

# Offshore Wind in New York State

Offshore wind farms utilize ocean winds using large structures called turbines. As the wind blows, it turns the turbine blades which generate electricity. This electricity is transmitted via cables to the mainland electrical grid. Wind turbines are located many miles offshore to access stronger, consistent winds allowing them to be highly efficient sources of clean energy.

## WHY IS OFFSHORE WIND NEEDED?

Offshore wind plays a crucial role in New York's strategy to reduce greenhouse gas emissions and fight climate change. Offshore wind generates power consistently due to strong ocean winds, making it a dependable renewable energy source for meeting high energy demands in New York.<sup>1</sup> By transitioning from fossil fuels to renewables like offshore wind, New York can:



Enhance energy independence and support local economies



Power over a million homes with clean energy



Help meet the State's energy goals



Generate electricity without releasing CO<sub>2</sub> and other greenhouse gas emissions



Reduce our reliance on air-polluting fossil fuels



Use land efficiently and free up valuable onshore land for other uses

## Offshore Wind doesn't work alone:

After wind farms produce electricity, it travels through transmission to the mainland and connects to a substation. This substation allows for offshore wind power to be transferred to homes and businesses statewide.

## Offshore Wind Helps Meet Climate Goals!

### DID YOU KNOW

New York's has committed to having at least 70% of electricity from renewable energy sources by 2030 and developing 9,000 megawatts of offshore wind by 2035.<sup>2</sup>

New York's Climate Leadership and Community Protection Act (CLCPA) sets ambitious targets: 70% renewable electricity by 2030 and 100% by 2040. Offshore wind is key to meeting these goals due to its high capacity and reliability.<sup>3</sup> Investments in offshore wind, transmission, and battery storage lay the groundwork for an economically beneficial green energy future.

## JOIN US AND TAKE ACTION!



Scan the QR code to sign our petition supporting offshore wind in New York!



1: <https://www.governor.ny.gov/news/governor-hochul-announces-empire-wind-i-receives-final-approval-authorizing-project-start>

2: <https://climate.ny.gov/>

3: <https://www.nyserda.ny.gov/All-Programs/Offshore-Wind/About-Offshore-Wind>

# CURRENT AND UPCOMING PROJECTS



**Location of South Fork Wind**

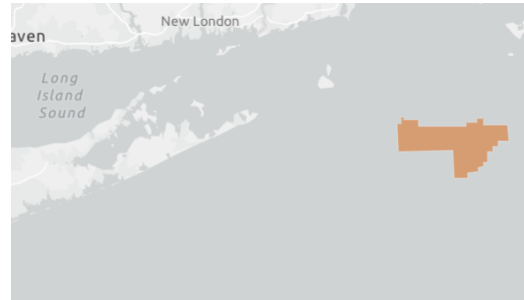
Source: BOEM - <https://www.arcgis.com/home/item.html?id=f4bafa57366c49ffb84db33fa52c134c>

## ***SOUTH FORK WIND:***

New York's first operational offshore wind farm, located 35 miles off Montauk. This wind farm has a 132-megawatt capacity, which means it is generating power for 70,000 homes, and reduces CO<sub>2</sub> emissions equivalent to taking 60,000 cars off the road.<sup>4</sup> Nearly 1,000 new jobs were created across 5 states to build South Fork Wind.

## ***SUNRISE WIND:***

Currently under construction, this 924-megawatt project will be New York's largest offshore wind farm. It will be located 35 miles off of Suffolk County's south shore and will power about 600,000 homes. Sunrise Wind will generate more renewable offshore wind energy than any other single project in U.S. history. This project will create approximately 800 jobs during construction and include partnerships with local institutions to support workforce development.<sup>5</sup> The wind farm is projected to be operational in 2026.

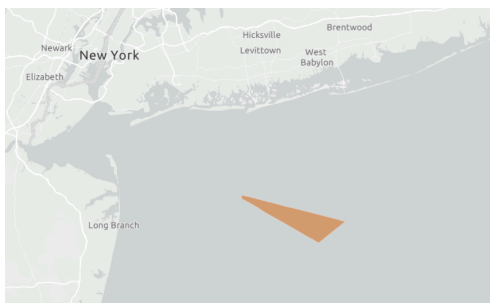


**Location of Sunrise Wind**

Source: BOEM - <https://www.arcgis.com/home/item.html?id=f4bafa57366c49ffb84db33fa52c134c>

## ***EMPIRE WIND 1:***

Developers have been given final approval to construct the project, which will be located approximately 14 miles off of Long Beach City and generate 810 megawatts (enough to power 500,000 homes). Empire Wind 1 will be America's first offshore wind project to plug directly into the New York City grid and will generate more than 1,000 union jobs during the construction phase. This phase is anticipated to deliver first power in late 2026 and be fully commercial by 2027.<sup>6</sup>



**Location of Empire 1**

Source: BOEM - <https://www.arcgis.com/home/item.html?id=f4bafa57366c49ffb84db33fa52c134c>

4: [https://southforkwind.com/?pk\\_vid=d61b16c753d35e27173073434483feaa](https://southforkwind.com/?pk_vid=d61b16c753d35e27173073434483feaa)

5: <https://climate.ny.gov>

6: <https://www.equinor.com/news/20240604-solidifies-new-york-offtake-contract-empire-wind-1>