



More than 450 local companies are ready to support offshore wind in the Gulf of Mexico. (Courtesy: Gulf Wind Technology)

► CONSTRUCTION

Gulf Wind preparing Louisiana's first wind turbine

Louisiana's first wind turbine and its components have arrived at Avondale Global Gateway (AGG) after a transatlantic journey from Ireland. Gulf Wind Technology (GWT), headquartered at Avondale Global Gateway in Jefferson Parish, is preparing the onshore turbine for installation at the Port Fourchon Coastal Wetlands Park, with initial deployment and testing slated to begin late this year.

"This first turbine will demonstrate all the necessary elements for deploying wind-energy projects in the Gulf,

marking a crucial step toward realizing the full technical and economic potential for offshore wind," said James Martin, Gulf Wind Technology CEO. "It's essentially a prototype to provide us research-oriented results that we can build upon and demonstrate the potential supply chain available in Louisiana, starting with Avondale Global Gateway and finishing at deployment near Port Fourchon."

"The arrival of this wind turbine underscores Avondale Global Gateway's commitment to innovation," said Host Chairman and CEO Adam Anderson. "Avondale is a prime location for companies like Gulf Wind Technology, and we are proud that they call Avondale Global Gateway home. Together, we will continue to increase economic stability and energy development in

Jefferson Parish, Southeast Louisiana, and beyond."

The transport of this turbine tested Louisiana's pre-built infrastructure that could become part of the offshore wind supply chain. A recent report said more than 450 local companies are ready to support offshore wind in the Gulf of Mexico.

In addition to importing large offshore wind components, Avondale Global Gateway's modernized enhancements can offer storage, sub-assembly, and on-site manufacturing and fabrication before loading turbine components onto barges for installation in the Gulf. Avondale Global Gateway's all-encompassing value and proximity to the Gulf's experienced workforce make it well-positioned to serve as a logistics and supply chain hub for future



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Construction on the Princess Elisabeth island will run until the end of 2026. (Courtesy: Modulift)

offshore wind opportunities.

MORE INFO [www.gulfwindtechnology.com/
portfourchon](http://www.gulfwindtechnology.com/portfourchon)

CONSTRUCTION

**Modulift helping
to build energy island
off Belgium**

Modulift, a lifting equipment manufacturer, is facilitating the construc-

tion of a complex offshore energy project in the North Sea. Deemed to be the world's first artificial energy island, "Princess Elisabeth" marks a milestone in renewable energy infrastructure development.

Situated 30 miles off the coast of Belgium, in the 3.5-GW Princess Elisabeth offshore wind zone, the island will act as an international energy hub to centralize all electricity produced by wind farms in the zone.

TM Edison, a joint venture between marine companies Jan De Nul and DEME Group NV, is responsible for the



The New England Wind projects are about 20 nautical miles south of Martha's Vineyard. (Courtesy: BOEM)

construction and installation of the energy island, which will contribute to the EU's goal of 300 GW offshore wind capacity by 2050.

Assembling the infrastructure of the energy island requires lifting and maneuvering of large structural elements and equipment. The outer perimeter of the island will be made up of a series of concrete structures known as caissons. These are built onshore before being transported to their offshore location. Construction of the Princess Elisabeth Island is expected to last until the end of 2026.

"Modulift's spreader beams have been integral to the construction of the concrete sections, with one formwork section weighing around 17 tons and 10 meters in length. We are using a 1-over-1 configuration, utilizing a MOD 34 spreader beam at the top and a MOD 24 on the bottom; Modulift spreader beams have been instrumental in safely hoisting the formwork into position," said Ruben Verschueren, TM Edison's site superintendent, civil works.

"Modulift is known for its iconic yellow spreader beams across the renewable and offshore energy sectors, and has set the precedent for safety, efficiency, and fast delivery in the global lifting industry," said Sarah Spivey, managing director.

MORE INFO www.modulift.com

CONSTRUCTION

BOEM approves New England Wind construction plan

The Bureau of Ocean Energy Management (BOEM) recently announced its approval of the New England Wind Construction and Operations Plan (COP), which authorizes construction and operation of two wind-energy projects.

This is the final approval of these two projects from BOEM, following the

agency's April 2024 Record of Decision.

"The Biden-Harris administration is committed to advancing offshore wind-energy projects like New England Wind to create jobs, drive economic growth, and cut harmful climate pollution," said BOEM Director Elizabeth Klein.

"We are proud to announce BOEM's final approval of the New England Wind projects. They represent a major milestone in our efforts to expand clean-energy production and combat climate change."

The approval will permit the construction and operation of two offshore wind-energy facilities, known as New England Wind 1 and New England Wind 2, which together will have a total capacity of up to 2,600 MW of renewable energy that could power more than 900,000 homes each year.

The two projects are situated about 20 nautical miles south of Martha's Vineyard, Massachusetts, and about 24 nm southwest of Nantucket, Massachusetts. The COP for the two proj-



Clearway Energy is repowering its Webb County, Texas, wind farm. (Courtesy: Clearway Energy Group)

ects includes up to 129 wind-turbine generators, up to five electric service platforms, and up to five offshore export cables transmitting electricity to onshore transmission systems in the Town of Barnstable and Bristol County, Massachusetts.

BOEM considered feedback from Tribes, other government agencies, ocean users, and others prior to the decision.

The feedback resulted in required measures to avoid, minimize, or mitigate any potential impacts from the project on marine life and other important ocean uses, such as fishing.

Since the start of the Biden administration, the Department of the Interior has approved eight commercial-scale offshore wind-energy projects in federal waters, and BOEM has held four offshore wind lease sales, including offshore New York, New Jersey, the Carolinas, and the first-ever sales offshore the Pacific and Gulf of Mexico coasts.

MORE INFO www.boem.gov

► CONSTRUCTION

Clearway begins repowering at Texas wind farm

Clearway Energy Group closed financing and has begun repowering construction of its Cedro Hill wind farm in Webb County, Texas. The repower will increase Cedro Hill’s capacity to 160 MW from 150 MW. Once complete, the repowered project will generate enough electricity to power more than 40,000 homes during peak hours.

“Our Cedro Hill repowering is our most recent example of how Clearway is upgrading its sizeable existing fleet to deploy resilient, state-of-the-art technology on sites that have proven, high-quality wind resources,” said Chris Fox, senior vice president of Construction at Clearway Energy Group. “As a long-term owner and operator, we are pleased that repowerings like Cedro Hill deliver decades of more val-

ue for our local landowners and communities.”

This project will mark Clearway’s fifth wind-farm repower in Texas and sixth across its portfolio, amounting to more than 700 MW of upgrades to deploy resilient technology on sites with strong wind resources.

The Cedro Hill repower represents a \$269 million investment in south Texas. Upon completion, the repower will add another 15 years to the project’s operating life and extend property taxes and landowner payments to Webb County by \$27 million.

The repower will replace the blades and nacelle with General Electric (GE) equipment across the site’s 100 turbines, and manage all replaced equipment. In collaboration with Wanzek Construction, Inc., a MasTec Renewables company, Clearway is undertaking efforts to ensure that existing materials, including fiberglass, are recycled or diverted from landfills. More than 200 skilled laborers will support construction.



Anemoui's rotor sails harness wind to propel ships. (Courtesy: Anemoui Marine)

Cedro Hill was built and commissioned in 2010, with its generated power sold under a long-term power purchase agreement with CPS Energy, the nation's largest municipal electric and gas utility, serving the city of San Antonio, Texas, and one of the nation's largest municipal buyers of wind energy. As part of the repowering, CPS Energy extended its existing agreement to support its commitment to growing its renewable energy portfolio. CPS Energy continues to benefit from 100 percent of the power generated by the Cedro Hill wind farm.

"MasTec Renewables is looking forward to another successful project with Clearway Energy Group," said Brendon Lamma, director of construction, MasTec Renewables. "This will be the third overall, but the first repower project that the teams will have worked together on. This is a unique opportunity given the fact that MasTec Renewables' legacy personnel performed the origi-

nal build in 2010. The repower aspect also brings a recycling component into the equation. All 100 existing hubs and 300 existing blades will be removed, cut on-site, and shipped to a recycling facility to be processed for beneficial reuse."

MORE INFO www.clearwayenergy.com

INNOVATION

North Star claims first mover on Midi-SOV design

North Star, specialist vessel operator for offshore infrastructure support services, was recently announced as the first mover on the Midi-SOV — a new offshore wind ship design developed by Chartwell Marine, a pioneer of next-generation vessel design, and

VARD, a leading designer and ship-builder of specialized vessels.

The Midi-SOV is a 55-meter offshore wind craft ready for build in the European, Asian, and U.S. markets. North Star has entered an agreement with Chartwell and VARD, becoming the first to adopt and use the Midi-SOV on offshore wind projects, investing in upfront design fees to facilitate vessel construction for European operations.

"We designed the Midi-SOV with a clear vision of its integration into future offshore wind fleets, filling the gap that had emerged between CTVs and SOVs and addressing key operational challenges as the wind industry evolves," said Andy Page, Chartwell Marine managing director.

"Together with VARD, we have been very encouraged by the positive response we've received from offshore wind operators, underscoring the industry's readiness for new solutions that enhance efficiency, safety, and

overall project costs. And, of course, we are delighted to continue our collaborative relationship with North Star as they take a leading role in bringing this vessel from design to reality,” Page said.

Chartwell and VARD’s Midi-SOV solution addresses challenges in the offshore wind sector by bridging the gap between Crew Transfer Vessels (CTVs) and Service Operation Vessels (SOVs), providing comfort and workability while offering a cost-effective alternative to full scale SOVs. With a design based on operational data to meet the niche requirements of offshore wind developers and operators, the Midi-SOV is intended to complement existing fleets.

The operational efficiency of the Midi-SOV was identified as one of its key advantages, evidenced by lower technician attrition rates due to the comfortable and spacious working environments provided. Furthermore, discussion included the Midi-SOV’s ro-

bust safety performance, particularly in reducing risks during technician transfers and crane operations.

“We’re excited about the operational versatility the design can give us, as well as the high standards of safety, availability and cost efficiency it promises — and proud to play our part in bringing the first Midi-SOVs to market,” said Andrew Duncan, North Star’s renewables and innovations director.

MORE INFO www.northstarshipping.co.uk

INNOVATION

Anemoi Marine carrier rotor sails installed

Berge Bulk’s Berge Neblina, a 388,000 dwt Valemax Ore Carrier, is completing its voyage to Brazil following the successful installation of four 5x35m

rotor sails from Anemoi Marine Technologies Ltd.

The installation, which took place during the vessel’s scheduled dry docking, was completed at Yiu Lian Dockyards (Shekou) Ltd in China. The selected rotor sails have been installed on Anemoi’s folding deployment system, where the sails can be folded from the vertical to mitigate impact on air draught and cargo handling operations when in port.

“Leveraging the latest in wind technology to reduce our fleet’s emissions is an important part of Berge Bulk’s ‘Maritime Marshall Plan’ for decarbonization,” said Paolo Tonon, Berge Bulk’s technical director. “We are optimistic that these rotor sails can deliver up to 8 percent carbon reduction.”

“Anemoi’s collaboration with Berge Bulk demonstrates how we are both working in partnership to ultimately secure shipping’s zero-emission future,” said Kim Diederichsen, Anemoi CEO. “Anemoi remains committed to



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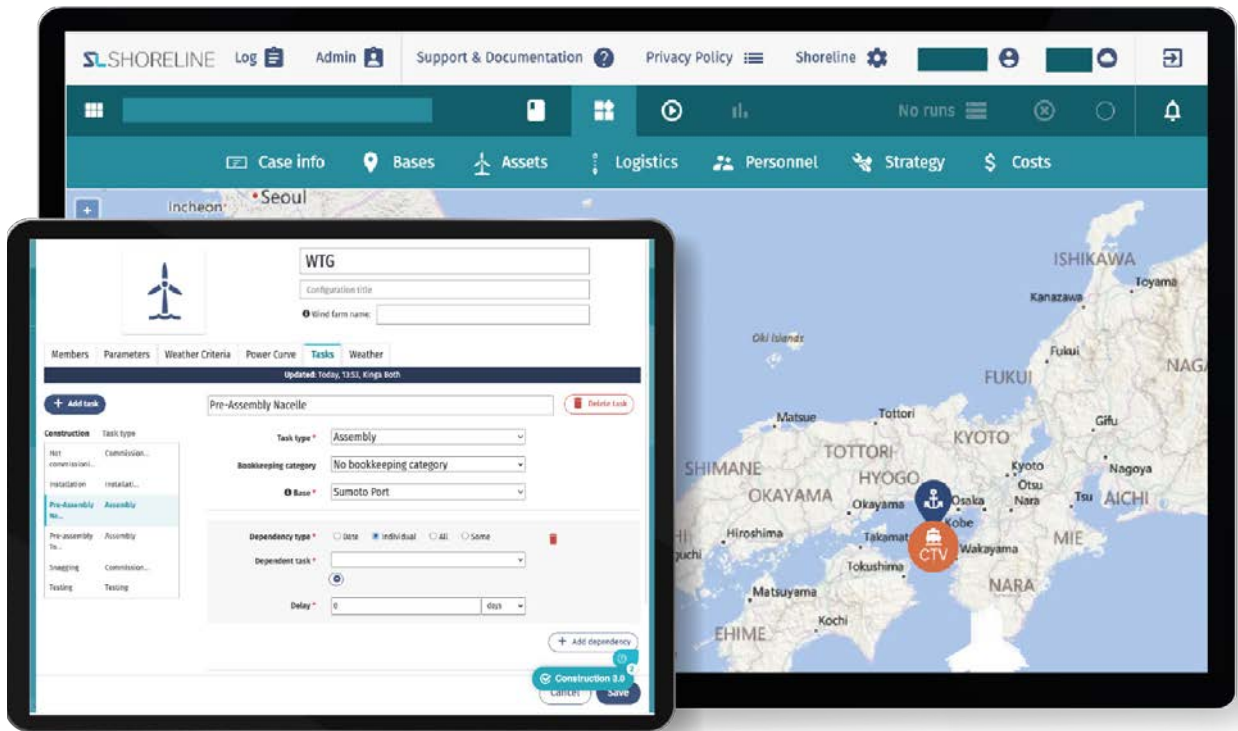
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TEPCO and Shoreline Wind are collaborating on using simulation software. (Courtesy: Shoreline Wind)

maintaining its position as a leading provider of critical vessel decarbonization technology.”

Rotor sails, also referred to as Flettner Rotors, are comprised of vertical cylinders that, when driven to rotate, harness the renewable power of the wind to propel ships. These mechanical sails capitalize on the aerodynamic phenomenon known as the Magnus Effect to provide additional thrust to vessels. By leveraging wind energy, Berge Neblina will see increased efficiency by reducing the load on the main engine while maintaining speed, reducing fuel consumption and resulting in fewer greenhouse gas emissions.

The technology is being increasingly embraced by ship owners, especially in the bulk sector, who are aiming to achieve net-zero shipping emissions. Rotor sails have emerged as a preferred technology to augment and enhance the energy performance of vessels. Rotor Sails are a compact technology, which offer a large thrust force to pro-

pel ships, helping them comply with pivotal international emission reduction benchmarks such as the Carbon Intensity Indicator (CII) and EEDI/EEEXI.

MORE INFO www.anemoimarine.com

► MAINTENANCE

TEPCO, Shoreline Wind collaborate on simulation software

TEPCO Renewable Power and Shoreline Wind recently announced a collaboration aimed at optimizing the design and management of offshore wind-power operations and maintenance (O&M) by using intelligent simulation software.

TEPCO Renewable Power, a leader in Japan’s renewable energy sector, is on a mission to expand its offshore wind portfolio. TEPCO determined Shoreline Wind’s O&M simulation

software is an ideal tool to solution to evaluate maintenance and management costs, predict future cash flows, and streamline operational logistics.

By integrating Shoreline Wind’s O&M software into the design phase of its offshore wind projects, TEPCO is supported with a digital framework for insights into costs, availability, and resource use during the operations and maintenance campaigns. A key task for TEPCO is the estimation of maintenance costs and vessel specifications, including the costs and specifications of Crew Transfer Vessels during operations.

TEPCO’s collaboration with Shoreline Wind marks a significant step toward more innovative and digitalized offshore wind operations. By using data-driven outputs strategically for O&M planning, TEPCO Renewable Power is supporting its offshore wind operations with reduced uncertainties and improved reliability.

MORE INFO shoreline.no



The Eco Edison vessel will serve as a floating, year-round home base for turbine technicians. (Courtesy: Revolution Wind)

MAINTENANCE

Revolution Wind completes milestone for multi-state project

Revolution Wind is marking the completed construction of the project's union-built advanced foundation components, the latest milestone for Rhode Island and Connecticut's first large-scale offshore wind farm and the first multi-state offshore wind farm in the nation.

Rhode Island also welcomed the arrival of the offshore wind service operations vessel, the Eco Edison.

"Revolution Wind is a win for Rhode Island's environment and our economy," said Gov. Dan McKee.

"We're excited by the progress of this project, which is supporting good-paying jobs and propelling our state toward a stronger blue economy and a more sustainable future." Ørsted and Eversource's Revolution Wind is directly creating roughly 1,200 jobs across Rhode Island and Connecticut and accelerating the states' clean-energy sectors with investments in workforce development, union partnerships, shipbuilding, and port infrastructure.

"I am delighted to participate in (the) event, which highlights the tremendous progress that the Biden-Harris Administration has made, along with our state and industry partners, toward achieving our goal of deploying 30 GW of offshore wind energy capacity by 2030," said BOEM Director Elizabeth Klein. "Today represents another step forward in providing clean-energy jobs

and investing in our coastal communities while strengthening America's energy security."

Revolution Wind will have the capacity to generate 400 MW of affordable offshore wind power for Rhode Island and 304 MW of the same for Connecticut, enough clean energy to power more than 350,000 homes across both states and bring each closer to reaching their climate targets. The Eco Edison, which will be based out of ProvPort during Revolution Wind's construction is an example of Ørsted's \$20 billion investment in building out an American clean-energy industry.

This first-ever American-built, owned, and crewed offshore wind service operations vessel will serve as a floating, year-round home base for the turbine technicians. These techs – Rhode Islanders among them



Vestas will deliver 18 wind turbines to the sites in the U.K. (Courtesy: Vestas)

– will work at sea over the life of the wind farms, servicing and maintaining the wind turbines. The vessel will play an integral part of the operation and maintenance of Ørsted and Eversource’s Northeast projects, using Port of Quonset, Rhode Island, as well as Port Jefferson, New York.

“Rhode Island is the birthplace of American offshore wind, and the state is continuing to harness the true potential of offshore wind to transform its ports, workforce, and economy,” said David Hardy, Group EVP and CEO Americas at Ørsted. “Thanks to our local union and supply-chain partners and our talented construction team, we’re building and delivering Revolution Wind. And it’s only fitting that the Ocean State will host our state-of-the-art, American-made service vessel, the Eco Edison, during the construction of

this historic project for New England.”

The Revolution Wind project site, about 15 miles south of the Rhode Island coast and 32 miles southeast of the Connecticut coast, is adjacent to Ørsted and Eversource’s South Fork Wind, America’s first utility-scale offshore wind farm. The site is expected to be in operation in 2025.

MORE INFO revolution-wind.com

► MANUFACTURING

Vestas secures 81-MW order for U.K. turbine project

Vestas recently secured an 81-MW order from Invenergy for the wind-en-

ergy project Pencloe in Dumfries and Galloway in Scotland. Vestas will deliver 18 V136-4.5 MW wind turbines, and the order includes supply, delivery, installation, and commissioning of the turbines. Upon completion, Vestas will service the turbines under a multi-year Active Output Management 5000 (AOM 5000) service agreement designed to ensure assets’ performance.

“We are delighted to achieve this key milestone in our collaboration with Invenergy,” said James Ian Robinson, country manager and director Sales UK for Vestas Northern and Central Europe.

“Vestas’ technology delivers a robust business case for the competitive U.K. electricity market. We look forward to the execution phase where we will continue our strong construction track record. We thank Invenergy for trust-

ing Vestas with their largest wind park to date in the U.K.”

“We are excited to be utilizing state-of-the-art Vestas turbines at the Pencloe Wind Energy Centre, which will be the largest Invenergy-developed project in the United Kingdom,” said Stuart Winter, vice president and country manager at Invenergy. “This project not only represents our mission to accelerate cleaner, more reliable and affordable energy, but also underscores our dedication to fostering positive community relationships and ensuring local economies benefit from our projects.”

Turbine delivery is expected to begin in the second quarter of 2025 with the project expected to be fully operational in early 2026.

MORE INFO www.vestas.com

MANUFACTURING

Sarens wind monopile factory to create more than 2,000 U.K. jobs

The construction of the SeAH Wind Monopile Factory will create 1,500 jobs during the supply chain and construction phases, and an additional 750 jobs once fully operational in 2026. This project, in the Teesworks industrial zone, is the largest monopile factory in the world, spanning a 90-acre site. Its main structure is 800 meters long and has the capacity to produce monopiles weighing up to 3,000 tons, essential components for installing offshore wind turbines.

Sarens, global leader and reference in crane rental services, heavy lifting and engineered transport, is involved in the construction of the factory on behalf of its customer Severfield UK and the owner of the facility, SeAH.

To perform the diverse tasks at the facility, the Sarens engineering team selected a range of cranes, including seven LTR1100 units, with a load capacity of up to 100 tons, seven LR130 units, one LTM1750, two LTM1650s,

which can lift up to 650 tons in a single load, as well as a CC2800 crawler crane. Sarens is using these cranes to lift structural parts and steel frames, which are being moved on site by self propelled modular transport.

The SeAH Wind monopile factory will play a crucial role in reducing the global carbon footprint through the production of components for offshore wind energy, one of the cleanest and most sustainable forms of power generation.

SeAH Wind has already established strategic agreements with offshore wind-power companies, such as Ørsted, to become the first and main customer for the monopile foundations manufactured at the U.K. facility. These partnerships are essential to ensure the long-term viability of the factory and to strengthen the offshore wind supply chain.

One of the main challenges of the job consists of the lifting site being exposed and susceptible to high winds.

To address this issue, Sarens worked with the crane manufacturer to obtain a wind-speed increase based on the crane configuration, lifting criteria (radius, capacity, etc.), and load characteristics (sail area, weight, load coefficient).

Sarens has extensive international experience in the assembly and maintenance of wind farms. It has participated in installations around the world and particularly in Europe, as in France (Saint Nazaire and Saint Briec) and the U.K., where its last project is now successfully completed.

Recently, Sarens has worked in the marshalling of 62 of the monopiles, each weighing 2,000 metric tons, the largest and heaviest XXL monopiles ever to be handled in the U.K., and now the 882-MW Moray West offshore wind farm, is well on its way to contribute to the Scottish renewable energy network. ↙

MORE INFO www.sarens.com

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