


# DIRECTION

THE FUTURE OF WIND



Each seabed lease site would abate tens of millions of tons of CO2. (Courtesy: Cerulean Winds)

# Cerulean Winds to bid for four seabed lease sites for offshore development

Green-energy infrastructure developer Cerulean Winds will bid for four seabed lease sites to decarbonize the U.K.'s oil and gas sector as this scale will remove more emissions quickly, keep costs lower for platform operators, and provide the anchor for large scale North-South offshore transmission.

The floating offshore wind and green energy proposal for Crown Estate Scotland's Innovation and Targeted Oil and Gas leasing round (INTOG) includes four 1.5 GW sites of floating wind power.

With more than £6 billion of investment proposed for each 100-turbine site, the scheme would abate tens of millions of tons of CO<sub>2</sub> in line with North Sea Transition Deal targets.

Cerulean Winds, with its selected delivery partner NOV, has been engaging the supply chain for more than 18 months and has a live request for information (RFI) with U.K. yards for the fabrication and assembly of its tri-float technology.

The development would create more than 10,000 jobs, many of which would be high value manufacturing jobs in Scotland.

"We have a big, bold bid, which is ready to go on scaling the green economy, creating thousands of jobs and making Scotland's oil and gas production the cleanest in the world," said Dan Jackson, Cerulean Winds founding director. "We are absolutely committed to the local supply chain benefiting from this development and far surpassing local content targets. Our base structure design can be floated in very shallow water depths suitable for the U.K., unlike alternative cement floating wind structures which require 90 meters so can't be built here."

"There is a lot of concern about rising energy prices and energy security," he said. "Wind and green energy at this scale are a big part of the solution. We are engaging with oil and gas operators and can see the appetite is there

to get behind cleaning up production, and we can deliver in a way that minimizes disruption. Whilst smaller piece-meal wind developments are useful for testing concepts or innovations, it will take a U.K.-wide solution to remove the emissions at the pace required to hit the net-zero targets governments. Furthermore, our large-scale scheme lowers the LCOE — cost of the power — which is highly attractive to the operators."

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

## DNV names climate equity associate director

DNV has named Cici Vu as an associate director of energy and climate equity.

Vu has more than a decade of experience across climate change, water and air quality, energy, natural resources, transportation, housing, homelessness, public health, and safety sectors. An experienced mediator and facilitator, she works with utilities, public agencies, and investors, who are benefactors and advocates of clean-energy investments, which consider and engage vulnerable and hard-



DNV has welcomed Cici Vu to its Energy and Climate Equity Team. (Courtesy: DNV)

impacted communities. Vu helps stakeholders navigate politically complex environmental, social and racial conflict, and large-scale, collaborative programs involving government agencies, philanthropic entities, and underserved/environmental justice communities.

"We consume energy as pervasive-ly as we do water, air, and food for our

basic health and well-being," Vu said. "Yet, egregiously, more than one-third of our communities in the U.S. face basic, yet wrenching trade-offs: heat or eat? To achieve an equitable energy transition, our frontline communities must be empowered to self-determine the solutions right for them."

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

## TÜV NORD prepares assessment for Philippines wind farm

TÜV NORD has prepared an energy yield assessment for one of the first large wind farms in the Philippines for the Bremen-based project developer and operator of wind and solar farms wpd and cooperation partner Triconti ECC Renewables Corporation. The AEP report (annual energy production) is very important for the planning of a wind farm in order to estimate the wind conditions at the planned site and to calculate the expected energy yields. Site assessment experts from TÜV NORD GROUP in Hamburg and Athens worked closely together to produce the technically demanding report for the project.

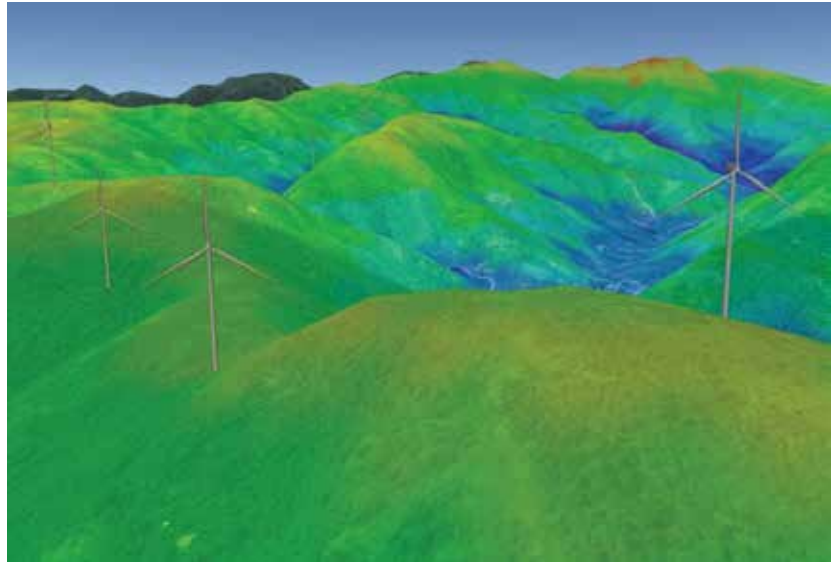
The Aklan wind farm is being built in a hilly area on the north-western tip of Panay Island at an altitude of between 123 meters to 362 meters above sea level. According to wpd, commissioning is scheduled for the end of 2025 or the beginning of 2026.

As the wind-farm area is considered a complex terrain according to IEC classification, CFD (Computational Fluid Dynamics) modeling was carried out for the project by wind-energy experts in Athens. The results of this flow modeling were then used for further calculations in Hamburg.

The yield assessment was based on wind measurements that wpd and its cooperation partner Triconti ECC had previously collected at the planned

site using several measuring masts and Lidar devices. The combination of two measurement methods and also the correlation among the data sets enabled a comprehensive picture of the wind conditions in the challenging terrain. With these evaluations and the CFD modeling, the Hamburg site assessment experts of TÜV NORD determined the wind potential at the respective locations of the planned wind turbines and thus predicted the expected energy yield.

MORE INFO [www.tuev-nord-group.com](http://www.tuev-nord-group.com)



TÜV NORD created a visualization of the wind farm. (Courtesy: TÜV NORD)

## BASF to supply clean energy to 20-plus U.S. sites

BASF is committed to renewable energy solutions to power its sites across the United States and has entered into virtual power purchase agreements (VPPAs) for wind and solar power total-

ing 250 MW. They are designed to offset the carbon-intensive grid-supplied electricity being used at more than 20 of BASF's manufacturing sites in sever-

al states across the country, from Texas to Michigan.

"Renewable energy is an essential tool to reach BASF's ambitious goal

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of net zero emissions by 2050,” said Michael Heinz, member of the board of executive directors, BASF SE and chairman and CEO of BASF Corporation. “We are committed to further improving our energy footprint in the region, and we are eager to drive the energy transition for chemical manufacturing in North America.”

The combined agreements for the output of 250 MW of renewable generation capacity will result in the purchase of more than 660,000 MWh of electricity per year – the equivalent of electricity consumed by more than 90,000 average U.S. households. Based on EPA estimates, the VPPAs will offset more than 472,500 metric tons of CO2 emissions annually. With these agreements in place, the share of renewable energy in BASF’s total North American electricity consumption will rise to more than 25 percent.

“These agreements help us reach our clean-energy goals in areas where the local electric utility does not supply adequate renewable power,” said Tobias Dratt, president of BASF North America. “At the same time, our financial commitment enables the realization of large solar- and wind-power projects and adds clean energy to the grid.”

To realize its ambitious emission goals, BASF is collaborating with various partners who are driving the sustainable change of the energy sector. The chemical company will purchase 100 MW of power generated by Dawn Solar. An additional 150 MW of renewable energy capacity will be added through transactions with EDF Energy Services.

Last year, a collaboration with EDF Energy Services added 35 MW of wind capacity to the energy mix for BASF’s manufacturing sites in Freeport and Pasadena, Texas. In another joint project with EDF Renewables, BASF’s property in Toms River became home to New Jersey’s largest solar project and the largest solar project built on a Superfund site in the United States.

BASF aims to reduce its greenhouse gas emissions by 25 percent compared with 2018 by 2030 and achieve net-zero

emissions by 2050. One important lever to bring down emissions is to replace fossil-based electricity with fossil-free electricity. BASF aims to secure the required amounts of renewable power it needs through a “make and buy” approach.

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

## Crowley names Karl as senior VP and GM of Wind Services

Crowley has appointed Bob Karl as senior vice president and general manager of the company’s new business unit, Crowley Wind Services. As Crowley el-



Bob Karl (Courtesy: Crowley)

evates the scope of its offerings in wind energy, Karl will lead the company’s wind services team in the strategic development and expansion of services to support the emerging sector.

The development of a wind service business unit emphasizes the importance of wind to Crowley’s diverse portfolio to customers and the company’s commitment to clean-energy services. The company will continue to leverage its expertise and assets to provide landside and marine logistic solutions throughout the wind lifecycle. These include solutions for port terminals and marshaling, vessel development and operation, engineering, and the U.S. workforce.

Karl is a long-time energy industry leader, serving more than two decades in various global leadership and management roles at GE, as well as other renewable energy and manufacturing roles. From 2011 to 2018, he was North American wind-projects director for GE Renewable Energy and most recently served as COO of GE Renewable Energy Global Services since 2018. ✈

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



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