NYSERDA 2024 OFFSHORE WIND SOLICITATION ORECRFP24 -1

Community Offshore Wind Application

Public Version

COMMUNITY offshore wind
local clean energy for all

5 Project Schedule and Status

NYSERDA 2024 Offshore Wind Solicitation ORECRFP24-1

September 9, 2024

5 Project Schedule and Status

1 Table of contents

2 List of tables

3 List of figures

4 List of attachments

List of acronyms and abbreviations

Abbreviation	Explanation
[redacted]	[redacted]
BOEM	Bureau of Ocean Energy Management
CECPN	Certificate of Environmental Compatibility and Public Need
COD	Commercial operation date: The date upon which the Project or a phase of the Project enters Commercial Operation as defined by the ORECRFP24-1 Standard Form Offshore Wind Renewable Energy Certificate Purchase and Sale Agreement
[redacted]	[redacted]
COP	Construction and Operations Plan
CRA	Capacity reservation agreement
EIS	Environmental Impact Statement
EPCI	Engineering, Procurement, Construction, and Installation
FEED	Front-end engineering design
FID	Final investment decision
FNTP	Final Notice to Proceed
HVDC	High-voltage direct current
IAC	Inter-array cable
NEPA	National Environmental Policy Act
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NYISO	New York Independent System Operator
NYS	New York State
OCP	Offshore converter platform
OCS	Onshore converter station
OEM	Original equipment manufacturer
PEIS	Programmatic Environmental Impact Statement
POI	Point of interconnection
PSA	Preferred Supplier Agreement
ROD	Record of Decision
TSA	Turbine Supply Agreement
WTG	Wind turbine generator

NYSERDA solicitation requirements

Our project schedule and status address each requirement described in NYSERDA's fifth solicitation for offshore wind energy (ORECRFP24-1).

Table 5-1 Solicitation requirements

Solicitation requirement	Section
Proposers must demonstrate that the Project can reasonably be permitted, developed, financed, and constructed within a commercially reasonable timeframe consistent with the proposed Project schedule	5.1
The Commercial Operation Date(s) must be clearly stated in this section and consistent across the Submission	5.3
Proposer is required to provide sufficient information and documentation showing that Proposer's resources, process, and schedule are adequate for the acquisition of all rights, permits, and approvals for the financing of the Project consistent with the proposed milestone dates that support the proposed Commercial Operation Date(s)	5.2, 5.3
Proposers must submit reasonable milestones that are achievable, thereby placing the Project on an achievable milestone schedule to support the proposed Commercial Operation Date(s)	5.3, 5.4
Proposers are required to provide a complete critical path schedule for the Project from the notice of award to the proposed Commercial Operation Date(s)	5.3
Provide a detailed Gantt chart equivalent in a Microsoft Project .mpp file or Microsoft Excel .xlsx file	Attach. 5-2
For each Project element listed below, provide the start and end dates and include the following:	5.3, 5.4
Identify the critical path. The schedule should include, at a minimum, the tasks associated with preliminary engineering, financing, acquisition of real property rights, Federal, state and/or local permits, licenses, environmental assessments and/or environmental impact statements (including anticipated permit submittal and approval dates), completion of interconnection studies and approvals culminating in the execution of the NYISO Interconnection Service Agreement, financial close, procurement of engineer/procure/construct contracts, detailed engineering design, procurement of wind turbine generators, monopile, substation equipment and offshore and onshore cabling, start of construction, offshore and onshore construction, including foundation installation, turbine erection, offshore and onshore substation construction, commissioning and any other requirements that could influence the Project schedule	5.3, 5.4
Describe the anticipated permissible offshore construction windows, and how the construction milestones will be accommodated within these windows.	5.5
Detail the status of all critical path items, such as receipt of all necessary siting, environmental, and NYISO approvals	5.3

Provide a detailed plan and timeline for the acquisition of any additional rights necessary for interconnection and for the generator lead line right-of-way	5.3.5
A PDF copy of the Project Schedule file should be appended to the submitted file	Attach. 5-1

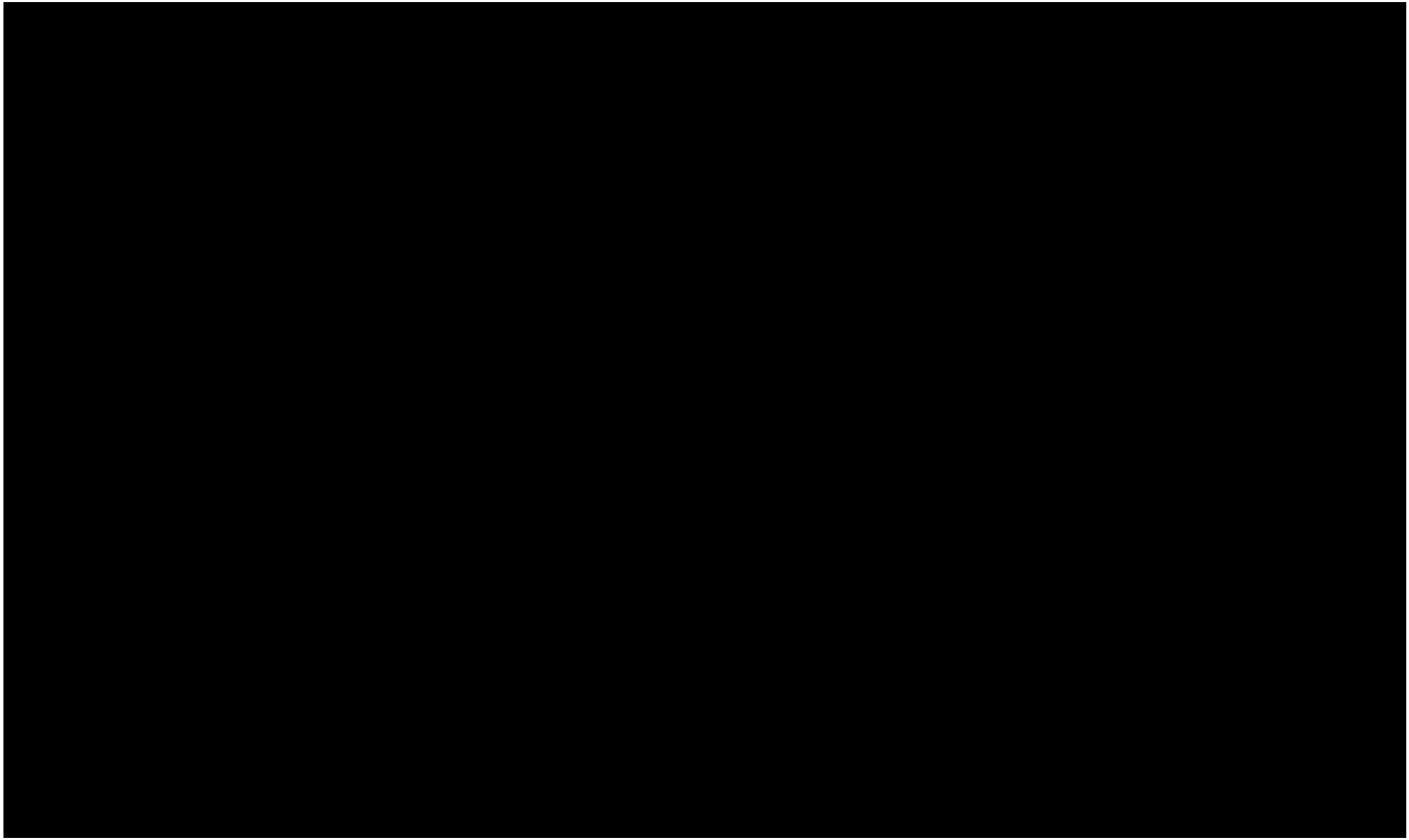
5.1 Summary

Our objective is to accelerate and sustain the offshore wind industry in New York, by delivering our Project on time and without unforeseen complications. Community Offshore Wind recognizes that project scheduling is a critical component to achieving this, and we present in this section our project scheduling and status which highlight our:

- **Highly experienced team leveraging best-in-class planning and methodology:** Our scheduling team is composed of experienced individuals through our parent companies RWE and National Grid, who have advanced over 19 offshore wind farms as well as high-voltage direct current (HVDC) projects to commercial operation. We use this experience to benchmark our project schedule to previous projects and implement lessons learned, resulting in achievable schedules to achieve our proposed commercial operation date (COD).
- **Detailed and achievable project schedule:** Drawing on our extensive project development experience, our team has prepared a detailed and achievable project schedule to help ensure structured, seamless, and on-time project implementation. Our plan considers critical path elements and adjusts for boundary conditions, including adverse weather and vessel speed limits, limiting unforeseen delays. As part of our overall project schedule, we have prepared a design and project timeline that meets the ORECRFP24-1 objectives, including the New York Independent System Operator (NYISO) interconnection process.
- **Progress made toward key milestones, including steps to mitigate delay risks:** We kicked off our Project with the acquisition of our lease area, and we have already completed several site investigation surveys [redacted]

In addition, we are open to exploring with NYSERDA project schedule optimization within New York's offshore wind portfolio.

A high-level summary of the Community Offshore Wind project schedule, [redacted] is provided below in Figure 5-1.



5.2 Experience and methodology

We endeavor to support New York's offshore wind ambition through successful project delivery, leveraging our world-leading experience and best-in-class process and tools.

5.2.1 Project schedule experience, process, and tools

Our project scheduling team from RWE and National Grid is highly experienced in the planning processes required for challenging environments. We have expert knowledge of key interfaces, necessary assumptions, and planning constraints. Our team members leverage experience from planning and executing 19 offshore wind farms and delivering several HVDC interconnectors in the North Sea (see Section 6.1). [redacted]

We have developed a robust and efficient process to confirm our key milestones dates are reasonable. The schedule considers all elements of an achievable schedule and considers the specifics of federal and state permitting as well as joint-venture internal approvals. RWE has successfully led previous offshore wind projects through key scheduling milestones as seen in Table 5-2.

Table 5-2 RWE project examples

Project	Capacity	No. of WTGs	FOU Type	Auction Award	FID	COD	Early DEV to FID	FID to COD
Triton Knoll	857 MW	90	Bottom-fixed	2017	2018	2022	5 years	4 years
Rampion	400 MW	116	Bottom-fixed	2014	2015	2018	5 years	3 years
Nordsee Ost	295 MW	54	Bottom-fixed	n/a	2011	2017	7 years	6 years
Amrumbank West	302 MW	80	Bottom-fixed	n/a	2011	2015	7 years	4 years

5.3 Project schedule and status

Our project schedule builds on our ambition to deliver a world-class offshore wind project to New York. [redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

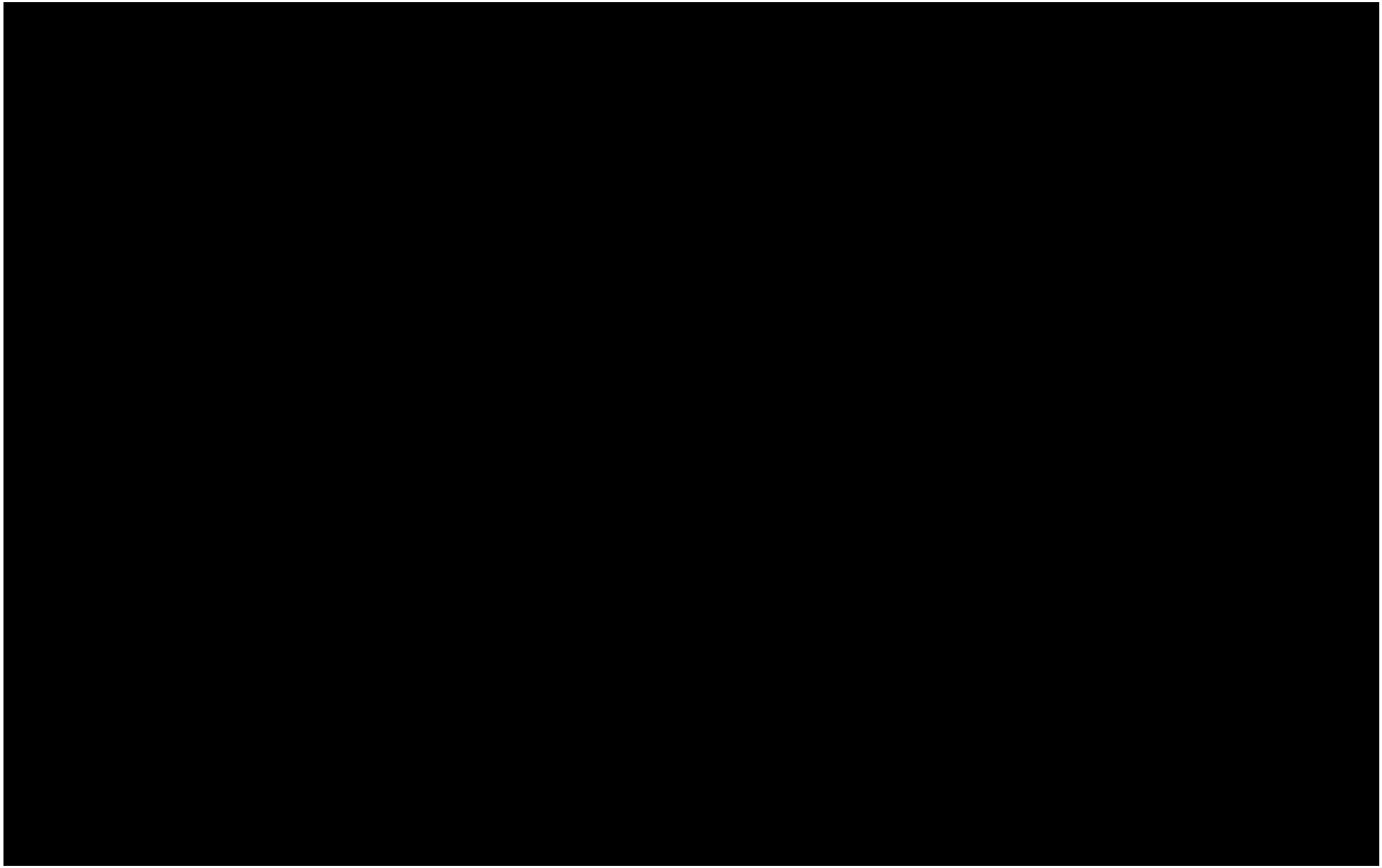
[redacted]

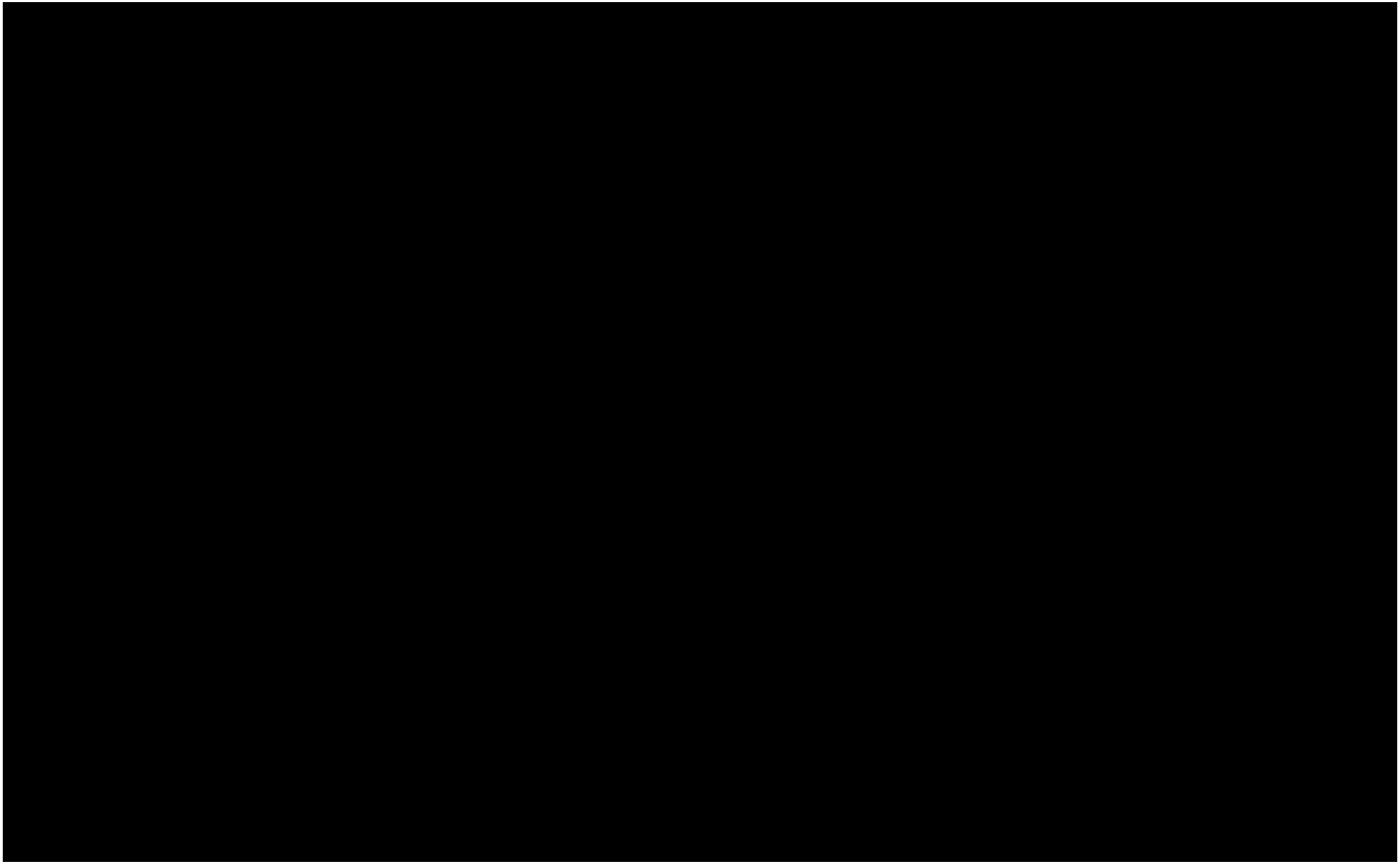
Our implementation plan also takes into account several boundary conditions to uphold responsible development best-practices in our permitting conditions, limit the potential impact on marine species, and account for climate-related risks and equipment conditions.

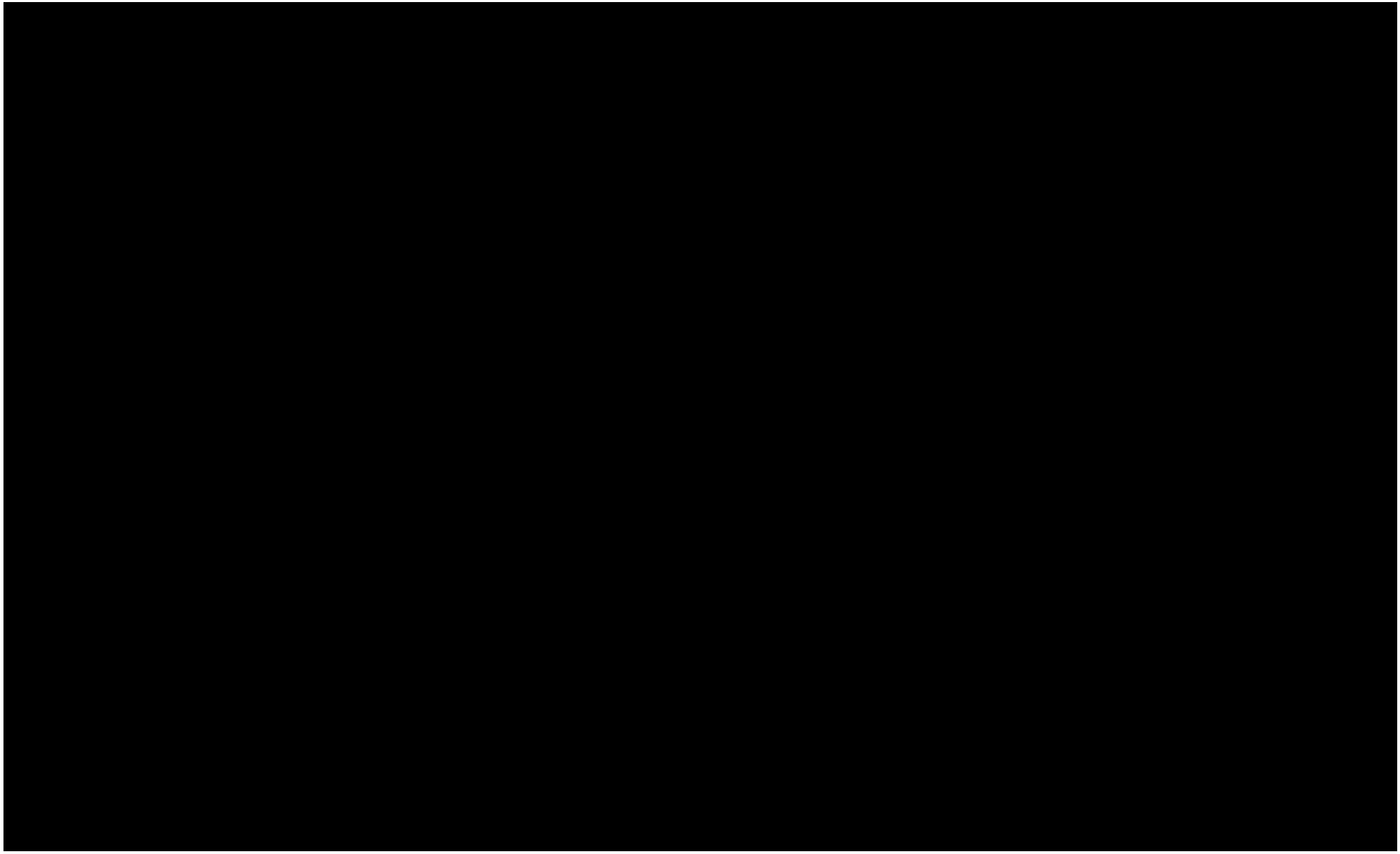
We have also included an overview of the time requirements of major scheduling activities in section 5.5 below. Our master project schedule with our implementation plan and critical path milestones is described in this section and Section 5.4, and in greater detail in the following:

- Attachment 5-1: Detailed project schedule as a PDF
- Attachment 5-2: Detailed project schedule as a Microsoft Excel .xlsx file

[redacted]







We have developed a robust and efficient process for developing and updating the project schedule for Community Offshore Wind. [redacted]

The following sections present a summary of key activities and milestones. [redacted]

5.3.1 Procurement

[redacted]

5.3.2 Engineering and design

[redacted]

[redacted]

5.3.3 Financing

[redacted]

5.3.4 Permits and licenses

Our lease area OCS-A 0539 was awarded from the Bureau of Ocean Energy Management (BOEM) in Q2 2022. [redacted]

The critical elements associated with the environmental review process include the submission of the COP to BOEM, compliance with NEPA through the initiation of our project's individual environmental impact statement (EIS) and subsequent ROD, and completion of New York States specific requirements including Article VII approval [redacted] See Section 6.2 for additional information on our Project's permitting plan.

5.3.5 Interconnection rights and generator lead line rights-of-way

The export cable path, both offshore and onshore, will require us to secure additional access rights from state and local agencies/municipalities and utility and private entities to reach the Injection and Delivery Points before commencing construction. [redacted]

While early in the development process, we have already begun our due diligence identifying potential offshore and onshore transmission routes, [redacted]

[redacted] and developing processes to work with communities to minimize impacts [redacted] We prepared plans for our proposed POIs and include more information about these routes in Section 7.

[redacted]

Our proposed onshore routes are designed to utilize public rights-of-way where feasible and to minimize potential impacts on stakeholders. We are committed to working with communities to identify potential conflicts and to pursue mitigation options as we progress in the route selection process. We aim to continue engaging with local municipalities upon award and continually throughout the process.

Further documentation of our plan for the acquisition of additional rights necessary for rights-of-way and NYISO interconnection can be found in our permitting plan (Section 6.2) and our interconnection and deliverability plan (Section 7).

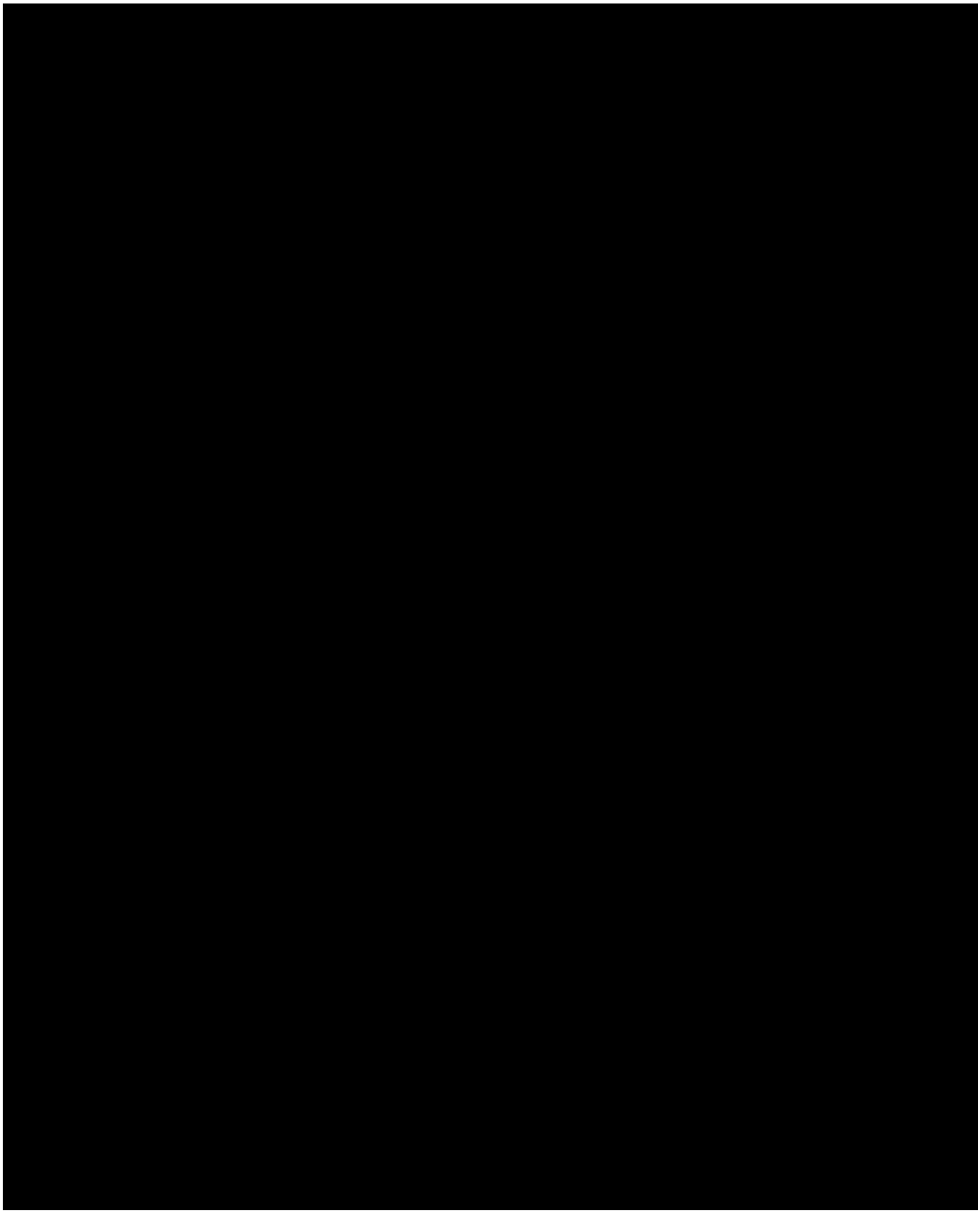
5.3.6 Installation and commissioning

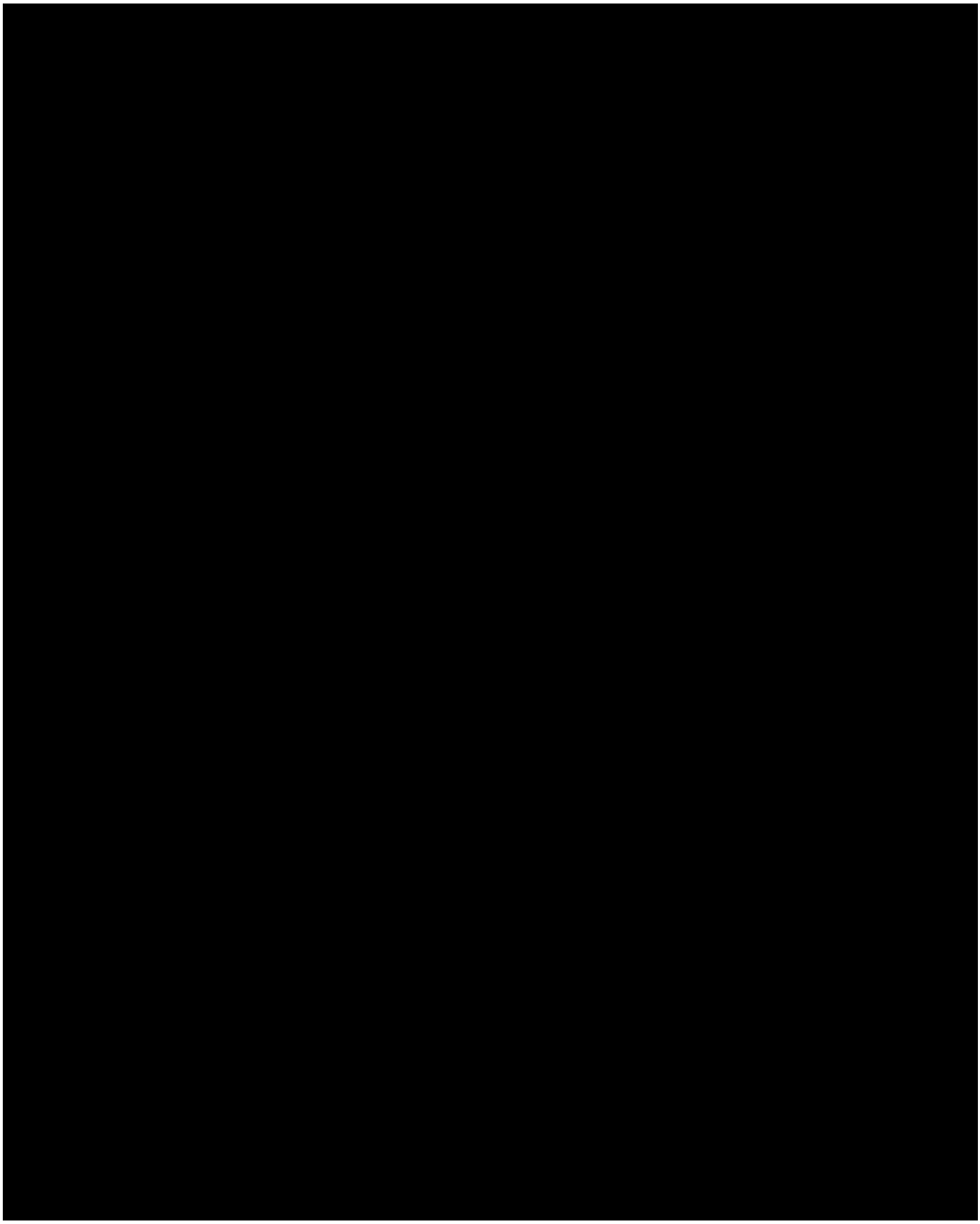
[redacted]

5.4 Time requirements of major scheduling activities

Table 5-3 shows the approximate start and end dates for each major project activity. We will utilize our ultimate parent companies' project experience and undertake commercially reasonable efforts to achieve our planned project delivery schedule. The below dates are the best available knowledge of the schedule and status as of September 9, 2024 and are subject to change pending final contract negotiations with suppliers.

[redacted]





[redacted]

5.5 External factors

Our lease area is subject to several constraints concerning the scheduling of certain construction activities including whale migration restrictions, winter weather hazards, and vessel/construction equipment limitations.

A primary external factor considered in our project schedule is the outage (foundation construction restrictions) between approximately January 1st and April 30th imposed by National Oceanic and Atmospheric Administration (NOAA) Fisheries to protect the North Atlantic Right Whale migration. As seen in Figure 5-5, we expect the start of foundation installation after this period. We will endeavor to utilize the best available technology at the time to address NOAA's concerns, and should technology within the industry mature to the point that restrictions are unnecessary, we will remove this constraint from our project schedule.

Construction windows are also impacted by winter weather conditions in our lease area. Sub-zero temperatures, increased frequency of severe weather, and higher average wave heights all impact our ability to conduct offshore construction activities. While seasonal and whale migration restrictions inform the overall construction schedule, individual construction activities can be impacted at any time by meteorological conditions. For instance, the installation of a [redacted] blade would have to be halted during high winds while the lowering of a cable trencher to the seabed could proceed on schedule. We have accounted for the variation in impact by building in stand-by time assumptions into our schedule.

For additional considerations of project delays during the development, construction and installation, and operations and maintenance phases and our risk treatment implementation, see our project risk register in Section 6.6.

[redacted]

[redacted]

NYSERDA 2024 OFFSHORE WIND SOLICITATION ORECRFP24 -1

Attachment 5-1

Project schedule (PDF)

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5-1 Project schedule (PDF)

This document contains confidential information and is therefore excluded from this public version.

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Attachment 5-2

Project schedule (XLSX)

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5-2 Project schedule (XLSX)

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Attachment 5-3

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5-3 [redacted]

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5-4 [redacted]

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5-5 [redacted]

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