

New York State Offshore Wind

Overview



Offshore wind is key to achieving New York State's nation-leading clean energy goals of 70% renewable energy by 2030 and 100% clean electricity by 2040

Offshore wind is ready to power New York

NYSERDA is leading the responsible and cost-effective advancement of at least 9,000 megawatts (MW) of offshore wind energy in New York State by 2035. In close collaboration with State and federal agencies and engaging critical stakeholders, NYSERDA is working diligently to anchor New York as the nation's hub for this important global industry. Offshore wind presents significant opportunities statewide, including infrastructure development, workforce opportunities, economic benefits, and a just transition to a clean energy economy. Offshore wind is a cornerstone of New York's ambitious and comprehensive climate and clean energy legislation, the Climate Leadership and Community Protection Act (Climate Act), which requires that at least 70% of New York's electricity is generated from renewable sources by 2030 and commits to 100% zero-emission electricity by 2040.

New York will help responsibly develop **9,000 megawatts** of offshore wind power by 2035, enough to power up to **6 million homes**

Offshore wind will bring:

- Clean, locally produced power where demand is highest
- Significant investments in infrastructure and communities along New York's Atlantic Coast and up to the Capital Region
- The opportunity for thousands of short- and long-term skilled construction, manufacturing, and operations jobs
- Diversified electricity supply
- Avoided greenhouse gas emissions

Offshore Wind Master Plan and New Master Plan 2.0: Deepwater

NYSERDA developed the award-winning New York State Offshore Wind Master Plan as a comprehensive roadmap that encourages responsible and cost-effective development of offshore wind in a manner sensitive to environmental, maritime, social, and economic issues. The Master Plan helps minimize project risks and encourages competition among project developers, resulting in reduced costs. Building on the success of New York's award winning offshore wind master plan, NYSERDA will initiate a new master plan 2.0: Deepwater in 2022 to unlock the next frontier of offshore wind development.

Visit nyserdera.ny.gov/offshorewind for more information on the Master Plan.



Offshore Wind

Achieving New York's offshore wind goals

National leader in offshore wind procurements

The addition of Empire Wind 2 and Beacon Wind brings New York's total procured offshore wind capacity to more than 4,300 MW, or nearly 50% of the State's 9,000 MW target by 2035. To date, five projects have been procured, including South Fork (132 MW), Empire Wind 1 (816 MW), Sunrise Wind (924 MW), and Empire Wind 2 (1,260 MW) and Beacon Wind (1,230 MW). NYSERDA's offshore wind projects are anticipated to yield significant new investments in port infrastructure and supply chain opportunities. Projects are expected to be operational by the mid- to late-2020s and bring a combined \$12.1 billion to Upstate, Downstate, and Long Island over the approximate 25-year project lifespan, as well as create more than 6,800 high-quality jobs with salaries averaging \$100,000.

Investing in jobs and infrastructure

Paired with private investments, New York has unlocked more than \$644 million in resilient port facilities and manufacturing, helping to jumpstart project development and drive job growth. NYSERDA's 2020 offshore wind solicitation included a public-private investment opportunity for New York ports to further the State's position as a global wind energy manufacturing powerhouse. The 2020 solicitation yielded investments at the Port of Albany and South Brooklyn Marine Terminal, bringing the number New York ports in active development to five when added to the ongoing work at the Port of Coeymans, and Port Jefferson in Montauk Harbors. In 2022, New York will invest up to an additional \$500 million in the ports, manufacturing, and supply chain infrastructure needed to advance its offshore wind industry, leveraging private capital to deliver more than \$2 billion in economic activity while creating more than 2,000 good-paying green jobs. This investment brings the State's public commitments to a nation-leading \$700 million and will ensure that New York has the strongest offshore wind energy market along the Eastern Seaboard, enabling us to be the offshore wind supply chain hub for other projects up and down the coast. The projects will also spur investments in a \$20 million Offshore Wind Training Institute, a \$10 million National Offshore Wind Training Center, and a \$5 million Community and Workforce Benefits Fund to educate, train, and employ New Yorkers. Together with diverse private, federal, and State funding, New York is poised to deliver more than \$77 million in offshore wind workforce training investments in the coming years – a nation-leading investment.

Fostering stakeholder outreach and public engagement

NYSERDA continues to create opportunities for facilitating dialogue with interested stakeholders, developers, and the public through community engagement, open houses, and webinars. New York's four Technical Working Groups—Environmental, Fishing, Maritime, and Jobs and Supply Chain—ensure continued collaboration among entities with subject-matter expertise, practical experience, and professional interest to responsibly advance offshore wind in the State.

NYSERDA holds the nation's gold standard for stakeholder engagement as a pillar to our offshore wind program. As part of our commitment to those standards NYSERDA published the Guiding Principles for Stakeholder Engagement. These guidelines are intended to support developers as they design their Stakeholder Engagement Plans, which, similar to existing Environmental and Fisheries Mitigation Plans, will be required in future NYSERDA solicitations for Offshore Wind Renewable Energy Certificates (ORECs). To learn more on how all New Yorkers will be involved in this exciting and prosperous new industry please visit our website <https://www.nysERDA.ny.gov/All-Programs/Offshore-Wind/Focus-Areas/Connecting-With-New-Yorkers>.

Conducting research

NYSERDA is continuing to analyze various elements of offshore wind development, including the collection of metocean data, wildlife surveying, air-quality assessment, and supply chain. In addition, the U.S. Department of Energy selected NYSERDA to lead the National Offshore Wind Research and Development Consortium—a nationally focused, independent organization dedicated to reducing offshore wind development costs by managing industry-focused research, development activities, and transmission planning. This includes both offshore wind development and cable routing planning to minimize onshore and ocean floor impacts, and realize an offshore wind grid able to deliver at least 6 gigawatts of offshore wind energy directly into New York City.

Coordinating between State and federal agencies and stakeholders

NYSERDA works closely with the U.S. Department of the Interior's Bureau of Ocean Energy Management (BOEM) to successfully permit existing wind projects and identify new wind energy areas off New York's Atlantic Coast. New York supports rigorous field work, analysis and stakeholder outreach for wind energy development that support the least conflict and greatest opportunities for development of this powerful renewable energy resource.

Learn more about offshore wind in New York State.

nysERDA.ny.gov/offshorewind

Up To **\$700 million** investment
New York Port and Manufacturing Facilities

More Than **\$77 million**
Public and Private Offshore Wind
workforce training investments

\$5 million
Community and Workforce Benefits Fund
with public & private partnerships



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