

# Offshore Wind in 2021- Updates

New York currently leads the nation in the fight against climate change. Offshore wind must play a significant role in our energy mix for us to achieve the state's mandate of 70% renewable energy by 2030 and carbon-free electricity by 2040. Offshore wind presents New Yorkers with a tremendous opportunity, not only to transition from fossil fuels to renewables, but also to foster economic growth and create green jobs in our communities.



As part of the Climate Leadership and Community Protection Act, New York must procure 9,000 megawatts of offshore wind by 2035. New York's first offshore wind farm will be South Fork Wind Farm, a 130mw project off Montauk. In 2019, Governor Cuomo announced the selection of two additional wind farms – Sunrise Wind and Empire Wind – which together will power over one million homes.

In January 2021 two additional large scale offshore wind farms were announced, Empire Wind 2 and Beacon Wind. These two wind farms will produce a total of 2,490 megawatts of renewable energy, enough to power 1.3 million New York homes. They will also create over 5,000 jobs and generate combined economic benefits of \$12.1 billion.

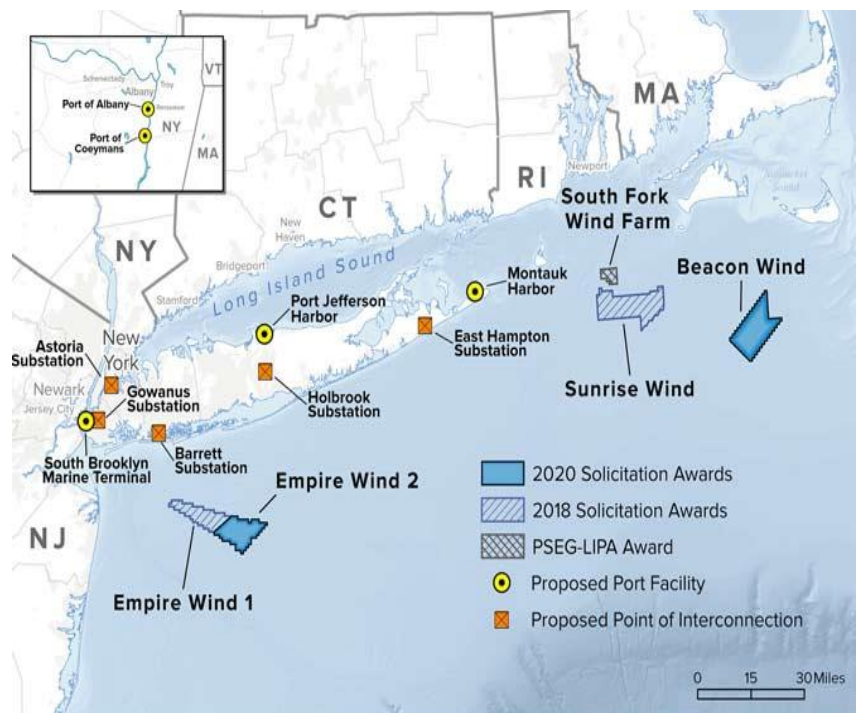
## Empire Wind 2

Empire Wind 2 will be located off the coast of Long Beach City, adjacent to the previously selected Empire Wind. This project will generate 1,260 mw of clean, renewable energy for Long Island. Energy will be delivered to the south shore via a cable connection to the E.F. Barrett substation in Oceanside. The turbines will be built 20+ miles offshore.

## Beacon Wind

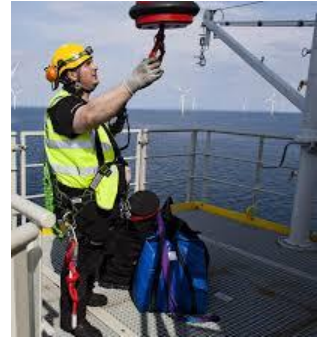
Beacon Wind will generate 1,230 mw of renewable energy and power hundreds of thousands of New York homes. The cable route is expected to carry energy from the turbines, located 50 miles off Montauk, to a Astoria, Queens substation via the Long Island Sound.

Beacon Wind will also be the first project in the state to use High Voltage Direct Current (HVDC) transmission, which allows the current to flow in either direction (towards shore or away from shore). This transmission systems allows for a more reliable power supply with fewer cable connections and less environmental impact to Long Island Sound.



## Growing the Green Economy

In addition to selecting Beacon Wind and Empire Wind 2 as the next two projects in New York's offshore wind pipeline, New York State also announced significant investments in infrastructure and education that will help spur our regional economies. A key component of New York's transition to offshore wind is investing in manufacturing, installation, operations and maintenance of these turbines, which will ensure the state becomes a hub of offshore wind development and green jobs. Some of the key offshore wind infrastructure investments include:



### Capitol Region

Governor Cuomo has announced that first offshore wind tower manufacturing facility in the US will be developed at the Port of Albany. This facility plans to produce 150 towers each year, bringing the offshore wind industry to the Capitol region and creating 500 local jobs. Just south of Albany, the Port of Coeymans has been chosen to produce the gravity-based foundations used in Equinor's offshore wind projects, which reduce disruption to the sea floor and mitigate impacts of offshore wind construction on marine life.

### New York City

The South Brooklyn Marine Terminal in Sunset Park is set to be another major offshore wind hub and will house the largest offshore wind port in the nation. The SBMT, which will specialize in assembly, operations and maintenance of the turbines, and is projected to create over 1,000 jobs based in the waterfront environmental justice community.

### Long Island

New York's first offshore wind operations and maintenance facility is being developed in East Setauket, and Port Jefferson is slated to be home to the nation's first service operations vessel. The vessel is needed to perform operations and maintenance on offshore turbines and will be the first one to carry the US flag. The Port Jefferson port and East Setauket facility will create approximately 100 local jobs combined.

Long Island is also receiving significant investments in education and workforce development programs to ensure New Yorkers benefit financially from the emerging offshore wind industry. Suffolk County Community College will be home to a \$10 million National Offshore Wind Training Center, which will help create a skill workforce for the offshore wind industry. In 2021, Governor Cuomo also announced plans to launch a \$20 million Offshore Wind Training Institute with plans to train and certify 2,500 workers. The Institute will be a partnership between SUNY Farmingdale and Stony Brook University.

New York's leadership in offshore wind will not only create good jobs and boost regional economies, it will also lead to significant health and community benefits. These offshore wind projects will allow for the phase out of polluting fossil fuel plants in Queens and Nassau County, leading to improved air quality and \$1 billion in health impact benefits. The progress New York is continuing to make on offshore wind will result in substantial improvements in our environment, our health, and our economy.



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**For more information on offshore wind, visit [windworkslongisland.org](http://windworkslongisland.org)**