in New York State.

Attentive Energy is committed to the development, construction, and operation of AKT to support offshore wind development off New York.



Dozens of community leaders, environmental justice advocates, and union workers gather at Ravenswood Generating Station in support of the clean energy transition

Community Investment Programs

Embedded within its range of Proposals, Attentive Energy is offering NYSERDA the option to choose between three alternative investment programs to support the buildout of a robust and inclusive clean energy economy. Table 19-8 illustrates which investment programs are included with each Proposal in this Submission. Ninety-six percent of the targeted investments within each of the Lasting Legacy and Community

Commitment investment program is expected to go towards Disadvantaged Communities, far exceeding the Climate Act goal of 40% of benefits going towards Disadvantaged Communities. With these expansive, equity-driven investment plans, Attentive Energy can help catalyze the transformation that New York’s environmental justice groups have been working towards for decades.

Option 3: Protecting Biodiversity

An unprecedented \$30 million to protect and restore New York State biodiversity. This investment program is committed to delivering on NYSERDA’s “no net loss of biodiversity” target. It offers the most cost-effective solution to ratepayers to deliver renewable energy directly into New York City and advance New York’s nation-leading offshore wind goals.

Option 1: Lasting Legacy

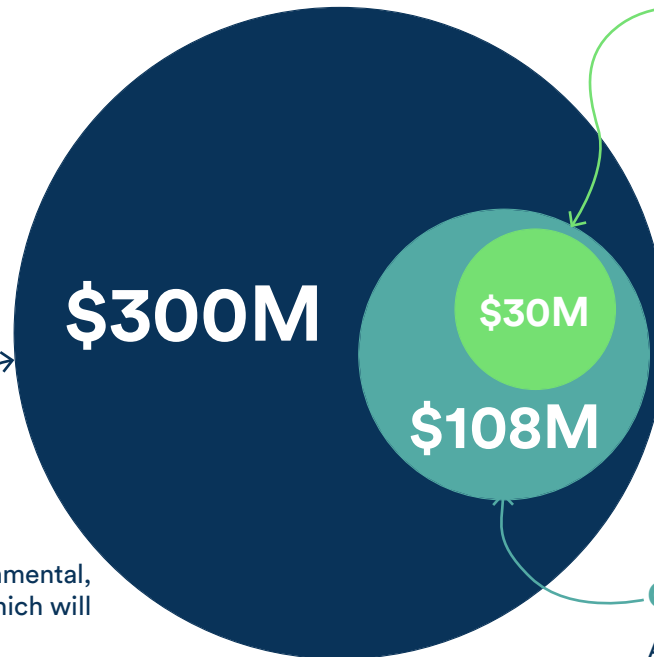
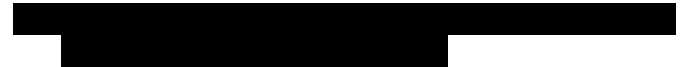
A total of \$300 million in community, environmental, and fisheries investment, \$201 million of which will go to Disadvantaged Communities.

The Lasting Legacy includes the establishment of an \$192 million fund to unlock investments throughout the State to protect the environment and advance an equitable offshore wind industry. Attentive Energy is committed to giving stakeholders an active and meaningful role in selecting the trustee/administrators who define and manage the trusts. The Lasting Legacy investment program also includes the investments detailed in the Community Commitment and Protecting Biodiversity investment programs.



Option 2: Community Commitment

A total of \$108 million of investments, including \$78 million targeted to deliver community investments to New York, informed by NYSERDA focus areas and buttressed by the recommendations and needs of leaders and communities that have been on the ground for decades. These targeted community investments prioritize workforce development, Disadvantaged Communities, and particularly those communities that have been most impacted by fossil fuel generation. The Community Commitment investment program also includes the investments detailed in the Protecting Biodiversity investment program.



Summary of Economic Benefits

The sum of the forecasted economic benefits from the Project's Base Proposal are substantial, totaling up to \$25.6 billion during its construction and contract tenor, as illustrated in Table 19-1. This equates to average annual benefits of over \$1 million per year, including the following categories of benefits:

[REDACTED]

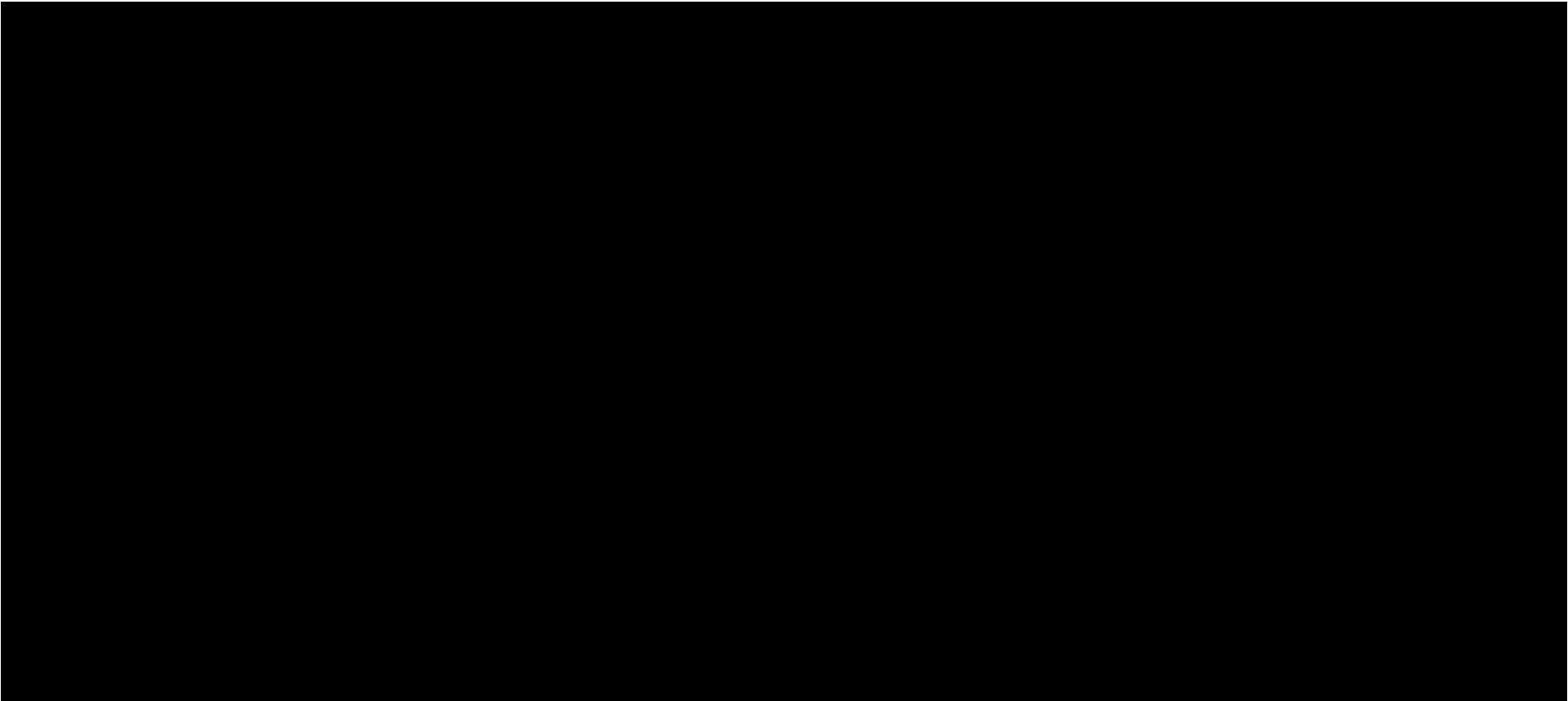
[REDACTED]

Table 19-1 details the Project's benefits to New York State, inclusive of Attentive Energy's proposed Lasting Legacy investment program. In addition to direct economic benefits in the form of direct, indirect, and induced project economic output, the Project will deliver additional benefits in the form of reduced emissions, health benefits, and more.

Creating and Sustaining Good-Quality Jobs in New York

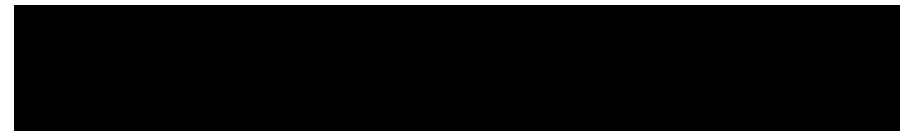
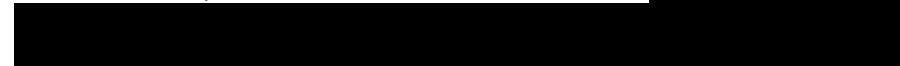
Attentive Energy is based in, and focused on serving, New York State. Attentive Energy has established its headquarters and principal place of business in New York City. As Attentive Energy develops this and future projects, hiring for development and project management staff will be concentrated on its New York office so that, as the team grows, New York will directly benefit. The majority of the Project's construction will be in New York, based out of the AKT offshore wind marshalling port in Staten Island, [REDACTED]

For decades to come, Attentive Energy will operate its Project out of the Ravenswood O&M Hub in Queens, which will not only provide significant local expenditures over the Project's lifetime, but will also ensure a Just Transition for the existing union workforce at Ravenswood.



The Project Will Create New Long-Term Jobs for New Yorkers

Attentive Energy is committed to bringing long-term, high-quality jobs to New York State. The Project includes the buildout of the Offshore Wind Generation Facility, underwater HVDC transmission lines, onshore interconnection, and the Ravenswood O&M Hub. [REDACTED]



The Project will also contribute a total of \$383 million in compensation

to New York State through the direct jobs required to build the facilities (e.g., design, engineering, construction, and other skilled labor). [REDACTED]



The Ravenswood O&M Hub: A Just Transition for Organized Labor

Attentive Energy is building the Ravenswood O&M Hub to service the Project and provide union jobs for the UWUA Local 1-2, which has been operating Ravenswood Generating Station for decades. Attentive Energy and its Sponsors are building the facility to support not only the Project but for 3,000 MW of operational capacity, meaning that it may ultimately serve as a base for multiple offshore wind farms, anchoring a major clean

energy hub in the heart of NYC. The benefits outlined in this Submission refer only to those associated with the Project (1,404 MW), and the usage of the Ravenswood O&M Hub beyond the Project would bring additional benefits to New York State. The Ravenswood O&M Hub will follow through on the Climate Act's Just Transition Plan by ensuring that the offshore wind that powers New York also creates union jobs in New York.

Secondary Jobs

The Project will create secondary jobs as it will require goods and services to support development and construction (indirect secondary jobs) and increase spending and sales (induced secondary jobs). [REDACTED]

Jobs and Workforce Plan

Attentive Energy has designed and developed a comprehensive Jobs and Workforce Plan, underwritten with a planned investment of \$62.5 million in the Lasting Legacy and Community Commitment investment programs, to assemble a network of workforce development, K-12, higher education, organized labor, and community partners to recruit, train for soft and technical skills, reduce barriers for, and credential New Yorkers seeking roles in the offshore wind industry. The confidential and public versions of the Jobs and Workforce Plan are provided as Attachments 19-A and 19-B, respectively. Attentive Energy understands that employing a unionized workforce is essential, and that the Project must be a shared win for both the environmental justice and labor movements. The Sponsors have a long and successful history of cultivating mutually-beneficial relationships with their respective union workforces. [REDACTED]

Forward-Thinking Initiatives to Advance New York State's Offshore Wind Portfolio

MWBE/SDVOBs

Attentive Energy applauds Governor Hochul's goal for 30% utilization of MWBE and SDVOBs and understands that there has been significant growth in MWBE/SDVOB certification that has resulted in record-level achievement of MWBE/SDVOB participation in recent State onshore projects. In line with its company values, Attentive Energy believes in meaningful, achievable commitments that should be accountable to actionable progress. For this Submission, Attentive Energy has established a data-informed, realistic commitment designed to facilitate meaningful participation, not empty promises that may lead to frustration in the industry. [REDACTED]

[Redacted]

[Redacted]

[Redacted]

to far exceed this threshold, with \$74.5 million of Attentive Energy's precedent-setting \$78 million in commitments – nearly 96% of this funding - designed to deliver sustainable, high-impact benefits to Disadvantaged Communities.

[Redacted]

To determine the Project benefits applicable to Disadvantaged Communities, PA used both the New York State Climate Justice Working Group Draft Disadvantaged Communities Criteria (CJWG) and List Technical Documentation published March 9, 2022, and the NYSERDA interim criteria for Disadvantaged Communities (Interim). Attentive Energy includes figures for both definitions throughout this report and the OREC narrative and distinguish them with either a “(CJWG)” or “(Interim)” disclosures. Table 14 shows that, if the CJWG criteria are adopted, more than half of the overall economic benefits of the Project will accrue to Disadvantaged Communities.

The Project offers significant potential for employment of individuals living in Disadvantaged Communities.

[Redacted]

Disadvantaged Communities

The Climate Act requires Disadvantaged Communities receive a minimum of 35 percent, with a goal of 40 percent, of the benefits of clean energy investments. Attentive Energy has structured its targeted community investments in the Community Commitment and Lasting Legacy programs

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

New York Buy American Act

Attentive Energy supports NYSEDA's domestic iron and steel expenditure threshold and commits that every Proposal within its Submission will at least meet the minimum requirement of \$114,000 spent on U.S. iron and steel components per MW of Offer Capacity. Attentive Energy has engaged with the OEMs and manufacturers in the offshore wind market over the last few years, through informal engagements and RFIs, to assess steel sourcing constraints within the global supply chain. In further preparation for primary steel packages, Attentive Energy's engagement will be extending to U.S. steel mills to understand their limitations in supplying to the market. At this time, Nucor is the only steel mill advertising a new facility that is planned to have the capability to manufacture steel plates to the required specifications of offshore wind structural steel components (4.2 m width). Attentive Energy expects additional steel mills may also make this shift in time and will engage with them to assess how the steel required to meet the minimum provision of \$114,000/MW in domestic steel purchases will be delivered, with the hopes to deliver even higher value if possible.

Local Emissions and Health Benefits by Repurposing Fossil Infrastructure for the Delivery of Offshore Wind

While reductions in carbon emissions benefit all New Yorkers, the Project-induced reductions in other emissions will have a strong local impact NOx, SO2, and PM2.5 are all linked to higher asthma attacks and other lung problems. In the first 25 years of operation of the Project, 1,600 metric tons of SOx emissions and 5,600 metric tons of NOx emissions will be avoided state-wide, with over 40% of the NOx emissions reductions located in New York City. The health benefits associated with these reductions are significant: using the EPA's estimates for avoided health costs, the Project will result in an estimated avoidance of \$1.9 billion in social and public health costs over the 25-year contract period. Over \$1.3 billion, or 70%, of these benefits are expected to accrue within New York City. The identifiable decreases in air pollutants from the retirement will also lead to the avoidance of approximately 800 cases of asthma exacerbation within

New York City. State-wide, PA estimates the Project will annually save up to 5 lives per year, yielding an economic benefit of up to \$106 million per year across New York and with a cumulative benefit of \$2.7 billion over the contract period.

SCIPs and Related Purchase Commitments to Build New York's State's Manufacturing & Port Capabilities

The three SCIP Facilities contemplated in this Submission are described in more detail in the next subsection, and information on SCIP-related purchases is provided in the Economic Benefits Plan. [REDACTED]

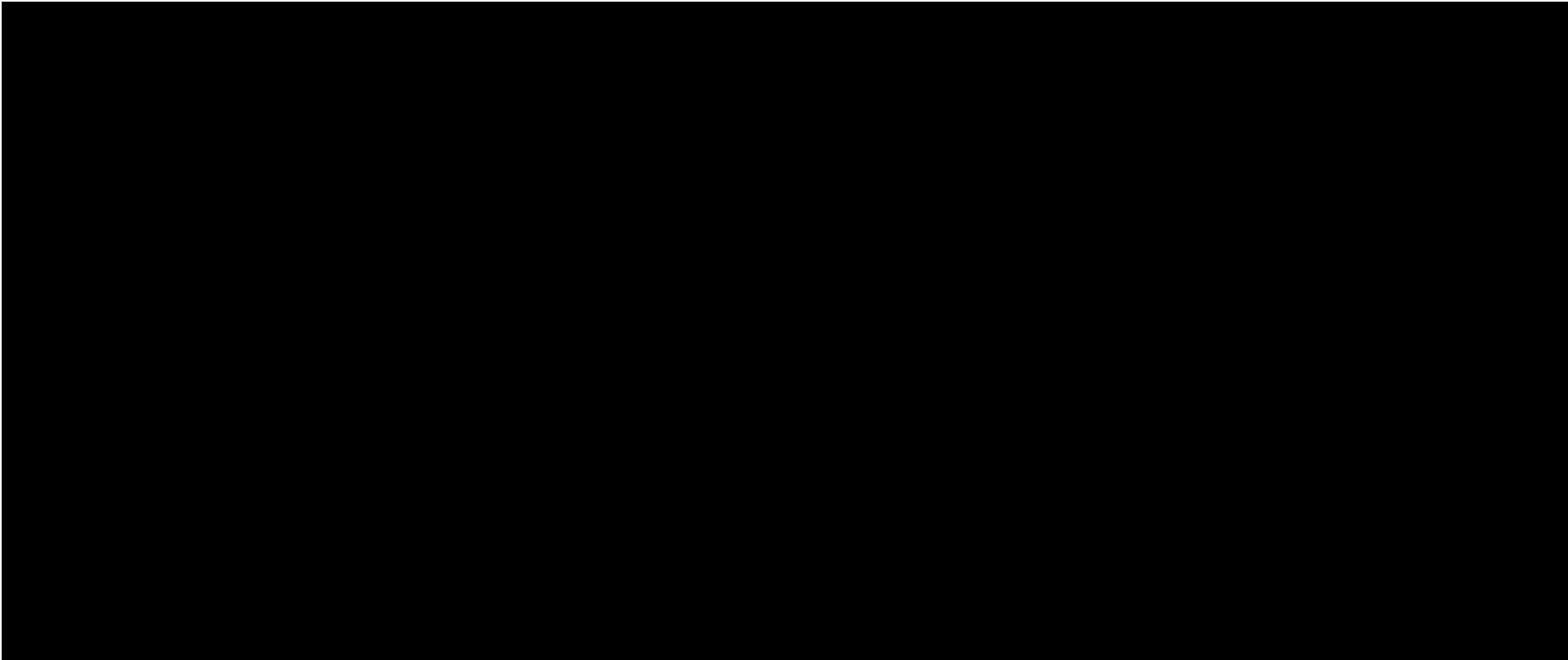
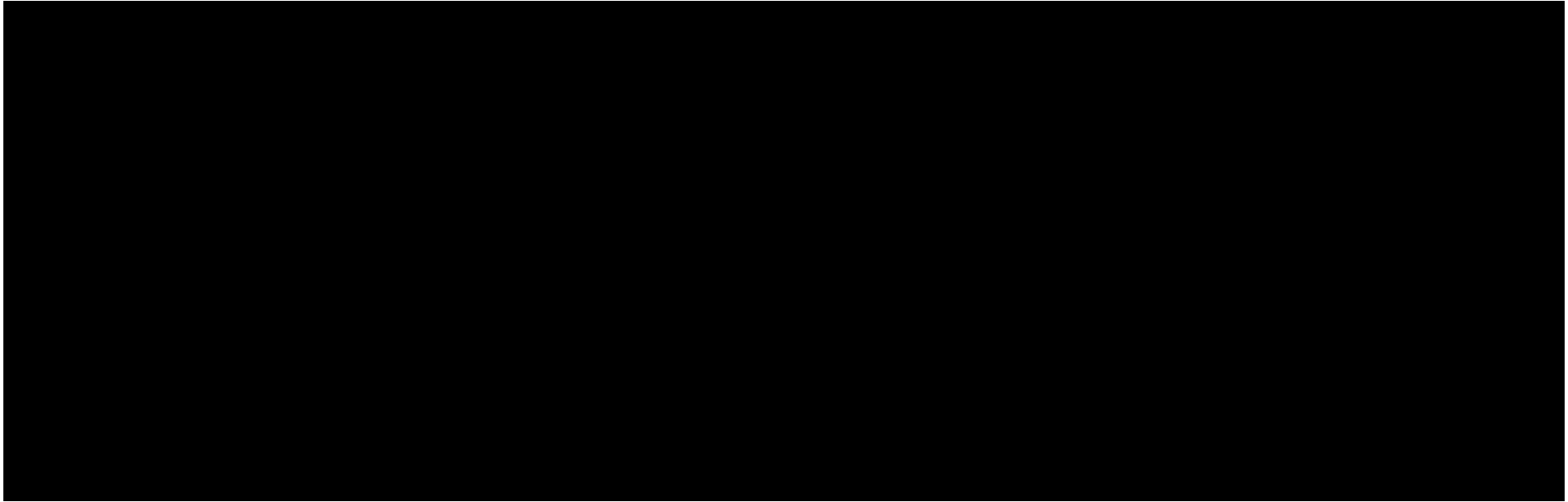
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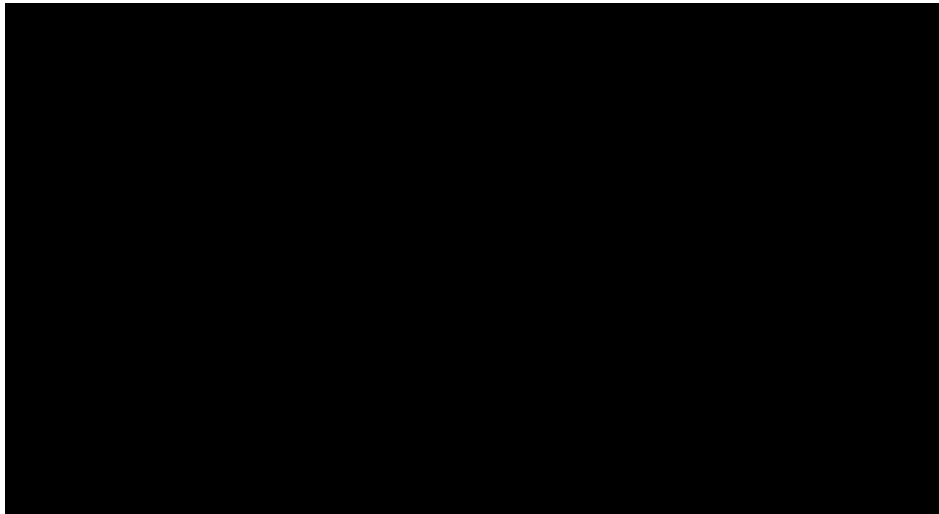
[REDACTED]

Attentive Energy SCIPs: Bolstering the New York State Offshore Wind Supply Chain

Attentive Energy has carefully crafted its SCIP offerings to provide flexibility to NYSERDA to award the specific balance of investments that best suit the broad range of options under its consideration in this Solicitation. Each SCIP Proposal includes one or more SCIP facilities and offers a unique value proposition for the offshore wind supply chain:

[REDACTED]





Overview GE Vernova SCIP Offerings

Attentive Energy has selected GE Vernova and its subsidiary LM Wind Power as a SCIP partner to bring wind turbine blade and nacelle manufacturing facilities to the State of New York, [REDACTED]

[REDACTED] Establishment of a major turbine manufacturing facility is the marquee offshore wind investment that delivers jobs and economic development within a region; currently, there is one blade manufacturing facility envisioned in the U.S., in Virginia. As the current supply chain is limited and demand for offshore wind deployment is increasing rapidly, OEMs are making decisions on where to expand capacity by locating turbine manufacturing facilities in consideration of the global market. There will not be a facility in every state, or in every regional market: New York State must take decisive action in this solicitation to secure a blade facility now to deliver hundreds of New York jobs, or potentially lose that opportunity to another state.

As a 100% owned subsidiary of GE Vernova, LM Wind Power has a global standing as a premier manufacturer of wind turbine blades and will be responsible for bringing the New York blade factory to market. LM Wind Power will leverage the knowledge, experience, partnerships, and history of GE to design, build, and operate an offshore wind blade factory in Coeymans in the Capital Region [REDACTED]



LM Wind Power factory in France

In addition to the blade facility, Attentive Energy has worked with GE Renewables to propose a complementary nacelle facility, which would be incremental to the blade facility at Port of Coeymans [REDACTED]

[REDACTED] By selecting the nacelle facility in addition to the blade facility, NYSERDA can make the Port of Coeymans the Northeast U.S.' preeminent offshore wind energy manufacturing hub. [REDACTED]

Why GE Vernova is The Right Choice for New York

LM Wind Power's state-of-the-art blade facility will bring the following benefits to New York State:



Job Creation – Turbines are at the center of the offshore wind supply chain, and the creation of the LM Wind Power blade facility will bring over 650 long term direct jobs to its the manufacturing facility, as well as 550 temporary construction jobs and 900 total indirect and induced jobs. In addition to the jobs created in the blade facility, the nacelle facility promises to bring 220 long-term direct jobs, 510 temporary construction jobs and 490 indirect and induced jobs to the Port of Coeymans. Placing the facility at Coeymans will serve as a catalyst for growing an offshore wind hub in the Upstate region's Disadvantaged Communities, attracting a variety of suppliers to set up shop.



Local Roots – Having recently celebrated 130 years in the Capital Region, GE demonstrates a longstanding commitment to the State. LM Wind Power will leverage GE's existing supply chain in New York from its Power and Renewable Energies business unit which includes over 1,300 New York suppliers to identify those interested in contributing to the offshore wind supply chain.

Port of Coeymans:

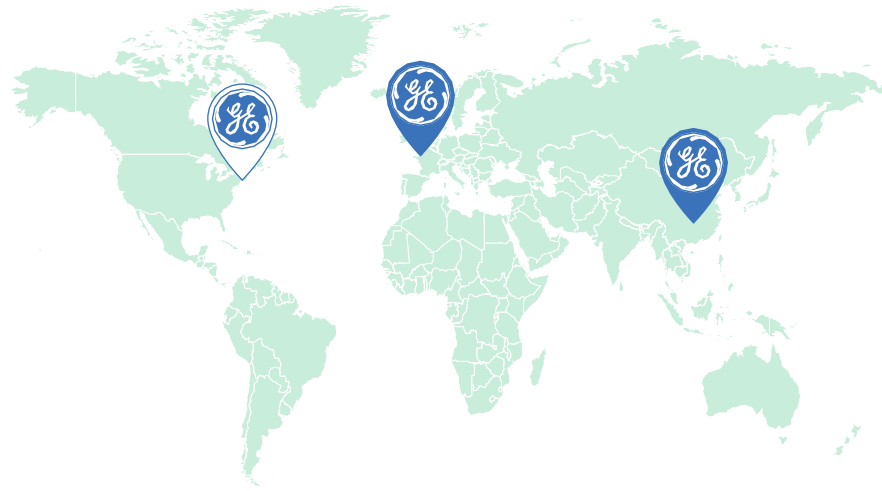
A Strategic Location for Turbine Manufacturing

Located along the Hudson River 10 miles south of Albany and 100 miles north of New York City, the Port of Coeymans is a privately-owned, full-service, deep water inland marine terminal with modern facilities, state-of-the-art technology and equipment, and an experienced local labor force. It is the most advanced shovel-ready site for offshore wind manufacturing in New York State. Establishing an offshore wind facility at an existing working port avoids the risk of permitting and development of a new facility. Localized manufacturing can easily take shape where there is space available to cover manufacturing and storage of the wind turbine components. An operating port also minimizes the need for larger capital investments otherwise required at an undeveloped or underdeveloped location.

The Port of Coeymans has proven to be a boon to both the local and state economies; hundreds of permanent jobs are provided to residents of Coeymans, New Baltimore, and the surrounding communities, and the Port of Coeymans is able to provide support to various projects and shipping operations in downstate New York. The town of Coeymans is identified as a Disadvantaged Community in the State of New York. Strategically locating this major manufacturing hub at the port has the potential to be an economic boon for the region and its residents.

Economic Benefits of Blade Facility

GE has engaged community partners with memorandums of understandings to reach and serve all ages, education levels, and backgrounds with a focus on providing industry exposure and career opportunities to the local and state-wide underserved and disadvantaged population. In addition to the jobs and economic benefits summarized in Table 19-5, GE is involved in workforce development programs to create workforce development pathways in the offshore wind industry. These include RELC – one of the primary training hubs for wind technicians – in partnership with the GWO, which has trained over 13,000 onshore wind technicians to date. GE has also partnered with Pathways to Wind, which was created to serve community members of all ages and will give historically under-served communities exposure, education, training, and priority to opportunities in the emerging offshore wind industry.

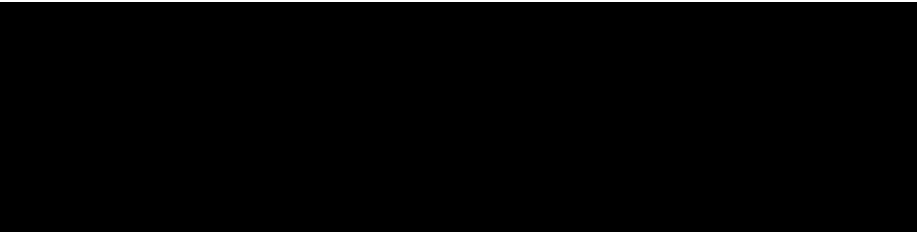


GE Renewables facilities (coming soon to New York State)

Role of Nacelles in the Supply Chain

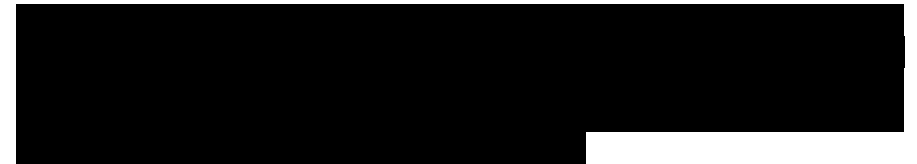
A nacelle is the most complex component of a wind turbine, as it includes a significant amount of specialized internal parts and equipment. Utilizing GE’s extensive vendor list from their experience in the New York onshore wind market, there will be opportunities to qualify local vendors to provide different types of internal equipment in the nacelle, such as steel platforms, pipes, electrical equipment, and cooling systems.

Complexity can be a source of risk in the context of nacelle performance. The nacelle contains the primary mechanisms of the wind turbine, allowing the blades to properly position for optimal wind speeds. If something breaks and replacement parts are required, the OEM looks for the fastest lead times to ensure replacement parts are available to reduce turbine downtime. When a nacelle manufacturing facility is localized, the roots of the supply chain begin to take shape and provide the OEM with local options to supply replacement parts.

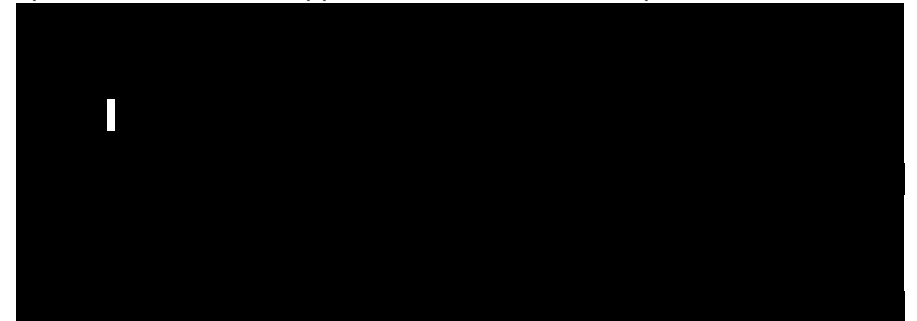


Overview of the Arthur Kill Terminal Port Facility and Associated SCIP

Attentive Energy has long recognized the strategic benefits of establishing a world-class offshore wind marshalling port on the western shore of Staten Island – an ideal location to be the marshalling hub for this Project and future offshore wind projects.



Attentive Energy is committed to the development, construction, and operation of AKT to support offshore wind development off New York.



Attentive Energy’s plans for the development and use of AKT are structured to provide New York State a low-cost path to increase marshalling capacity supporting construction of offshore wind projects, including projects outside of the state and beyond the Northeast U.S.

Strategic Benefits of AKT

AKT is centrally positioned to serve as the preferred staging and assembly port for Attentive Energy and more than 5,000 MW of offshore wind projects to be built in the New York Bight. With deep water access via the Arthur Kill, and no height restrictions, AKT will be the only offshore wind port in New York capable of accommodating future U.S. WTIVs and to most efficiently perform transport of fully assembled turbine components. Designed to support weight bearing capacities of future generation WTGs, and centrally located among 11 federal offshore wind lease areas still seeking power purchase agreements, AKT is poised to generate decades of New York economic benefits.

labor organizations, local community environmental justice groups, and schools to create opportunities to expand Disadvantaged Community members' participation in offshore wind.

Construction of AKT is expected to create an estimated [REDACTED] construction jobs in New York over a [REDACTED]. The facility is expected to support at least [REDACTED] jobs (FTEs) at the port and on vessels operating out of the facility for at least a [REDACTED], plus additional vessel and related maritime activity in New York Harbor, such as tugs, barges, refueling, among others.

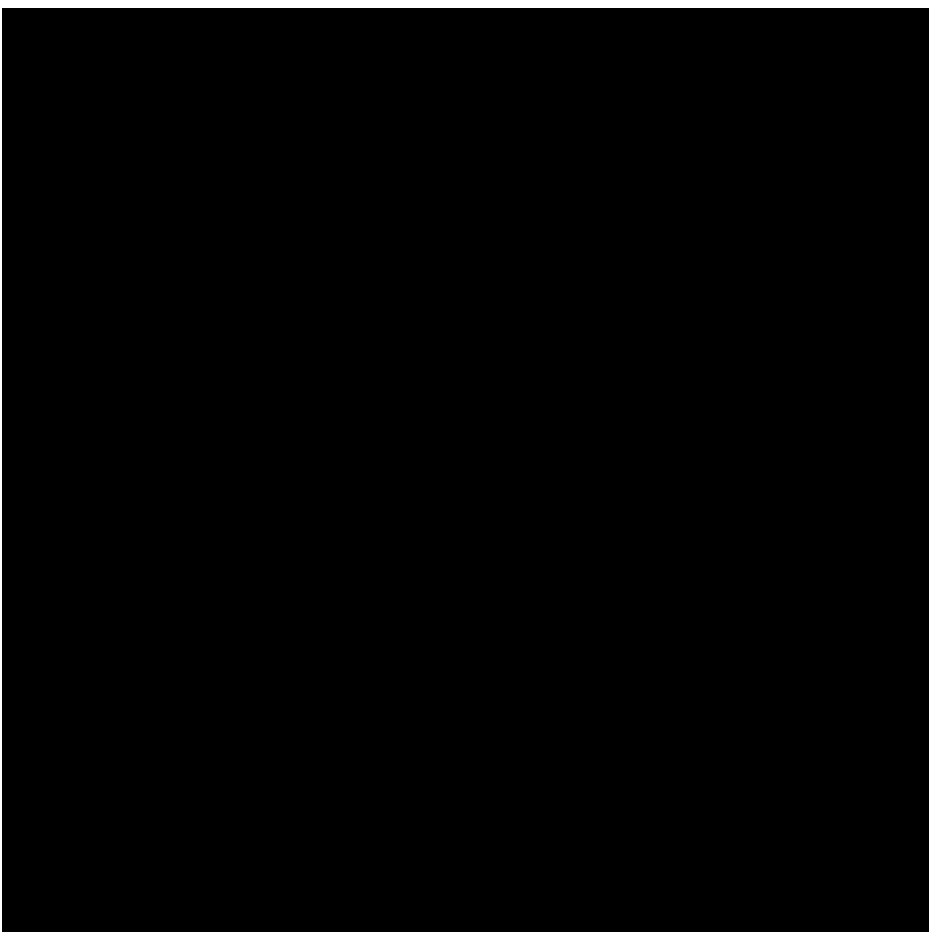
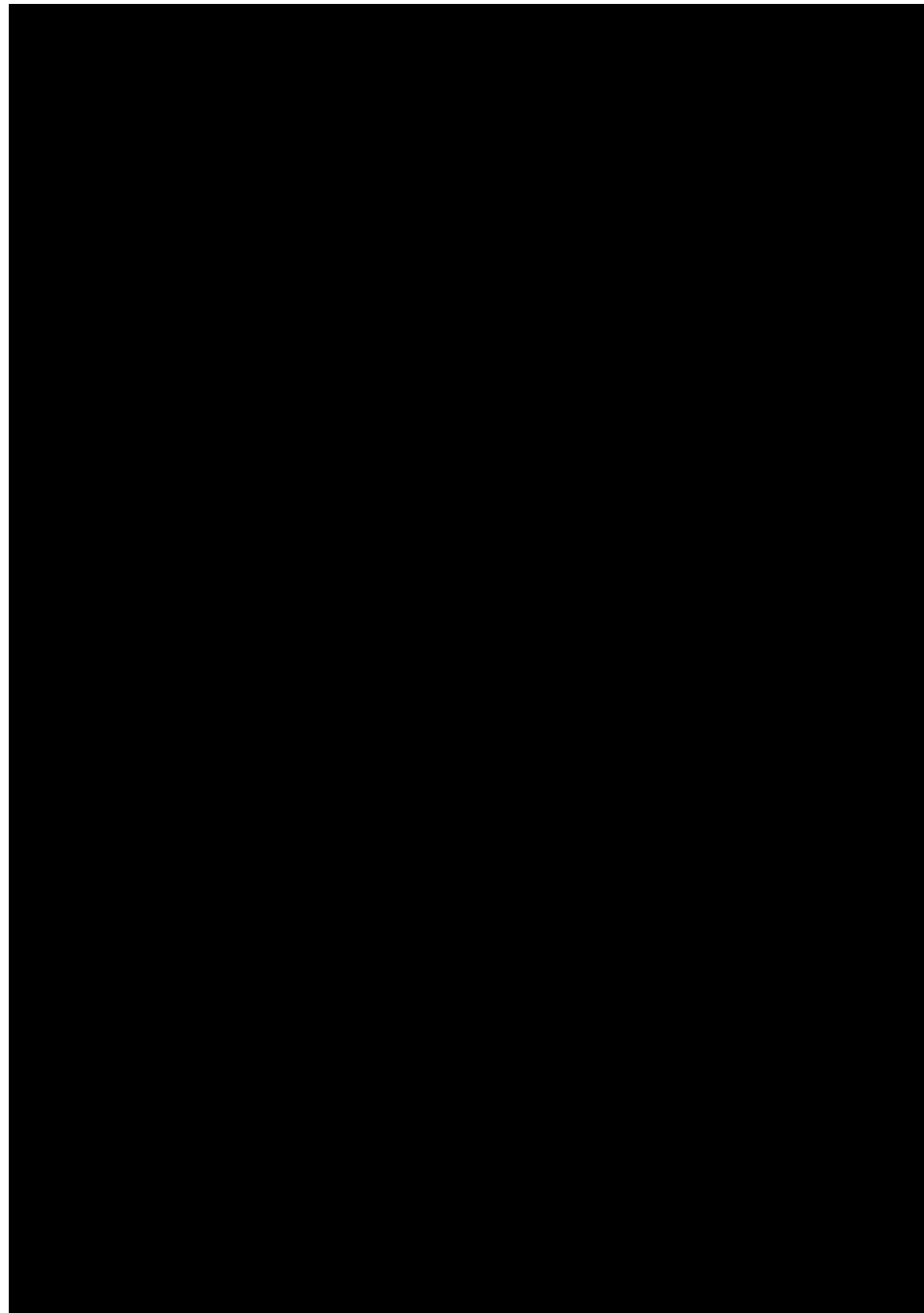
AKT adds tremendous value for New York State and provides critical capabilities to the American offshore wind market by:

1. Offering easy access to New York manufacturers and suppliers located up the Hudson River;
2. Providing an efficient marshalling concept that significantly reduces costs and emissions based on its proximity to lease areas compared to other ports, and
3. Flexibility for developers to consider the full range of installation strategies, ranging from future WTIV's to feeder concepts, which can minimize execution cost and enhance project viability in the event vessel availabilities or installation concepts change.

Economic Benefits of AKT

AKT is expected to realize substantial economic benefits for New York State, and is highly focused on Disadvantaged Communities in its Workforce Development, Equity and Inclusion Plan. Located within five miles of a Disadvantaged Community, AKT is well positioned to partner with union

AKT is future proofed by design, considering the next generation of turbines – longer blades, heavier towers and nacelles, and deeper vessel drafts at the quayside. These design factors also align well with floating offshore wind concepts positioning the port to support New York's deep-water ambitions outlined in NYSEERDA's Master Wind Plan 2.0.



Attentive Energy’s Economic Benefits Philosophy

On the Ground Efforts Advancing Project Decisions

Attentive Energy recognizes that New York State is no place for a one-size-fits-all approach to economic development and has conducted years of diligent research to understand the needs of the workers, businesses, and communities that keep the State’s economy moving. Through consistent engagement with frontline communities, industry groups, and regional partners, Attentive Energy has built a reputation as a meaningful contributor to New York’s offshore wind industry and has gained invaluable insight that forms the foundation for the Project’s investment programs.

Beginning in 2021, Attentive Energy launched an on-the-ground campaign to formalize a framework for its investment programs. Through several workshops, the team generated and prioritized a set of meaningful initiatives and community partners that would deliver maximum impacts. Attentive Energy synthesized these ideas to benefit various community priorities and geographic regions throughout the State, focused on leveraging existing investments in New York and filling important gaps. This portfolio of initiatives is proposed as part of the Lasting Legacy and Community Commitment investment programs.



At the local level, Sponsor Rise has formed **trusted relationships with the community neighboring the Ravenswood facility** that are unprecedented for the utility industry. This experience, including ongoing collaboration with non-governmental organizations, organized labor, educational institutions, and residents' associations has generated a unique familiarity with the needs and aspirations of the local community.



As a unified team, Attentive Energy has worked to blend a statewide perspective with the goals of producing tangible local results and **maximizing opportunities for Disadvantaged Communities**. The resulting investment programs will serve a broad variety of New Yorkers while targeting resources to achieve maximum impact.



Practices for Identifying Community Partners

Attentive Energy has performed due diligence to ensure that its investments lead to sustainable, high-impact benefits to communities. Ninety six percent of Attentive Energy's Community Commitment investment program goes towards Disadvantaged Communities (for both interim and CJWG definitions), far exceeding the Climate Act's forty percent goal. The investment program was informed by real discussions with stakeholders over the past several years, and prioritizes several approaches:

1. **Partner readiness:** Ensuring partners have the institutional infrastructure to deploy funds and are prepared to effectively manage programs and reporting,
2. **Right-sizing investments:** Budgeting initiative investments based on the stated needs of these partners and maximizing the utility and impact of dollars spent and benefits created,
3. **Last piece of the pie:** Seeking initiatives where the Project can provide the last tranche of required funding to kickstart or expand a promising and value-aligned initiative, and
4. **Building upon a solid foundation:** Avoiding duplication of efforts or initiatives proposed by others, or initiatives that are already contemplated and addressed by state/federal grant programs.

As a result of these efforts, the Project offers a portfolio of economic benefits that are targeted, advanced, and tailored to key New York communities. These benefits target communities' needs and industry's existing gaps while prioritizing investments and partnerships that will be most impactful. Ultimately, Attentive Energy proposes to maximize value to New York by leveraging its deep relationships with trusted partners who will ensure the successful delivery of opportunities to New York State, for this Project and beyond.

\$192 Million Fund to Create a Generational Opportunity

Attentive Energy proposes a \$192 million fund that to unlock meaningful and measurable outcomes throughout New York State that will protect the State's precious biodiversity and demonstrably advance an equitable offshore wind industry that provides economic opportunities, including in Disadvantaged Communities throughout all of New York State. The financial resources that will be provided through these trust funds also enable the realization of both new initiatives as well as an expansion of funding that has been made available through previously established funding mechanisms that share similar objectives. Attentive Energy recognizes that the success of this fund, in addition to the success of Attentive Energy's other investments, is directly related to ensuring that stakeholders have an active and meaningful role in selecting the trustees and administrators that will be responsible for defining objectives and managing the trusts that are established. Attentive Energy envisions that the details of the trusts' governance will be the outcome of a collaborative process among itself, NYSERDA and other relevant state agencies, and stakeholders who have experience and expertise in both subject matters and governance.

The proposed \$192 million fund will be divided into economic development and environmental funds. The funds will be stewarded over the course of the Project's 25-year contract tenor by non-profit advisors who will be identified through a competitive process and based on stakeholder feedback and perceived needs. The fund is designed to be flexible to adjust and adapt to the needs, timing, and priorities of stakeholders throughout the Project's contract term.

Resources in the economic development fund would be allocated to such initiatives as:

1. Workforce development, job readiness services, and scholarship funds to support the green economy, with particular focus on Disadvantaged Communities,
2. Capital investments in Disadvantaged Communities that address historic environmental injustice and other inequities, and
3. Support for small businesses, particularly MWBEs and SDVOBs, looking to make investments in order to enter the offshore wind supply chain.

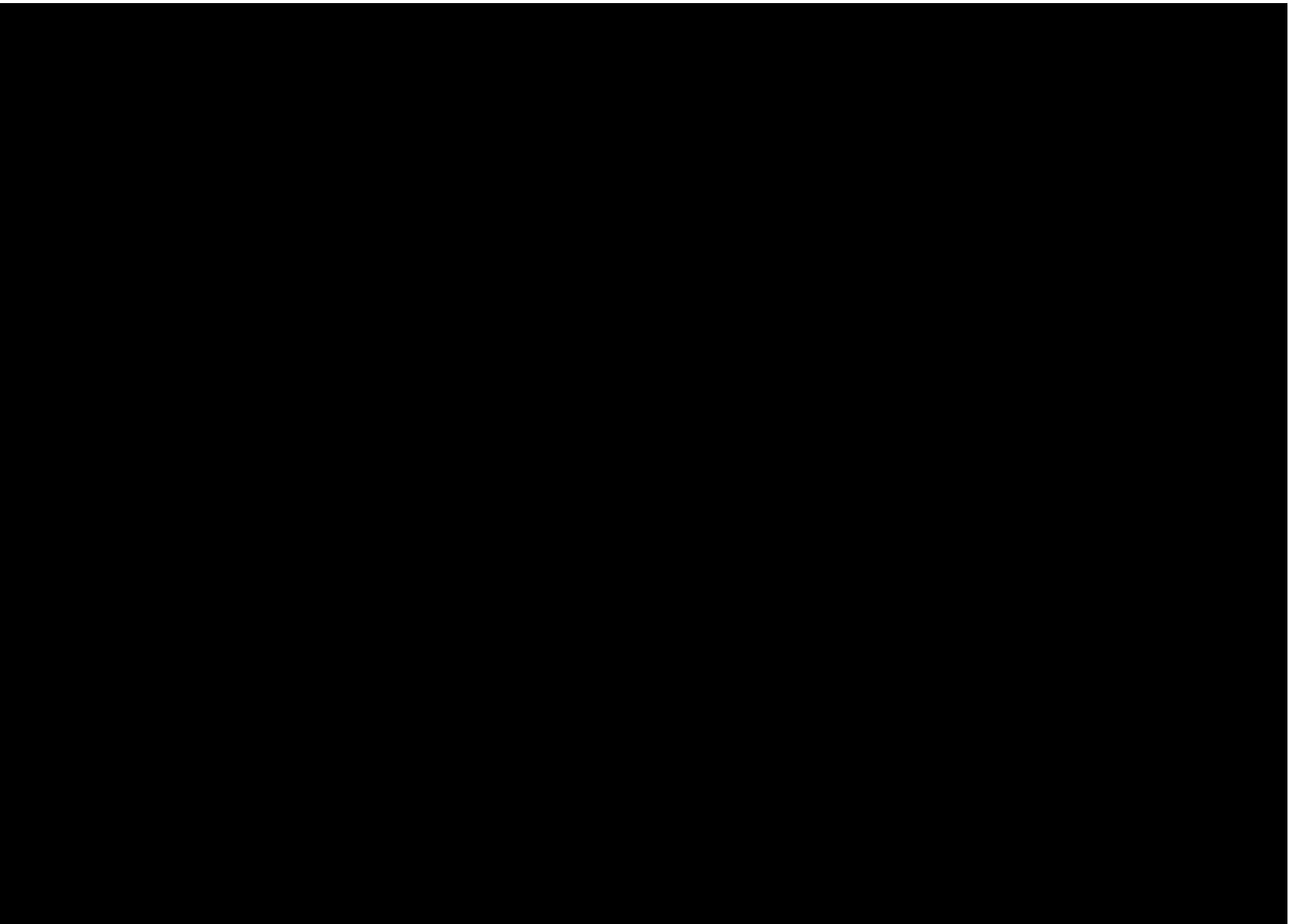
Resources in the environmental fund would be allocated to such initiatives as:

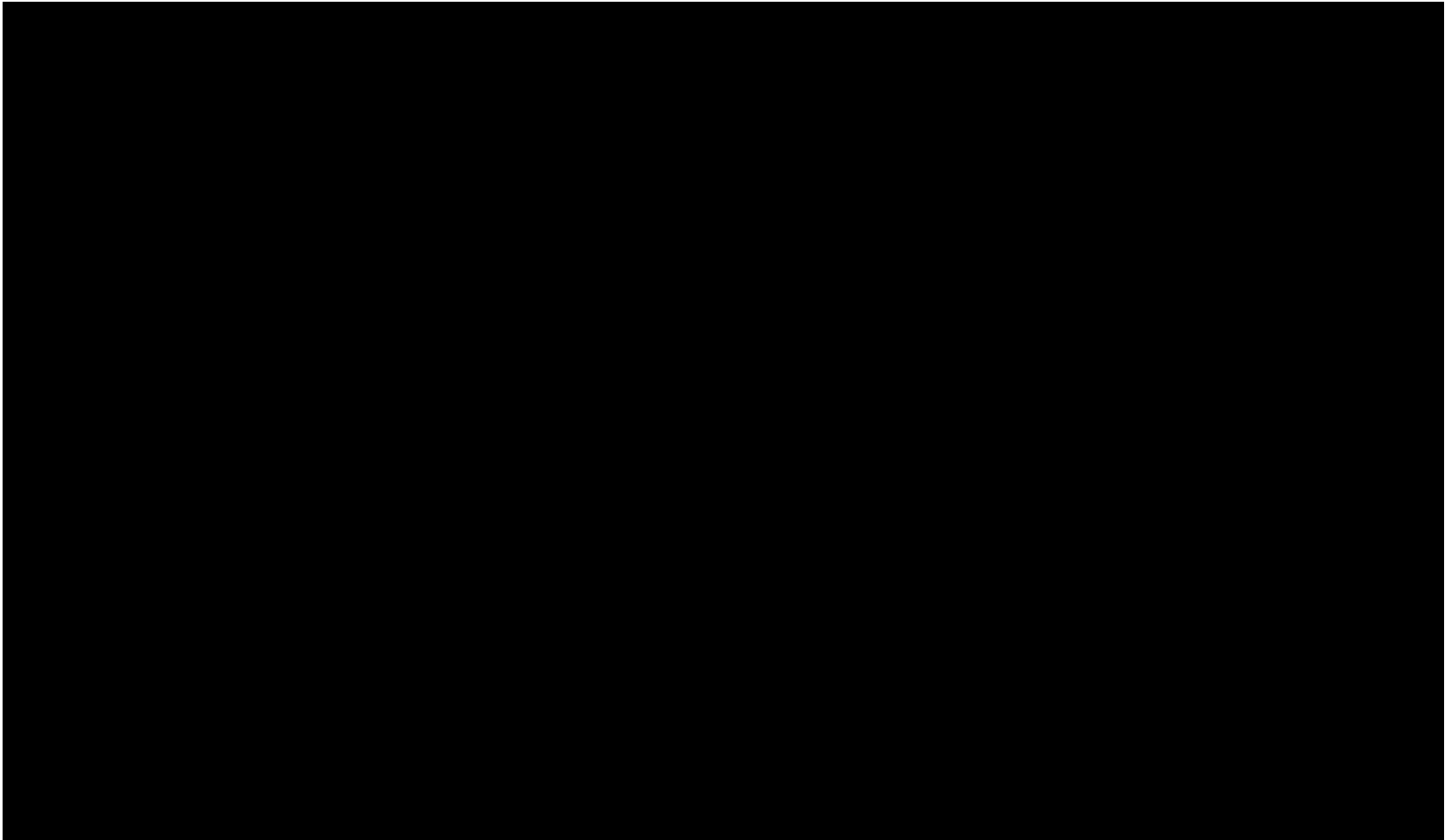
1. Conserving endangered marine wildlife, such as the North Atlantic right whale,
2. Coastal habitat restoration to increase resiliency and address declining species,
3. Conserving avian and bat species through increased monitoring and targeted habitat restoration, and
4. Environmental education and increasing waterfront access.

\$78 Million of Community Investments

Through the Lasting Legacy and Community Commitment investment programs, Attentive Energy is offering a \$78 million portfolio of investments and partnerships that are targeted, advanced, and tailored to New York communities. Of this, \$62 million is targeted towards workforce development programs as part of Attentive Energy's Jobs & Workforce Plan (discussed in more detail below) and \$75 million will serve Disadvantaged Communities. That \$75 million represents nearly 96% of the entire Community Commitment investment program and was structured to exceed the 40% Climate Act goal for accruing benefits to Disadvantaged Communities. Attentive Energy has set a standard that is matched to the enormity of the challenges themselves.

Table 19-7 identifies each of the tailored community investments, and Attachment 19-E provides the term sheets and letters of intent associated with various partnerships. These partnerships are directly responsive to community needs and the industry's existing gaps, while prioritizing programs and partnerships that will be most impactful. Ultimately, there is value in building and fostering relationships with trusted partners who will ensure the successful delivery of opportunities to New York State, for this Project and beyond.





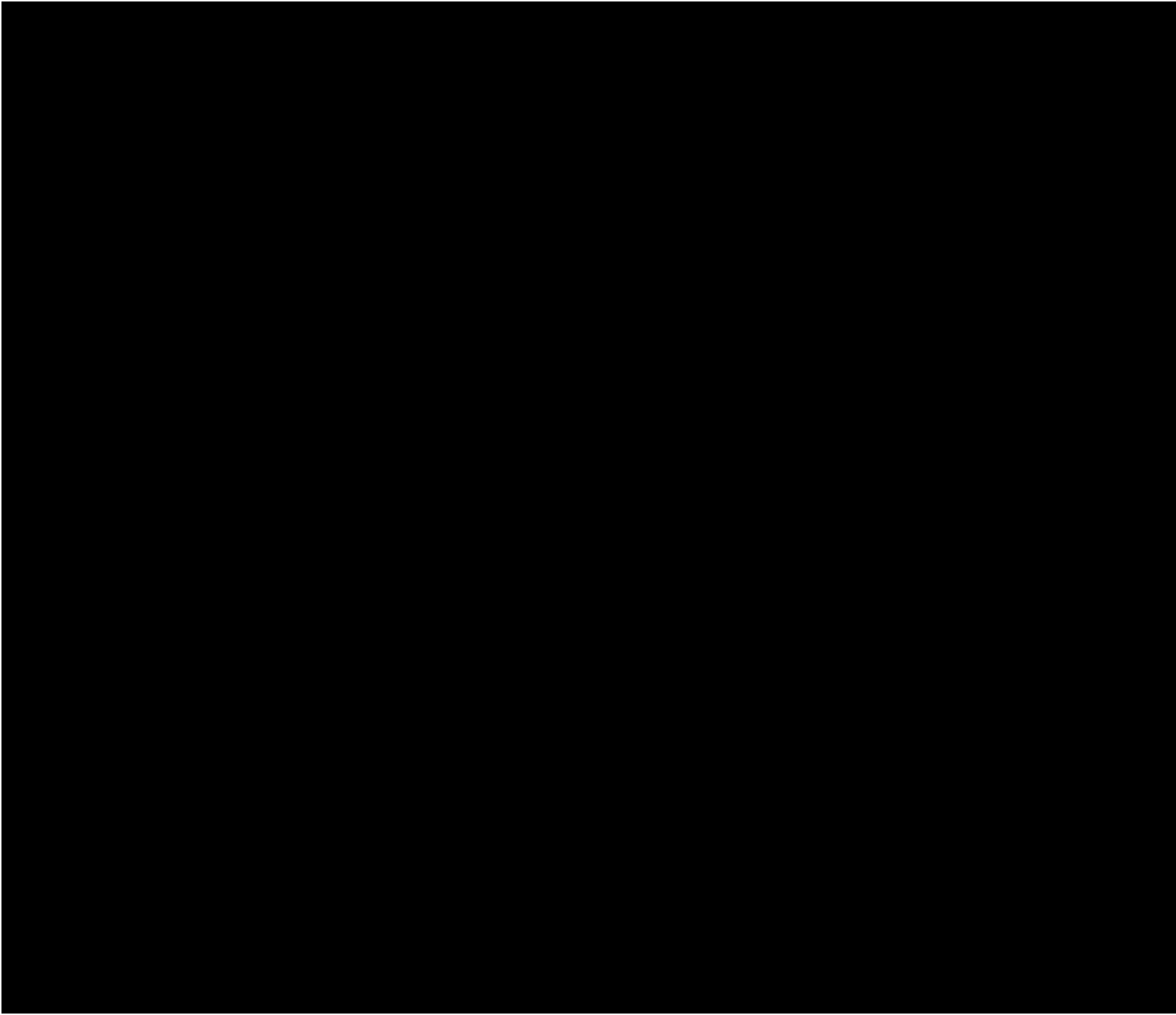
\$30 Million Contribution to Environmental and Fisheries Research and Monitoring

Throughout its 25-year contract tenor, this Project aims to achieve no net loss of biodiversity and no net loss of revenue to commercial fishermen. To advance this goal, the Sponsors have committed to implementing an innovative \$30 million environmental research and mitigation program designed to develop baseline data and mitigate impacts from Project activities.



Substantiating Project Benefits





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SECTION 20

ENERGY STORAGE

Attentive Energy is not offering an Energy Storage Alternative.



SECTION 21

REDUCING CARBON EMISSIONS AND EMBODIED CARBON



Section 21 Table of Acronyms

Climate Act	Climate Leadership and Community Protection Act of 2019
CO₂	Carbon Dioxide
CO₂e	Carbon Dioxide Equivalent
COPD	Chronic Obstructive Pulmonary Disease
CRIS	Capacity Resource Interconnection Service
CTV	Crew Transfer Vessel
ED	Emergency Department
EIA	Environmental Impact Assessment
EJ	Environmental Justice
GHG	Greenhouse Gas
GW	Gigawatt
GWh	Gigawatt Hour
GWP	Global Warming Potentials
HVDC	High Voltage Direct Current
INNWIND	Innovation Wind
IPCC	Intergovernmental Panel on Climate Change
LCA	Life Cycle Assessment
m	Meters
MBES	Multibeam Echosounder
MI	Myocardial Infarction
MW	Megawatt
NREL	National Renewable Energy Laboratory
NYPA	New York Power Authority
NYSDEC	New York State Department of Environmental Conservation
O&M	Operations & Maintenance
OEM	Original Equipment Manufacturer

PM	Particulate Matter
RWSC	Regional Wildlife Science Collaborative for Offshore Wind
SC-CO₂	Social Cost of Carbon
SDG7	Sustainable Development Goal 7: "Ensure access to affordable, reliable, sustainable and modern energy for all."
USD	U.S. Dollar
USV	Uncrewed Surface Vessel
WTG	Wind Turbine Generator

21. REDUCING CARBON EMISSIONS AND EMBODIED CARBON

Attentive Energy is proud to support the nation-leading goals set by New York State's Climate Act. The Climate Act calls for an 85% reduction in emissions below 1990 levels by 2050, with 100% zero-emissions electricity secured by 2040. With broader U.S. targets of 35 GW of fixed offshore wind by 2030 and 15 GW of floating offshore wind by 2035, New York is positioned to serve as the cornerstone of the U.S.' renewable energy market. With plans to be operational in 2029, Attentive Energy's proposed 1,404 MW Project is positioned to contribute at least 15% of the 9,000 MW offshore wind capacity goal the State has set for 2035.

Attentive Energy's carbon analysis shows that the Project will provide a net saving of 33.2 million tons of CO₂ emissions across the life of the Project.



Current emissions forecast data is provisional and will be subject to a full LCA and detailed CO₂ accounting as the Project progresses. Additionally, Attentive Energy will actively work with supply chain providers and contractors to optimize and manage CO₂ savings throughout the development of the Project. The information detailed in this Section fully outlines how the Project serves as an example of responsible industry development, demonstrating that the integration of renewable energy and smart energy infrastructure provides a thoughtful solution to managing energy security and climate issues in the coming decades.

CO₂ Assessment Scope

This Section considers both activities relating to emissions and embodied carbon from offshore construction and operations, and also those from onshore construction and operations associated with the Ravenswood O&M Hub and converter station. Additionally, calculated CO₂ emissions avoided takes into account the fossil repurposing initiative, which includes the retirement of one nameplate 400 MW fossil generating unit at Ravenswood.



There are a broad variety of terms used to describe emissions categories and types throughout offshore wind and other industries. For example, Sponsor TotalEnergies' corporate reporting system closely follows the international GHG Protocol, which considers Scope 1 emissions as direct emissions generated by company-owned vehicles and facilities, Scope 2 emissions to be indirect emissions from purchased electricity, and Scope 3 emissions to be indirect and linked to the customers use of the energy produced. The term "indirect" refers to the CO₂e, or carbon emissions equivalent, of embodied carbon for resources used in the materials, services, and transportation provided by other companies and subcontractors) or downstream activities (such as the usage, processing, and distribution of sold products to those end users). For the purpose of this Section, the term "direct" will be used to refer to carbon emissions generated by fuel and energy used in all activities related to the development, construction, operation and maintenance of the Offshore Wind Generating Facility, Transmission Facility and Ravenswood O&M Hub as well as the initial decommissioning of specific areas of Ravenswood and decommissioning of the Offshore Wind Farm, export and array cables at end of project life.

Embodied Carbon and CO₂ Emissions Reduction

Embodied Carbon Reduction

For the purpose of this assessment, “Embodied Carbon” refers to all indirect CO₂e emissions from the materials used in the construction of the offshore wind farm, cables and associated specified onshore facilities. Within this scope, there are several key areas with the potential for large emissions reductions at various points in the supply chain. Globally, the topic of low-carbon intensity steel, concrete, and cables are focal areas for many industries, including sustainable construction for onshore sectors as well as offshore wind.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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Carbon Emissions Reduction

For the purpose of this assessment, the term “Carbon Emissions” includes all direct CO₂e emissions from transportation (survey, construction, O&M, and decommissioning) and offshore electricity generation. There is the potential for key emissions reduction strategies in this category via the Fossil Repurposing Proposal, and through continued engineering/operational strategies and integration of Nature-Based Solutions.

Fossil Repurposing Proposal

[REDACTED]

The Project will have large-scale positive impacts for the local communities, increasing local air quality and providing broader access to reliable clean energy. With increasing frequency and intensity of inclement heat events, as well as historical exposure to heightened air pollution, the Project represents a renewed commitment to environmental justice and the establishment of a clean and reliable energy regime.

Engineering / Operational Strategies

[REDACTED]

The Project has already deployed initiatives to reduce vessel carbon emissions and decrease risk during initial geophysical surveys. To this end, instead of deploying traditional large-scale survey vessels, the team has recently deployed XOcean USVs to gather seabed geophysical data. Lightweight USVs such as these have a much smaller carbon footprint than traditional large-scale survey vessels, which often need to be outfitted with many crew members, duplicates of equipment, and the associated materials needed to support the survey team. The XOcean USV is equipped with a solar deck and hybrid power system, enabling it to run largely on renewable energy.

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The Project has already deployed initiatives to reduce vessel carbon emissions and decrease risk during initial geophysical surveys.

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Nature-Based Solutions

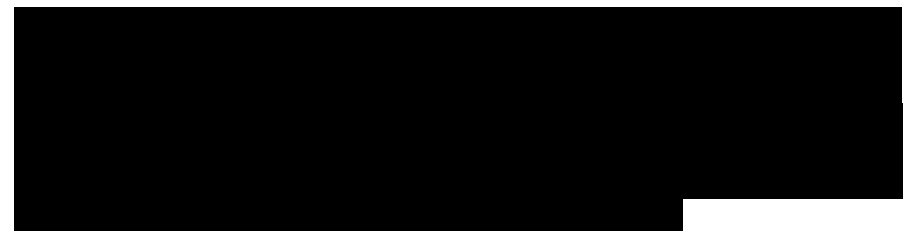
Attentive Energy is also actively engaged in supporting and exploring possible Nature-Based Solutions to address construction-related emissions and to augment coastal resiliency.

Natural carbon stores can include tropical rainforests, saltwater marshes, mangroves, eelgrass beds, and oyster reefs. The loss and degradation of such systems due to human activity risks releasing stored CO₂ and compromising associated ecosystem services. Nature-based solutions seek to protect, manage, and restore these ecosystems, concurrently enhancing other ecosystem services. Attentive Energy has a strong focus on enhancing and conserving oyster reefs and salt-marsh habitat in or near the Project Area as a key tool in the Nature-based solutions program.

Oysters are bivalves which draw down atmospheric CO₂ by filtering planktonic primary producers out of the water column and depositing the sediment outfall. Over time, generations of oysters settle, reproduce, and grow on top of one another, thereby contributing to reef formation. The conservation of existing reefs does limit the release of long-term sequestered carbon while reef creation enhances biodiversity, water quality, and fish production.

The New York Harbor area has seen a near-complete loss of its oyster reef (and wider marine) ecosystems. Home to more than 220,000 acres of oyster reefs in the early 1600s, the final commercial oyster bed closed in 1927. The increasing population of the city has resulted in significant impacts on the marine environment.

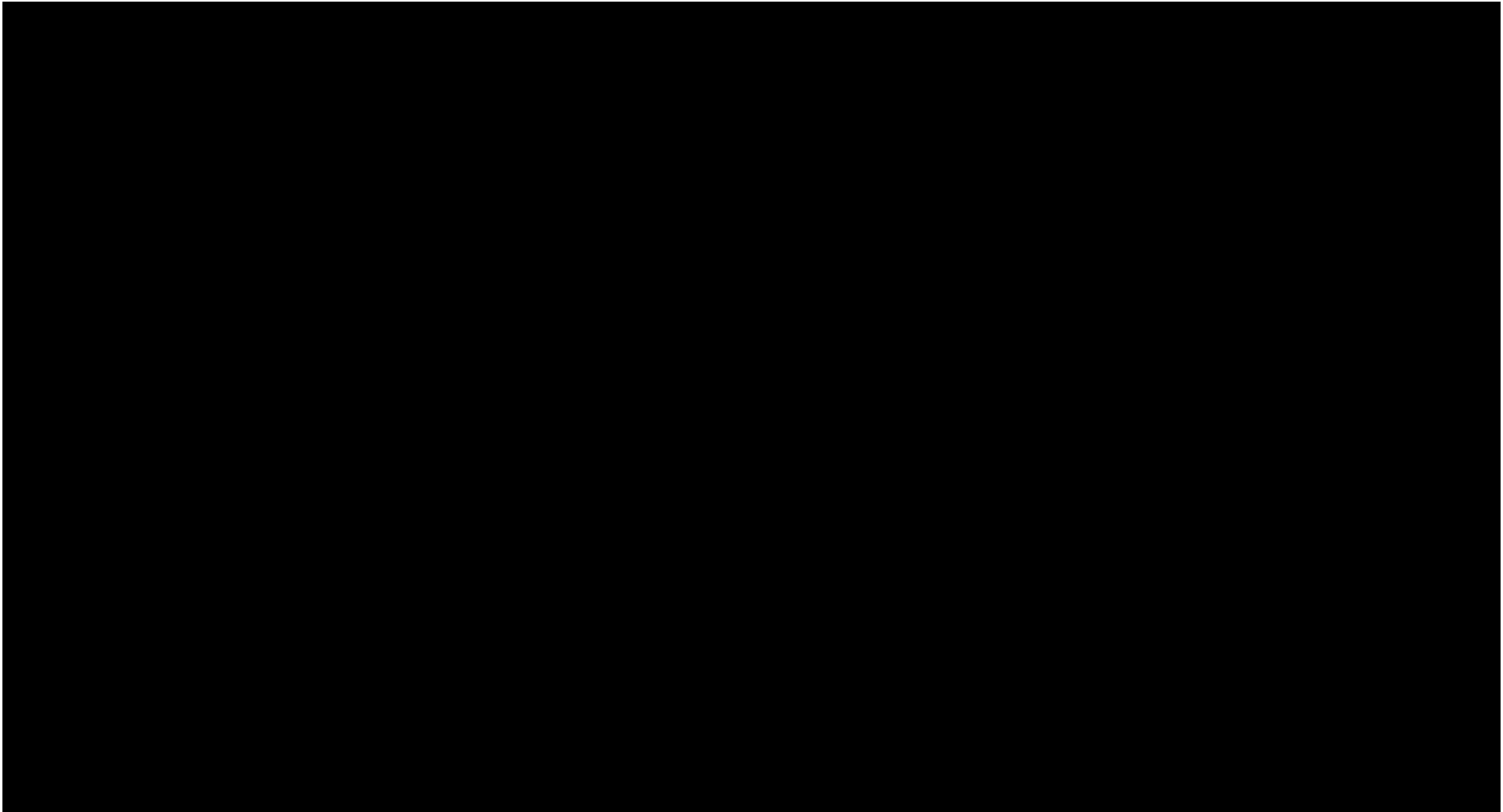
Since the adoption of the Clean Water Act in 1972 and the resulting slow improvement in New York Harbor's water quality, there has been growing interest in restoring and reseeded oyster reefs in the area.



CO₂e Calculations: Methodology, Assumptions, and Sources

During the Project's development phase, Attentive Energy will procure contracts with OEMs and various suppliers, as well as engage with potential community or research partners, which may provide the opportunity to reduce the overall emissions and embodied carbon inventory. Due to this early stage of design and development, there remain several unknowns for the Project scope that the coming months and years will resolve. Attentive Energy has incorporated industry best practices and offshore wind data from previous projects to approximate the carbon emissions and embodied carbon associated with the Project. Table 21-1 below outlines some key assumptions and relevant sources.

The initial high-level calculations largely focus on the offshore development, given the greater detail available for site location and characteristics compared to the remaining unknowns tied to the onshore decommissioning, material sourcing and construction activities. Attentive Energy will produce detailed calculations encompassing both onshore emissions and embodied



carbon, and a more detailed offshore assessment following completion of further Project development and procurement work.

The Global Warming Potentials from the sixth and most recent IPCC Report¹ have been used in the calculations presented in this report to maintain consistency with the latest scientific consensus. The CO_{2e} intensity used for displaced GHG emissions is 477 t/GWh, based on the 2020 data for electricity generation and associated emissions from coal, natural gas and petroleum used to generate electricity in New York State.

During engineering, but prior to manufacturing, Attentive Energy will update the initial carbon assessment provided by carrying out a more thorough quantitative carbon Life Cycle Assessment of every Project element when detailed design and planning is available. The resulting detailed baseline will provide an estimate against which post-construction

verification can be conducted. This process will also serve to emphasize those particularly carbon-intensive areas and provide opportunities to investigate additional carbon designs or strategies to improve Project carbon reduction and carbon savings. The initial carbon emissions and embodied carbon analysis therefore form the basis on which the more detailed quantitative carbon Life Cycle Assessment can be used to embed emissions reduction opportunity management in the Project design process (Figure 21-1).

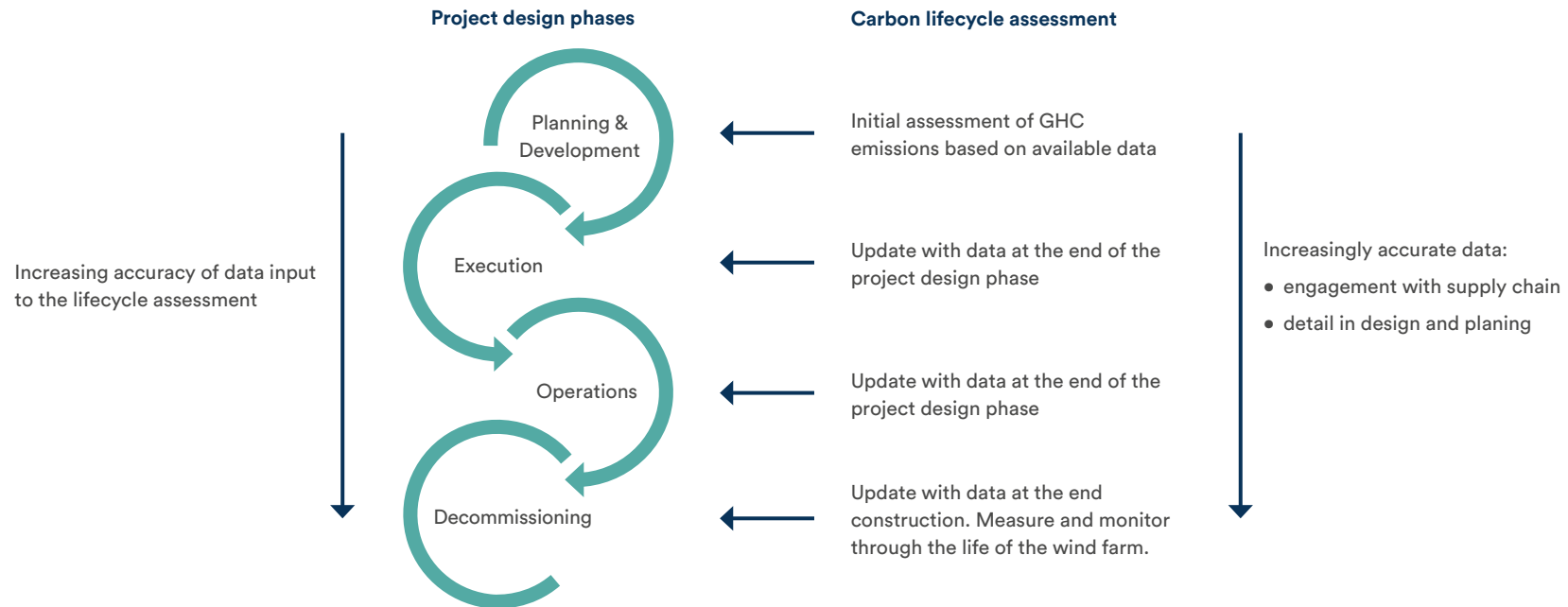


Figure 21-1 Emissions Quantification Process.

1 Technical Summary. [H.-O. Pörtner, D.C. Roberts, E.S. Poloczanska, K. Mintenbeck, M. Tignor, A. Alegría, M. Craig, S. Langsdorf, S. Löschke, V. Möller, A. Okem (eds.)]. In: Climate Change 2022: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [H.-O. Pörtner, D.C. Roberts, M. Tignor, E.S. Poloczanska, K. Mintenbeck, A. Alegría, M. Craig, S. Langsdorf, S. Löschke, V. Möller, A. Okem, B. Rama (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY, USA, pp. 37–118, doi:10.1017/9781009325844.002.

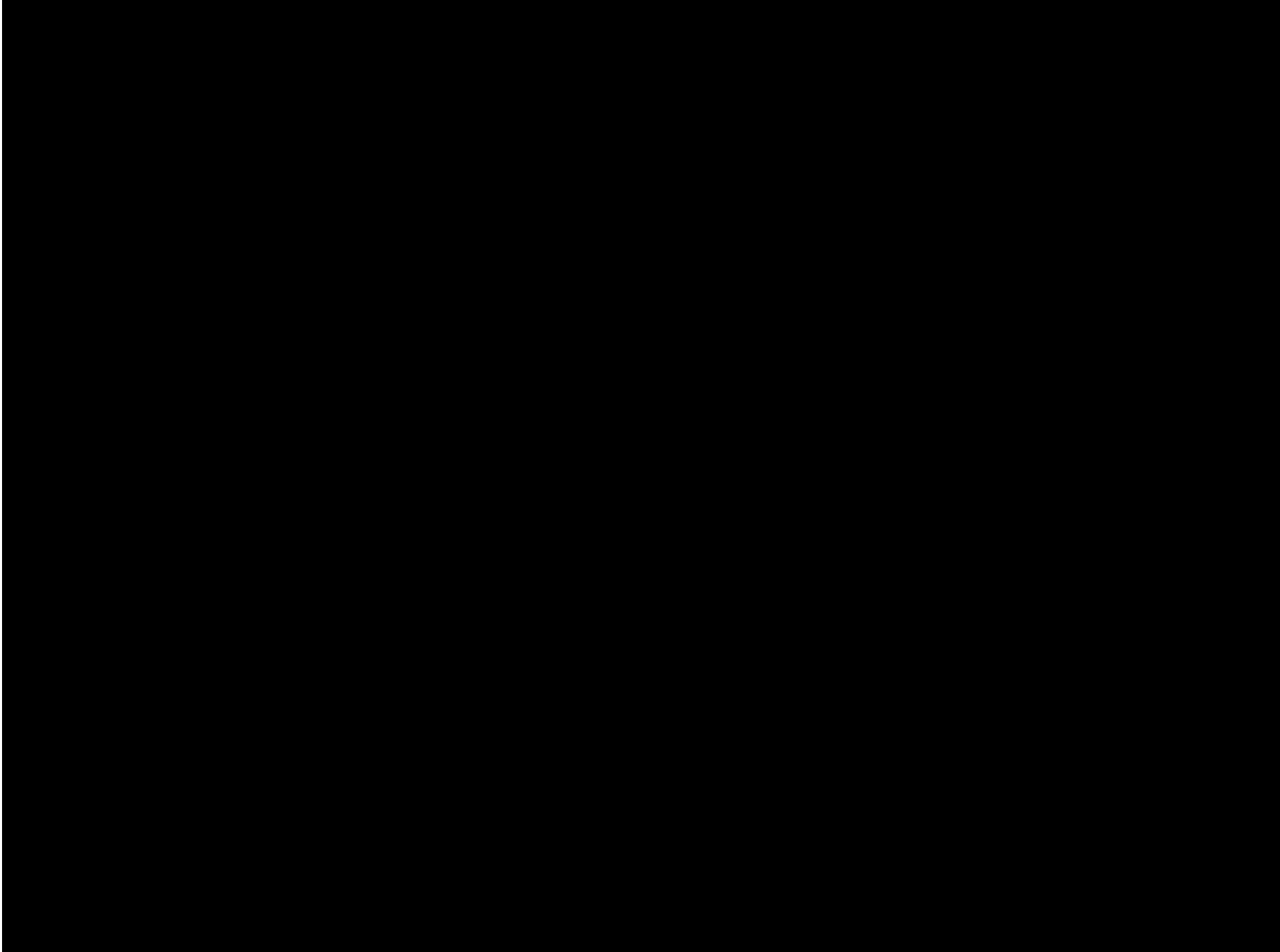
Emissions and Embodied Carbon Analysis and Results

[Redacted]

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[Redacted]

[Redacted]



Emissions Monitoring and Verification

During and after construction of the Project, Attentive Energy will conduct ongoing monitoring and verification for the carbon emissions and embodied carbon. Attentive Energy will monitor carbon emissions and embodied carbon through supply chain reporting requirements during fabrication and construction to provide verification of the estimates and demonstrate good governance and assurance in emissions management. The performance reporting process will serve two key purposes: (1) it will allow for greater transparency in the industry, providing comparable numbers which benchmark the Project against other similar developments and (2) it will provide a measured baseline against which the Project can monitor progress towards its carbon-related commitments. Final emissions verification, which Attentive Energy may perform in house, will be reviewed by a third-party consultant for confirmation of methodology, outputs, and objective feedback.

Attentive Energy will incorporate performance measurement, monitoring and reporting of carbon emissions into the supply chain process through the following measures (Figure 21-4):

- Attentive Energy will set clear roles and responsibilities within its team and the different tiers of its contractors in relation to quality reporting and management of carbon-related data. It will establish roles, responsibilities, and reporting requirements at the outset of contracts to ensure reporting and management inherent to scopes.

During and after construction of the Project, Attentive Energy will conduct ongoing monitoring and verification for the carbon emissions and embodied carbon. Attentive Energy will monitor carbon emissions and embodied carbon through supply chain reporting requirements during fabrication and construction to provide verification of the estimates and demonstrate good governance and assurance in emissions management.

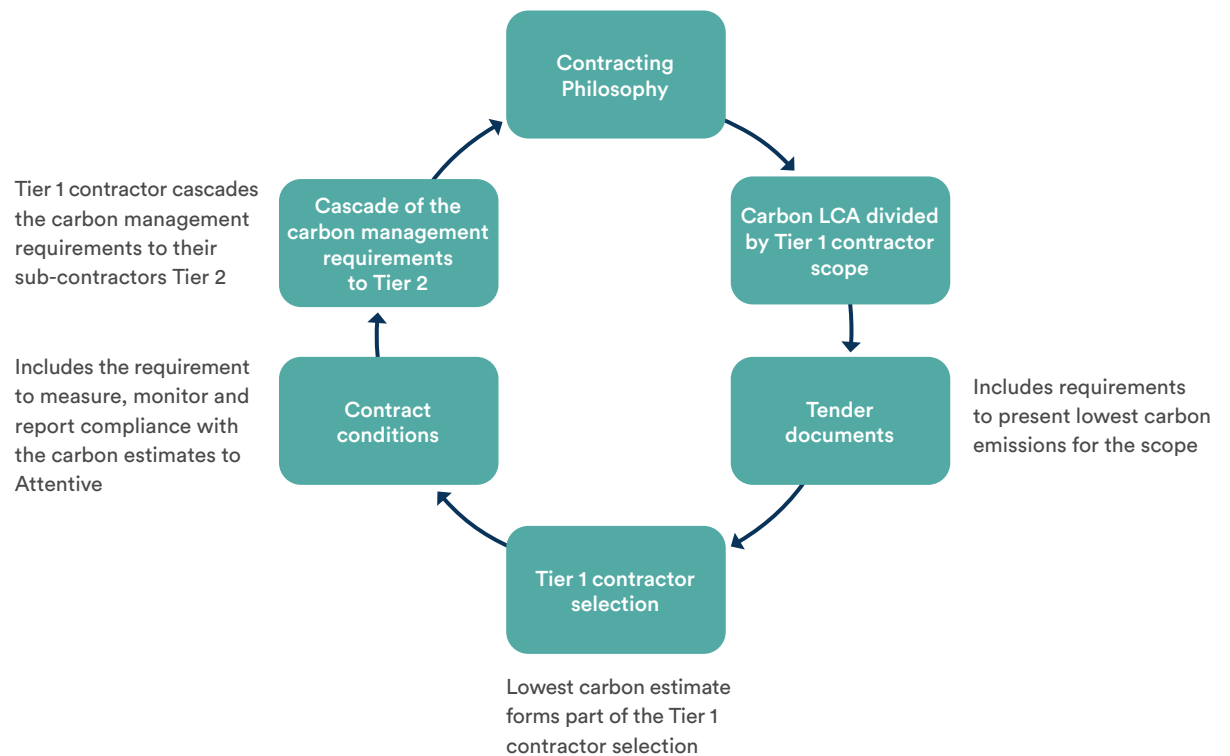


Figure 21-4 Carbon measurement and monitoring embedded in the supply chain process.

- Establish the reporting processes with the contractors which will be supported by documented processes regarding methods of calculation, conversion factors, and more to ensure consistency. They will carry out assurances through data input checks and analysis of data trends, which will link to the Project audit schedule.
- As part of the verification process, Attentive Energy will establish a materiality threshold to ensure focusing verification on the most significant contributors to the overall carbon footprint of the Project. Attentive Energy will carry out and discuss identification and mitigation of the key risks to the production of timely, accurate, and verifiable carbon data with the contractors to ensure timely delivery of quality data.
- Standard contracting processes of tender, selection, contract award, and management will implement the emissions management requirements for the Tier 1 contractors, that include the emissions through the supply chain top-down through the contractors' supply chain processes.
- An online software tool may potentially be used to allow ease of reporting through the supply chain, encouraging management of data to the highest data quality practicable while providing transparency and auditability in data management. Automation of performance data will allow Attentive Energy to track, report, and verify emissions and delivery of the commitments.

Benefits to New York State



Attentive Energy further cements its commitments to the State by investing in strong governance and emissions reporting methodologies. As described, Attentive Energy will conduct a thorough top-to-bottom carbon

accounting during activities and upon completion and will be requiring its suppliers to hold themselves to the same high standards for emissions tracking and mitigation efforts. Throughout the Project lifetime, as the industry makes available efficiencies more broadly, Attentive Energy will incorporate wherever appropriate to ensure that the Project remains on the cutting edge of clean energy technology and sustainable governance. In driving such changes for the Project, Attentive Energy hopes that the ethos of these operating procedures will permeate the supply chain and stakeholder network more broadly, positively impacting adjacent industries and ensuring that the benefit of the Project goes far beyond its physical boundaries.

New York State has some of the strongest commitments to energy security, sustainability, and human health in the nation. Attentive Energy aspires to follow the State's example and be a partner to New York as it realizes dramatic emissions reductions in the coming decades.



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