



Energy That Works South Fork Wind



One year of South Fork Wind

A letter from Carrie Meek Gallagher, Chief Executive Officer, Long Island Power Authority

South Fork Wind is delivering efficient, reliable electricity to 70,000 New York homes — marking a significant milestone for our energy future. As America’s first commercial-scale offshore wind project, it represents the infrastructure Long Island needs to meet growing demand and strengthen grid reliability.

In 2017, Long Island Power Authority (LIPA) issued a solicitation to address the unique energy needs on the South Fork, a grid-constrained peninsula in southeastern Suffolk County on Long Island. We selected the South Fork Wind project as the most cost-effective solution, and what followed were seven years of partnership, economic opportunity, and technical innovation. LIPA worked alongside Ørsted and hundreds of businesses, workers, suppliers, communities, and government partners to bring the project from concept to reality.

Today, this first-of-its-kind American energy project is a dependable source of

generation for our customers, with performance matching our projections and capacity factors comparable to our most efficient baseload sources. The project earned recognition as *POWER Magazine’s* 2024 Plant of the Year for its exceptional execution and “resilience under pressure and precision across disciplines.”

This report documents the results from South Fork Wind’s first full year of operation and showcases the people, partnerships, and communities that made it possible. South Fork Wind is working — for Long Island ratepayers, for American energy security, for our domestic supply chain, and for the communities we serve.

Carrie Meek Gallagher
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Chief Executive Officer
Long Island Power Authority

70K
homes powered

46.4%
annual net
capacity factor

>92%
time generating
electricity in H1 2025



Working for New York

The United States is facing a surge in electricity demand — driven by data center expansion, the reshoring of manufacturing, and the electrification of buildings and transportation.

In New York, demand growth is expected to rise from 152,000 GWh in 2024 to 244,000 GWh by 2055 — a 61% increase that will require substantial new generation capacity. American offshore wind energy offers high-performing, large-scale generation near densely populated coastal centers in the Northeast.

Delivering reliable and affordable power generation

South Fork Wind is now providing consistent, affordable electricity to Long Island, with performance data showing it matches the reliability of many baseload generators.

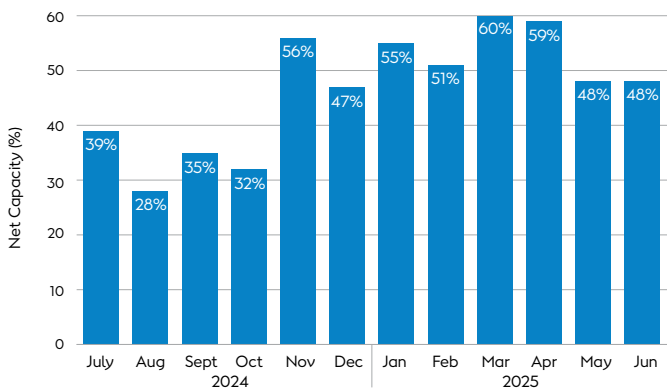
Capacity factor is a key performance metric that measures how much electricity

a plant generates relative to its maximum possible output. South Fork began commercial operations in July 2024 and achieved a strong 46.4% net capacity factor over its first full year. Through operational optimizations and strong wind speeds, performance rose to a notable 53% for the first half of 2025. This performance is on par with New York’s most efficient natural gas plants (53.7%).

Even as wind speeds vary naturally, the project produced electricity more than 92% of the time during the first half of 2025, supported by reliable operational uptime of the wind turbines themselves.

South Fork’s performance is also translating to real value for New York ratepayers. At a cost of about \$1.58 per month for the typical residential customer, South Fork is adding needed capacity to a grid-constrained area, helping to keep down electric bills while ensuring consistent power. As estimated in the 2025 study by Aurora Energy Research, if the offshore wind projects Empire Wind 1, Sunrise Wind and South Fork Wind had been operational, they could have saved New Yorkers a total of \$77 million during a single cold, high-cost month in 2022.

South Fork Wind Net Capacity Factor by Month¹



¹ Source: U.S. Energy Information Administration monthly net generation data, based on 132 MW of nameplate capacity. <https://www.eia.gov/beta/electricity/data/browser/#/topic/1?agg=2,0,1&fuel=vtvv&sec=g&geo=g&freq=M&datecode=202505&tab=generation&pin=&rse=0&maptype=0<type=pin&ctype=linechart&end=201710&start=200101>



Meet a wind turbine technician

South Fork employs 33 wind turbine technicians, 10 transmission technicians, and 11 Generation Control Center operators to monitor and maintain the facility.

Sean Johnson is one of those wind turbine technicians, climbing 459 feet above the Atlantic Ocean to perform repairs, inspections, and annual servicing on the project's 12 turbines. Motivated by wanting to build a better world for his daughter, Sean trained for offshore wind through a two-year program. Now, he works close to his Long Island home while ensuring the turbines run consistently and at peak performance.



Strengthening grid resilience & energy security

Today, Long Island relies on a single generation technology — natural gas — for the majority of its electricity generation. South Fork is adding domestically produced electricity and diversifying the region's energy mix, in turn strengthening grid stability.

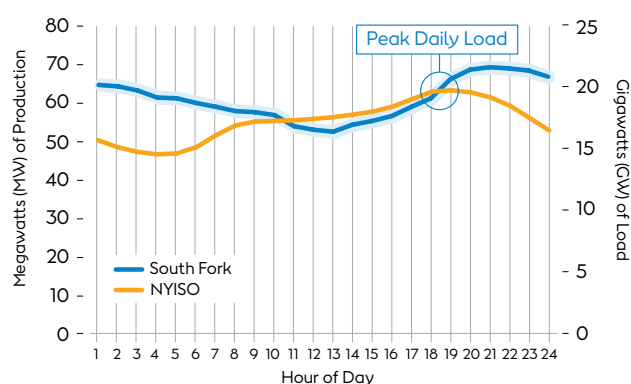
This energy diversification proves especially valuable during extreme weather events. During a heat wave in June 2025, record-breaking temperatures pushed New York's electricity demand to critical levels, requiring grid operators to call upon every available resource and triggering a Major Emergency declaration by the New York Independent System Operator (NYISO) on June 24th. South Fork responded by delivering an 87.4% capacity factor during a key window from 6:00 to 9:00 p.m., bolstering the power supply when the grid needed it most.

The project's generation also enhances grid reliability by naturally complementing other energy sources. While South Fork averaged solid energy production throughout each month in its first year, offshore wind output tends to peak during winter months, when natural gas demand for heating is highest. The project also generates more electricity in the afternoon and evening, complementing solar energy's daytime and summer production well. This generation pattern bolsters year-round grid stability and helps to meet daily peak load during the late afternoon.

“South Fork Wind's exceptional first-year performance puts it on par with our top-performing facilities globally, confirming that the Northeast United States has some of the most exceptional offshore wind resources in the world.”

—Mikkel Mæhlisen, Head of Operations, Ørsted

Average hourly net generation, South Fork Wind vs. Average daily load, NYISO¹



¹ Note: Hour 1 = 12:00am–1:00am. South Fork Wind data (July 2024–June 2025) and NYISO (2024) data.

Source: <https://www.nyiso.com/documents/20142/35490978/nyiso-loads-2024.csv/237b1228-6478-75e5-0552-ef84388d74a5>

Coexisting with the marine ecosystem

South Fork's operational success also extends to its integration with the surrounding marine ecosystem.

This compatibility is supported by INSPIRE Environmental's independent, multi-year seafloor monitoring survey assessing how marine life is responding to the project's infrastructure. The survey's findings show that the project is coexisting harmoniously with the marine environment. Turbine foundations are now functioning as artificial reefs, creating new habitat for commercially valuable species, including black sea bass, lobster, flounder, and Atlantic

cod. Marine invertebrates readily attach to and grow on the structures, while surrounding seafloor communities and sediment functions remain unchanged from pre-construction conditions. Environmental monitoring continues through 2029, maintaining ecological stewardship during project operations.

Additionally, NOAA NMFS recently updated commercial landings data relative to fish caught within lease area OCS-A-0517 (South Fork Wind). According to the update, the last two years of fish landings and revenue from within the South Fork area are some of the highest reported since 2008.



Images show stable sand dollar community along South Fork export cable route before and after installation.



← Learn more.



← Read the NOAA report.



Image credit: © 2025 INSPIRE Environmental. inspireenvironmental.com



Monitoring birds and bats

Located 35 miles offshore, South Fork was sited to minimize bird and bat interactions. Advanced monitoring systems, including Motus telemetry stations and acoustic monitors, continuously track wildlife activity, and early findings indicate low risks to birds and bats.



Supporting commercial fishing

The project's 1-by-1 nautical mile turbine spacing allows commercial fishing operations to continue between turbines, with local fishing vessels regularly operating within the site area.

“The opportunities are there — whether you want to get involved in offshore wind or continue traditional fishing. Both can coexist and actually support each other.”

—Gary Yerman, Fleet Manager and Cofounder, Sea Services North America

Working for an American supply chain

Building South Fork activated a robust domestic supply chain, spanning 173 contracts for project activities, ranging from early survey work to vessel construction. These investments created over 1,000 jobs, expanded industrial capacity in local communities, and brought new opportunities to legacy American industries like steel manufacturing and shipbuilding.

Hear from South Fork's supply chain partners across New York and the country:

Waterson Terminal Services at ProvPort

📍 RHODE ISLAND

At its Port of Providence (ProvPort) assembly site in Rhode Island, Waterson Terminal Services provided specialized port operations and logistics coordination for union workers to construct critical foundation components, including monopile foundations and transition pieces. The port's deep-water access and heavy-lift equipment enabled workers to manage the large-scale components required for offshore installation.

Edison Chouest Offshore

📍 GULF COAST

The project's ongoing maintenance is performed using the ECO EDISON, the first American-made, -flagged, and -crewed offshore wind service operations vessel (SOV). Across nearly one million work hours, the ECO EDISON was built by more than 600 workers at shipyards in Louisiana, Mississippi, and Florida, with vessel components sourced from 34 states.

"Offshore wind provides new vessels, new builds, new job opportunities."

—Brent Lirette, Operations Manager (Renewables Division), Edison Chouest Offshore



Kiewit Offshore Services, Ltd.

📍 TEXAS

In Corpus Christi, Texas, Kiewit Offshore designed and engineered America's first offshore wind substation, mobilizing 250 workers during construction. The substation now collects power from all 12 turbines, serving as the central hub for the project's domestic energy production.

"The production of clean energy is at a pivotal stage in the U.S., and offshore wind, such as the South Fork Wind project, plays a very important role."

—Paul Geldmeier, Executive Vice President, Kiewit

Riggs Distler & Company

📍 NEW JERSEY

As a Tier 1 supplier, Riggs Distler assembled and fabricated advanced foundation components for the project's turbines at ProvPort. The components included external concrete platforms for turbine access, as well as internal platforms supporting critical communication systems and electrical equipment. This work marked the first time these essential project components were fully assembled domestically, helping establish new manufacturing capabilities for American energy.

"Offshore wind is more than a project — it's a pipeline of opportunity. There's a real pride, being able to point to something and say I helped build America's energy future."

—Chris Johnston, Vice President of Offshore Wind, Riggs Distler



Haugland Group

📍 NEW YORK

The Long Island-based contractor installed underground transmission infrastructure and led onshore substation construction. The work generated more than 100 union positions for local skilled trades workers, including heavy equipment operators, electricians, lineworkers, and delivery drivers transporting materials to the site.

"Offshore wind has created the opportunity for not only our business but for the entire region here on Long Island."

—Billy Haugland, CEO, Haugland Group



Roman Stone Construction Company

📍 NEW YORK

Another Long Island contractor, Roman Stone, manufactured protective concrete coverings for undersea cables — essential infrastructure that transmits power from the offshore substation to the regional electrical grid.

Elecnor Hawkeye LLC

📍 NEW YORK

With expertise in underground transmission systems, Elecnor Hawkeye installed and jointed the onshore cables, creating a durable, reliable connection between the project and the local power system.



Working for local communities & workers

South Fork’s construction mobilized tradespeople across the nation, creating over 1,000 jobs and new career pathways within American energy.

Working for union labor

Construction foreman Matt Laub helped build the project’s onshore substation on Long Island. This work gave him the chance to build major infrastructure close to home — while earning steady wages to support his family. After 18 months of meticulous work with a crew of union workers, Matt now takes pride in telling his children that he helped deliver electricity to thousands of their neighbors’ homes.

“South Fork Wind shows what is possible when we invest in American workers. The project created nearly 1,000 full-time equivalent stable union jobs, keeping families in their hometowns while building domestic energy infrastructure. When our workers can say ‘I built that, and it’s powering my community,’ that’s when you know you’ve done something meaningful.”

—Allison Ziogas, Head of Labor Relations, Ørsted



← Hear from Matt Laub.



↑ Hear from Aleshandra Fernandes.

1.5M+
union labor hours
supported South Fork's
construction

Working for skilled trades

Aleshandra Fernandes, an ironworker from Southampton, New York, joined Iron Workers Local Union 361 to pursue her passion for building with her hands. She put her talents to work to install monopile foundations for the project’s turbines. This work provided stable income — and today, her efforts are helping to power her own hometown.

Working for residents

Since 1964, Jessica James has called Montauk, New York, home. As the President of Concerned Citizens of Montauk and a

dedicated conservationist, she witnessed her town’s growing electricity demands — especially during summer months, when tourism surges have strained the local grid, sometimes causing brownouts. She has become a vocal advocate for the project, viewing it as essential infrastructure that serves both her community’s immediate energy needs and long-term sustainability goals.

“As you might guess, New York has incredibly high energy demand. When I heard that we were getting our own offshore wind farm, I was super excited. I couldn’t be prouder that New York is leading the way on this.”

Working for The Town of East Hampton

The Town of East Hampton secured one of the largest clean energy community benefits agreements in Long Island history when South Fork brought its

offshore power cable ashore. The 25-year, \$29 million agreement delivers comprehensive annual payments funding environmental initiatives, renewable energy programs, and local community projects. The agreement ensures that the Town of East Hampton receives substantial long-term social and economic benefits as the host community, while also accessing the local power generated by the project.

Beyond the agreement, South Fork repaved every road used during cable installation — leaving nearby neighborhoods in good condition.

“The completion of the South Fork Wind project is helping us safeguard the place we love. The clean power now reaching our homes and the support for local programs both strengthen East Hampton and reflect our shared commitment to protect our coastal community. It is about ensuring that our beaches, bays, and way of life remain strong for our families today and for those generations who will follow.”

—Kathie Burke-Gonzalez, Supervisor, The Town of East Hampton



The path to operations

South Fork's first full year of operation builds on years of planning, permitting, and collaboration — work that laid the foundation for the project's successful delivery.

2017 — January 2022 — February 2022 — 2022–2024 — November 2023 — December 2023 — March 2024 — July 2024

South Fork Wind is selected in LIPA's technology-neutral solicitation for new generation resources. The 20-year power purchase agreement for 90 MW is approved and later expanded to 132 MW.

South Fork receives federal COP approval after nearly six years of multi-agency review.

Onshore construction begins in East Hampton with underground cable installation.

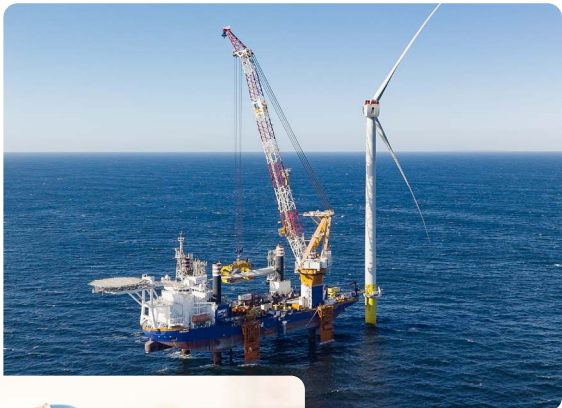
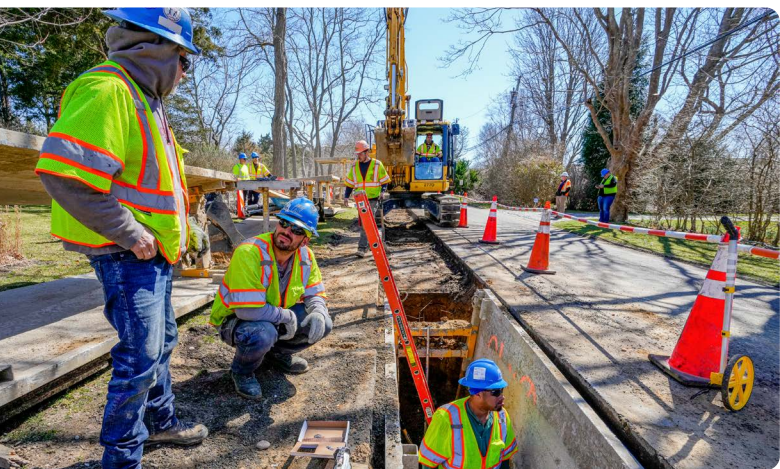
Over 1,000 workers across the nation contributed to building the project — from component manufacturing and assembly to construction at ports and offshore.

First offshore turbine installed.

"First power" achieved with initial electricity delivered to shore.

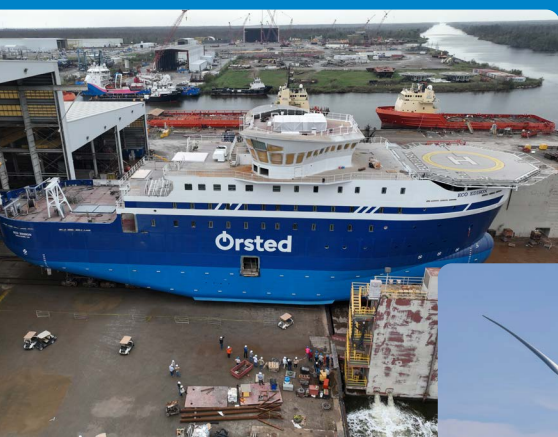
All 12 turbines installed, marking the completion of the first commercial-scale offshore wind farm in the U.S.

Project completes all required testing and achieves full commissioning.





Learn more at
us.orsed.com



September 2025