

DIRECTION

THE FUTURE OF WIND



The offerings provided by Semco Maritime may include studies related to how to transmit offshore wind power to the onshore power grids factoring in the balance between project capital versus operational expenditures and asset availability. (Courtesy: Semco Maritime)

Semco Maritime adds new business area for offshore wind

Semco Maritime plans to leverage two decades of offshore wind project experience into a new business area focusing on the concept and feasibility phases of offshore wind projects.

Semco Maritime has a significant footprint in the offshore wind market, providing EPC solutions for offshore high-voltage substations (in cooperation with long-term partners Blatt Industries and ISC Consulting Engineers) as well as services and maintenance for offshore wind balance of plant. All in all, these business areas have been part of Semco Maritime's offerings for almost two decades, and adding a new business area dedicated to concept and feasibility studies extends Semco Maritime's offerings to cover almost the full life cycle of any offshore wind project.

"We have found that our unique in-house technical skills and experience can be leveraged into the early concept phases of developing offshore wind sites, ensuring that proper considerations are evaluated and that the right decisions are taken at an early stage," said Tommy Flindt, director of Technology, Offshore Wind. "We have decades of successful EPC experience and feedback from sites in operation, and it will all be available to the benefit of our customers."

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"The studies for the offshore wind market cover a wide range of technical disciplines," Flindt said. "As for some selected competencies, we are partnering with other strong engineering companies in the market. These partnerships have already been tried and tested on a number of successfully delivered studies for the European, Taiwanese, and U.S. offshore wind markets where our EPC and service

experience has created good value and been of benefit to our customers."

The new business area and selected references have been introduced to the Semco Maritime website.

MORE INFO www.semcomaritime.com



In December 2018, Mayflower Wind won the rights to develop a lease area that can support up to 1,600 MW of offshore wind more than 20 miles south of Martha's Vineyard. (Courtesy: Mayflower Wind)

Mayflower Wind offers Massachusetts low-cost options

Mayflower Wind Energy LLC, a joint venture of Shell New Energies US LLC and EDPR Offshore North America LLC, recently provided the public version of its bids into the Commonwealth of Massachusetts' second round of the Section 83C offshore wind-development procurement process. Mayflower Wind submitted three 800-MW proposals as well as a 400-MW proposal to the Massachusetts electric utilities. The publicly available versions of the Mayflower Wind bids are available online.

"We are very excited to submit these proposals to provide the utilities implementing the Commonwealth's offshore wind policy with a range of options," said John Hartnett, president of Mayflower Wind. "The low-price energy proposal includes strong support for research, workforce training, and economic development. Our infrastructure and innovation proposal

adds significant strategic investments in port infrastructure and technology to the South Coast, boosting the fledgling offshore wind industry and the economy of the Commonwealth. Finally, our Massachusetts manufacturing proposal would further accelerate the process of Massachusetts assuming a leadership role in offshore wind by including a major new manufacturing facility that would serve both domestic and foreign offshore wind markets."

In the months since Mayflower Wind acquired a federal offshore wind lease, it has engaged with the fishing industry, local communities, tribal representatives, and local governments on the South Coast and Cape Cod, completed conceptual design of an entire offshore wind farm, filed for initial permits with the federal regulatory agency, and begun the process of pre-construction surveys.

Mayflower Wind brings deep experience and skills of its parent companies, Shell and EDP Renewables, to Massachusetts. These include successfully developing, permitting, financing, constructing, and operating offshore and onshore wind projects and offshore production facilities. Mayflower Wind draws on the experience of its parent companies who have the combined strength of more than 18,000 U.S. employees, a supply chain of more than 5,000 U.S. companies of which more than 800 are small businesses or women- and minority-owned enterprises, \$400 billion in market capitalization, experience operating 6,300 MW of onshore wind in the U.S. and ongoing development and construction of 2,700 MW of offshore wind projects in France, the Netherlands, Portugal, and Scotland that are anticipated to be operational between now and 2023. This powerhouse combination gives Mayflower Wind the tools it needs to deliver projects in a safe, environmentally responsible, and timely manner.

MORE INFO www.mayflowerwind.com

Industry defies difficult market at HUSUM Wind

At the recent HUSUM Wind 2019, trade visitors used the four days of the fair to find out about technical innovations and products from about 600 exhibitors from 25 countries. The focus of the fair was on the German-speaking

core market.

“We are very satisfied with the number and quality of exhibitors and trade visitors,” said Arne Petersen, managing director of Husum & Congress. “Despite the current market situation, visitor numbers are surprisingly stable compared to 2017.”

In a difficult time, in which the industry is experiencing strong headwinds, exhibitors along the entire

value chain have with their presence at HUSUM Wind demonstrated confidence in the core market.

“The industry has delivered; it is clearly turning around,” Petersen said.

“HUSUM Wind is still very attractive in its 30th year,” said Hermann Albers, president of the German Wind Energy Association. “With strong innovations from all areas of the value network, the companies have shown what potential there is in wind energy.”

Matthias Zelinger, managing director of VDMA Power Systems, said that, with a view to the future in the five exhibition halls, it had “become clear what wind power can contribute, far beyond the electricity system, to climate protection and sustainable energy supply.”

The potential for new products and business models was also reflected in the number of participants in the Young Innovative Businesses Forum this year. With 24 participating startups, the platform at HUSUM Wind was one of the top 10 JiV forums nationwide. HUSUM Wind also confirmed its reputation as a sales fair.

Companies reported business transactions directly from the fair as well as good contacts and discussions, especially on the second and third days of the fair. For example, on the first day, a contract was signed for four wind turbines, each with an output of 3.6 MW. By the time the gates of the trade fair closed, it was expected that up to 18,000 trade visitors would have visited HUSUM Wind.

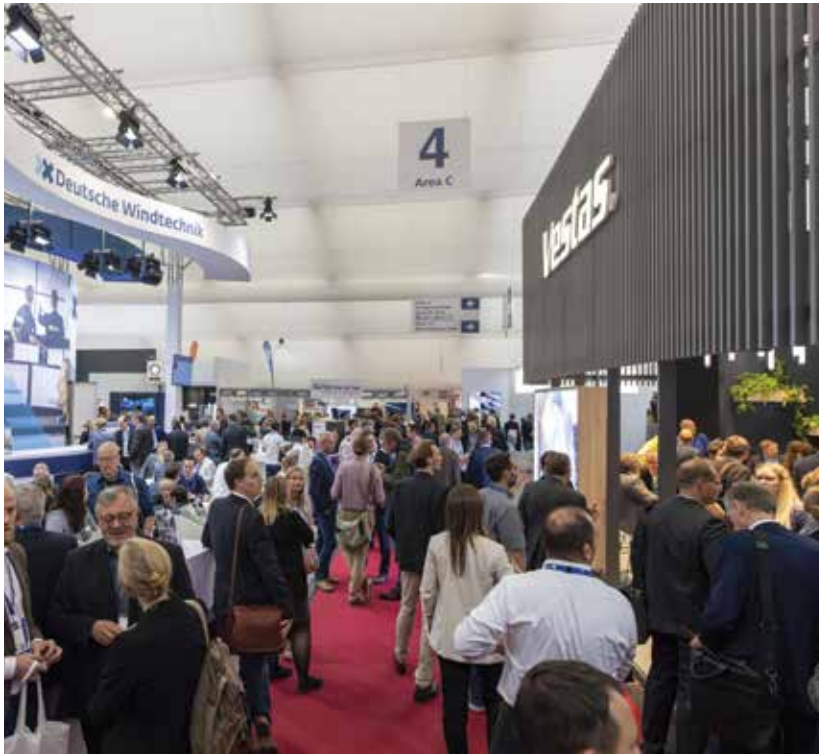
The next HUSUM Wind will be September 14-17, 2021, when the special themes of this year’s fair, hydrogen, digitalization, and repowering, will be sharpened even further.

MORE INFO www.husumwind.com

NREL selects project to address challenges of wind-wildlife

The U.S. Department of Energy’s (DOE’s) National Renewable Energy





HUSUM Wind mirrors the entire value chain of the onshore and offshore industry in the areas of plant construction, service, planning, financing and operation, plant components as well as raw materials. (Courtesy: HUSUM Wind)

Laboratory (NREL) has selected a new project to advance early-stage technologies for wildlife monitoring and minimization at wind-energy facilities.

This project is part of the Technology Development and Innovation program, which is funded by the DOE's Office of Energy Efficiency and Renewable Energy's Wind Energy Technologies Office (WETO) and managed by NREL. In addition to funding, the program provides recipients access to NREL facilities and expertise to develop emerging technologies that detect and deter birds and bats at wind farms.

Selectees in this program have the opportunity to conduct research at NREL's National Wind Technology Center at the Flatirons Campus, which is home to world-class researchers, wind turbines, instrumentation, and testing capabilities, as well as extreme weather conditions that allow for testing and validation in all conditions.

The selected project will run for 18 months and will conclude with a



The Technology Development and Innovation program at DOE's National Renewable Energy Laboratory supports efforts to reduce the impact of wind technologies on wildlife such as birds and bats. (Courtesy: NREL 35730)

technical report and webinar or public presentation on the results.

Learn more about WETO's work to assess and mitigate wind's environmental impacts, and find out more about the project that was selected. 🐦

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