

# DIRECTION

THE FUTURE OF WIND

Vineyard Wind 1 will be using GE Renewable Energy's industry-leading Haliade-X wind turbine generators, the most powerful in operation to date. (Courtesy: GE)

# Vineyard Wind offshore project selects GE Renewable Energy to supply turbines

Vineyard Wind, a joint venture between Avangrid Renewables and Copenhagen Infrastructure Partners, recently announced that the company has selected GE as its preferred supplier of wind turbine generators for its Vineyard Wind 1 project, the first utility-scale offshore wind installation in the United States.

“The selection of GE as our preferred turbine supplier means that a historic American company will play a vital role in the development of the first commercial scale offshore wind power in the U.S.,” said Vineyard Wind CEO Lars T. Pedersen. “This is a huge moment not only for the future of our project, but also for the future of an industry that is poised for exponential growth in the coming decades.”

Vineyard Wind 1 will be using GE Renewable Energy’s industry-leading Haliade-X wind turbine generators, the most powerful in operation to date.

With this selection, GE Renewable Energy is poised to play a pivotal role in the development of offshore wind power in the U.S., which will be a major source of investments and job creation up and down the supply chain in communities across the region.

“GE Renewable Energy is proud to partner with Vineyard Wind for the first major offshore wind project in the U.S.,” said John Lavelle, president and CEO, Offshore Wind at GE Renewable Energy. “To be selected as the preferred supplier is an important sign of confidence for our proven technology and for all our employees around the world. We look forward to making this important contribution to the growth of offshore wind in the U.S.”

As a part of reaching this important milestone, Vineyard Wind has decided to temporarily withdraw its Construction and Operations Plan (COP) from further review by the Bureau of Ocean Energy Management (BOEM) to allow the project team to conduct a final

technical review associated with the inclusion of the Haliade-X into the final project design.

“While the decision to pause the ongoing process was difficult, taking this step now avoids potentially more federal delays and we are convinced it will provide the shortest overall timeline for delivering the project as planned,” Pedersen said. “We intend to restart the BOEM process from where we left off as soon as we complete the final review.”

The company expects its review to take several weeks, after which Vineyard Wind will resume the federal permitting process with BOEM. With buffer built into the project schedule, Vineyard Wind still expects to reach financial close in the second half of 2021 and to begin delivering clean energy to Massachusetts in 2023.

Vineyard Wind 1 is an 800-MW project 15 miles off the coast of Martha’s Vineyard and is slated to become the first large-scale offshore wind farm in the United States. The project will generate cost-competitive electricity for more than 400,000 homes and businesses in the Commonwealth of Massachusetts and is expected to reduce carbon emissions by more than 1.6 million tons per year.

**MORE INFO** [www.vineyardwind.com](http://www.vineyardwind.com)

## Timken launches \$75+ million in wind, solar investments

The Timken Company, a world leader in engineered bearings and power transmission products, recently announced more than \$75 million in capital investments through early 2022 to increase the company’s renewable energy capabilities across its global footprint.

“This has been a breakout year for us in renewable energy markets,” said Richard G. Kyle, Timken president

and chief executive officer. “Through both innovation and acquisitions over the last several years, we’ve become a leading supplier and technology partner in wind and solar energy, and it’s resulting in record sales and a robust pipeline of opportunities. This latest round of investments represents our confidence in the future growth of our wind and solar business as the world continues to transition to renewable energy sources.”

To serve Timken’s global renewable energy customers, the company has developed an extensive network of engineering and innovation centers and manufacturing facilities throughout the U.S., Europe, and Asia. Timken will use the announced \$75 million investment to:

- ▶ Expand its state-of-the-art and LEED-certified manufacturing facility in Xiangtan, China, where it makes engineered bearings for wind turbines.

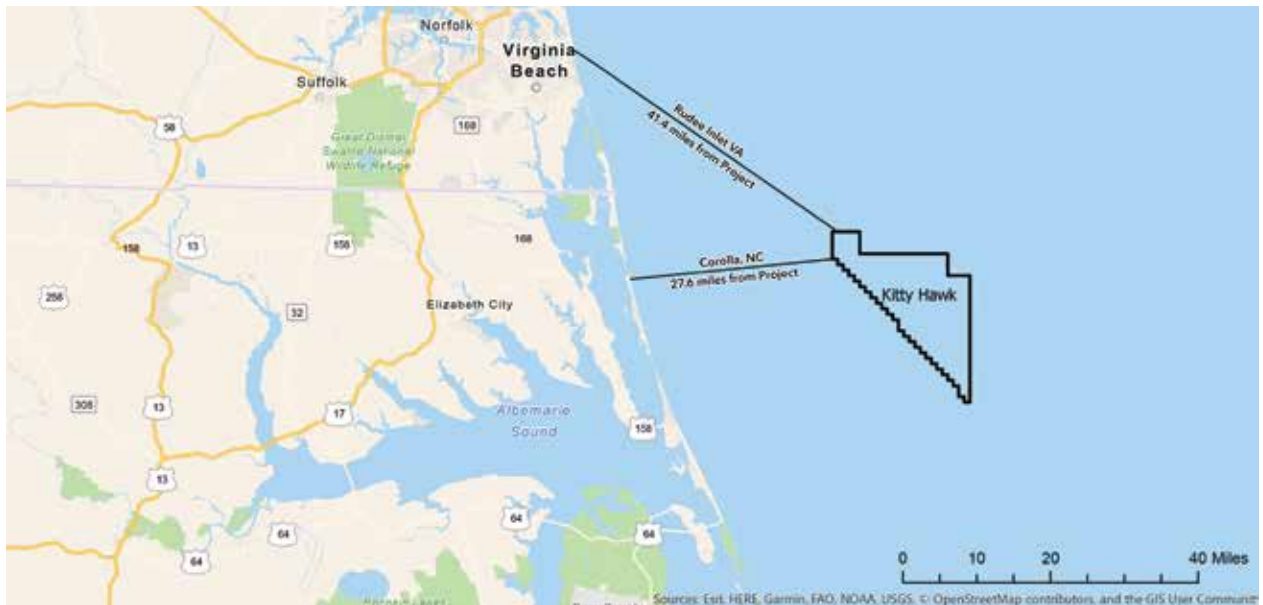
- ▶ Continue to scale-up its production capacity at sites in Wuxi, China, and Ploiesti, Romania, where Timken manufactures engineered bearings for wind turbines.

- ▶ Consolidate multiple sites into a new, larger campus in Jiangyin, China, to increase production capacity, broaden the product range and improve productivity for precision drives used in the solar energy market.

- ▶ All of the above investments will include advanced automation and manufacturing technologies.

Timken’s wind energy product portfolio includes engineered bearings, lubrication systems, couplings, and more. Timken has been active in the wind market for more than 10 years and is now a critical design and manufacturing partner to many of the world’s largest turbine and drive manufacturers.

Timken’s 2018 acquisition of Cone Drive launched the company’s leading position in the solar energy sector. Timken develops and manufactures precision motion control products



Kitty Hawk Offshore is an offshore wind project proposed more than 27 miles from the Outer Banks. (Courtesy: Kitty Hawk Offshore)

that provide solar-tracking system positioning for both photovoltaic (PV) and concentrated solar power (CSP) applications.

“Timken is known throughout the world for our ability to solve our customers’ most difficult friction-management and power-transmission challenges, and that includes deploying our advanced engineering and manufacturing technologies to help produce the world’s most efficient and reliable wind turbines and solar-energy systems,” Kyle said. “By continuing to invest and advance our technology, Timken will help the renewable energy industry improve efficiency, reduce cost and promote the growth of solar- and wind-energy sources.”

**MORE INFO** [www.timken.com](http://www.timken.com)

## Avangrid submits construction plan for Kitty Hawk project

Avangrid Renewables, a subsidiary of AVANGRID, Inc., a leading developer of onshore and offshore wind in the U.S., recently submitted a construction and operations plan (COP) to the federal Bureau of Ocean Energy Management

(BOEM) for the first phase of the company’s wholly owned Kitty Hawk Offshore Wind project.

The COP also includes the findings from an economic impact study (EIS), conducted by the Public Strategy Group, which anticipates substantial economic and employment benefits to result from the construction of Kitty Hawk Offshore Wind’s multiple phases between 2021 and 2030.

“We’re proud to be the first to submit a federal permit for a commercial scale offshore wind project in Virginia and the Carolinas,” said Bill White, Avangrid Renewables’ head of U.S. offshore wind. “Kitty Hawk Offshore Wind will deliver clean energy to customers in the region and significant economic benefits and quality jobs for decades to come.”

The first phase of the project, anticipated to begin construction as soon as 2024, will have the capacity to generate approximately 800 MW of electricity.

When all phases are complete, Kitty Hawk Offshore Wind is expected to have a total generation capacity of up to 2,500 MW, or enough to power 700,000 homes — approximately four times the number of households in Virginia Beach

— with clean energy.

“The offshore wind industry presents tremendous opportunity to the Hampton Roads region,” said Doug Smith, president and CEO of the Hampton Roads Alliance. “I look forward to working with Avangrid Renewables as they develop the Kitty Hawk Offshore Wind project and deliver substantial economic benefits to the Hampton Roads region.”

The EIS found that the project will drive significant economic activity and employment opportunity in the region. Kitty Hawk Offshore Wind is expected to generate \$2 billion in economic impact between 2021 and 2030 and is expected to create nearly 800 jobs in Virginia and North Carolina, with nearly 600 of those in the Hampton Roads region which includes southeastern Virginia and northeastern North Carolina.

**MORE INFO** [www.kittyhawkoffshore.com](http://www.kittyhawkoffshore.com)

## Siemens Gamesa appoints Marc Becker as CEO of Offshore

Siemens Gamesa Renewable Energy recently announced that Marc Becker

is to return to the company as CEO of its industry-leading offshore business.

Becker served as managing director for Germany and head of Offshore Sales and Projects at Siemens Gamesa before leaving the company in early 2020. In the latter role, and previously as COO of Siemens Wind Power, Becker played a key role in building the company's strong leadership position in the rapidly growing offshore segment.

Becker, who is to be the permanent replacement for Andreas Nauen, who was promoted to CEO of the company in June, will be based in Hamburg and start his new role February 1. Pierre Bauer will continue as interim CEO in the meantime.

"I am delighted to bring Marc back to the company to lead offshore," Nauen said. "He has an outstanding track record in offshore wind energy and has the experience, expertise, and industry network to lead our future growth in this critical area. With the addition of Marc, we will complete a strong and revitalized team to lead the turnaround that will deliver long-term sustainable growth and profitability to Siemens Gamesa."

"Siemens Gamesa is the undisputed leader in offshore wind, and I'm looking forward to rejoining the company and working to extend that leader-

ship," Becker said. "There is huge potential for offshore wind to lead the fightback against climate change, and with the talented team at Siemens Gamesa as well as the industry's best technology, we are well positioned to play a leading role."

Becker will join a senior management team that was overhauled in the second half of 2020. Lars Bondo Krogsgaard, former CEO of Nordex

Acciona and co-CEO of MHI Vestas, joined as CEO of onshore earlier in November. Juan Gutierrez took over as CEO of Service in August.

Beatriz Puente joined as Chief Financial Officer on December 1 from NH Hotels, where she has served as Executive Managing Director Finance & Administration since 2015. ↘

**MORE INFO** [www.siemensgamesa.com](http://www.siemensgamesa.com)



Marc Becker (Courtesy: Siemens Gamesa)



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