James Fisher and Tokyo Gas Engineering Solutions have signed a joint collaboration agreement to deliver offshore wind operations and maintenance services in Japan. (Courtesy: James Fisher Renewables and Tokyo Gas Engineering Solutions)

CONSTRUCTION

James Fisher, Tokyo Gas to collaborate

James Fisher and Sons and Tokyo Gas Engineering Solutions have signed a joint collaboration agreement to provide construction and operations and maintenance (O&M) services.

The partnership, signed in Tokyo February 6, will focus on Japan's offshore wind market, aligned to the region's target of delivering 10 GW of offshore wind by 2030. Together, James Fisher and TGES will support customers to deliver efficient and effective operations at a crucial point in time for the industry, with a significant number of projects due to be under construction or operational by the end of 2030.

"We are excited to partner with TGES at such a crucial time in the country's energy transition, recognizing that industry collaboration is a critical enabler to delivering 36 to 38 percent of total energy capacity from renewables, by 2030," said Jean Vernet, James Fisher CEO. "James Fisher will provide the guidance, expertise and exceptional services, alongside TGES' strong engineering expertise, extensive local knowledge and established supply chain, providing customers with high-quality, cost-effective construction support and O&M services. This not only builds on our capability to deliver offshore wind services in Japan; it aligns with our long-term ambitions for the Northeast Asia Pacific region."

"Offshore wind plays a crucial role in the decarbonization of Japan and its stable operation is critical to supporting energy decarbonization. TGES' strength in engineering and O&M know-how in energy infrastructure, combined with James Fisher's extensive capabilities in offshore operations, will provide significant value in terms of low cost and high reliability for offshore wind projects, an important renewable energy source in Japan," said Yasuhiro Konishi, TGES CEO.

The James Fisher Renewables team has already delivered 29 offshore wind projects in Asia Pacific through its local Taiwanese office, with a global portfolio of 6.1 GW. The company's knowledge of the offshore wind sector will complement TGES' experience in liquefied natural gas and gas-fired power plants, alongside established local infrastructure and deep-set understanding of the Japanese market, particularly in engineering and O&M.

To further support this partnership, and in response to the growing skills gap facing the offshore wind industry,

The enerpac tower flange alignment tool deployed to correct tower section ovalization problems. (Courtesy: Enerpac)

engineers will be given the opportunity to enroll in the James Fisher Academy Senior Authorized Person pathway, which offers online, classroom, and field-based learning to provide employees with critical skills.

MORE INFO www.james-fisher.com

CONSTRUCTION

Enerpac introduces wind-turbine tower alignment tool

Enerpac has introduced the wind turbine tower flange alignment tool (TFA), allowing wind-farm installation contractors to eliminate costly project delays caused by non-conformity or ovalization of wind-turbine tower sections. The TFA solves bolt-hole misalignment problems by aligning the large internal pipe flanges between tower sections during assembly, allowing them to be bolted together.

Problems of misalignment are often only discovered during wind-turbine tower assembly. It is a growing problem for a wind industry sourcing tower components globally. Turbine towers are made up of cylindrical pipe sections with internal bolted flange connections bolted together. During fabrication, the tower sections can become ovalized, rather than perfectly cylindrical, especially if they are laid down for storage or transportation for an extended period.

The Enerpac tower flange alignment tool is built to aid the alignment of large flanges on the inside of wind-turbine towers during assembly and installation. It can be used onshore and offshore for aligning/de-ovalizing large internal pipe flanges up to 65mm. Reflecting the breadth of wind-turbine towers, there are a range of flange alignment tools: mechanical (hand operated) up to 4.5-ton alignment force, 13.5-ton, 16.9-ton, and 20.5-ton alignment force.

"Contractors are buying monopiles and transition pieces (TPs) from all around the world; when delivered, they find boreholes are misaligned and TPs are oval rather than circular," said Erik

Weidmuller USA's BLADEcontrol monitoring system with web-based visualization provides powerful insights on the condition of wind turbine blades. (Courtesy: Weidmuller)

Roos, director Wind Industry Tools & Solutions (EMEA), Enerpac. "The Enerpac wind turbine tower flange alignment tool enables installers to make corrections onsite or offshore quickly and efficiently."

Weighing as little as 40 pounds, the Enerpac tower flange alignment tool is supplied in a handheld carry case. The 4.5-ton alignment force, hand-operated mechanical TFA includes a torque wrench. Higher alignment forces TFA requires an external hydraulic pump such as the portable, battery powered, Enerpac SC-Series.

MORE INFO www.enerpac.com

INNOVATION

Weidmuller set to showcase products at CLEANPOWER 2024

Weidmuller USA, a provider of smart industrial connectivity and automation solutions headquartered in Richmond, Virginia, will be exhibiting at CLEANPOWER 2024 in Minneapolis, Minnesota. Weidmuller will showcase some of its latest solutions for the clean power industry: BLADEcontrol® rotor blade monitoring system with WebVis data visualization, the Weidmuller Battery Connector (WBC), PV DC Combiner Boxes, and LED lights for wind-turbine use.

The BLADEcontrol rotor blade monitoring system has been used to increase the yield of 5,900 wind turbines since 2004. With BLADEcontrol, customers can detect performance and structural issues for blades and turbines such as aerodynamic imbalances, trailing edge cracks, spar web delamination, blade bearing damage, blade tip damage, and pitch and yaw alignment deviations. With the BLADEcontrol system, customers gain access to the WebVis data visualization and analysis suite. The overview dashboard highlights single turbine and fleet-wide diagnostics, allowing the detection of anomalous behavior, reducing unplanned downtime.

With the addition of the Weidmuller Battery Connector, Weidmuller offers a full suite of energy storage products to cover the power, data, and signaling needs required in a wide array of battery energy storage system applications. The WBC facilitates the transfer of electrical energy between the battery cells and the application, allowing the connection of the battery modules in a few steps. Whether in smaller storage systems for home use or in large battery containers, the WBC covers a range of applications with its sizes from 100A up to 350A.

Weidmuller's durable LED lights offer a ready-to-fit solution for lighting, emergency lighting, and power supply. This collection of LED lights includes the FieldPower® Mono LED RC, FieldPower Duo LED RC, Weidmuller Industrial Power LED, and Weidmuller Industrial Tube LED. The FieldPower MONO and DUO LEDs are available with round connectors, designed for illuminating the tower and hub of a wind turbine generator.

Weidmuller will be at booth #1128 at CLEANPOWER 2024.

MORE INFO www.weidmuller.com

INNOVATION

Fraunhofer conducts boulder detection campaign

The Fraunhofer Institute for Wind Energy Systems IWES has conducted a boulder detection campaign in the Baltic Sea on behalf of Baltic Power

for the foundations of Baltic Power's planned wind turbines.

It applied the surveying technology along the planned subsea cable routes for the first time. The Manta Ray G1 measuring system allows the detection of boulders up to 100 meters below the seafloor, as well as the survey of shallower objects along cable corridors. The technology, developed by Fraunhofer IWES, makes it possible to minimize risks posed by boulders during the installation of wind turbines, offshore substations, and cables.

It is necessary to investigate how many potential rocks are in the immediate vicinity of the planned corridors in the subsurface and determine the locations of boulder fields. The cable-laying ships can then lay the power cables along the explored corridors while avoiding the detected boulders.

Baltic Power, a joint venture project between ORLEN and Northland Power, is planning to install an offshore wind farm in the Baltic Sea with a total capacity of up to 1.2 GW. The farm will be comprised of 76 wind turbines and two offshore substations. Boulders in the area can pose risks during the installation process, and the cable corridors also need to be surveyed to ensure the subsea cables can be installed with the lowest risks.

The Manta Ray G1 measuring system detects boulders in the seafloor. (Courtesy: Fraunhofer Institute)

The cables connect the wind turbines to the OSS and those, in turn, to the power lines on land. The project got underway in January 2023, and

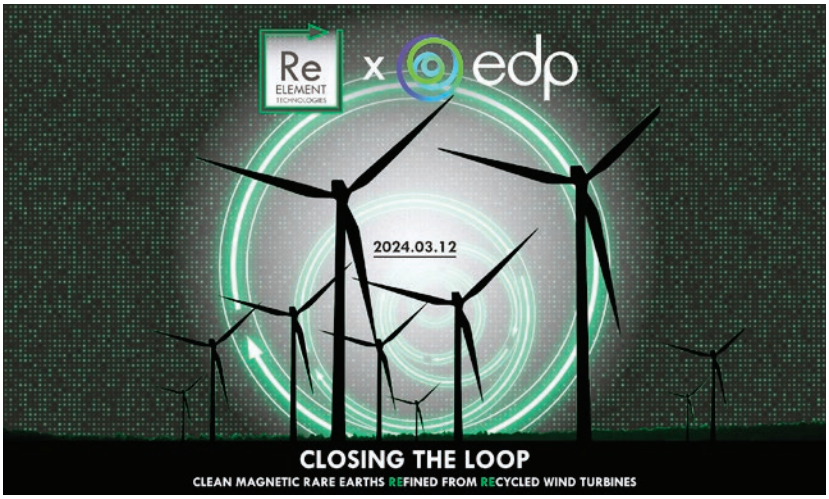
the IWES project team completed the required offshore data acquisition in summer 2023, which was followed by data processing and interpretation.

The Manta Ray G1 measuring system allows the scientists at Fraunhofer IWES to locate boulders at depths of up to 100 meters below the seafloor. The Manta Ray G1 comprises a towed array equipped with seismic sensors (hydrophones) and positioning systems. During the acquisition, the hydrophones pick up the sound waves emitted by a signal source and reflected or diffracted by the subsoil. This makes it possible to map the sediment layers and to detect rocks in the sub-seafloor. This method of diffraction imaging allows tracing of the acoustic energy diffracted by the boulders to its point of origin.

The IWES team also surveyed subsea cable corridors with the Manta Ray G1 technology for the very first time. For the customer, detection of boulders along the cable routes is equally important.

"We are proud to be able to help the renewable industry implement windfarm projects faster and in a more efficient manner, thereby minimizing risks," said project coordinator Gino Frielinghaus, head of department sub-surface Investigations at Fraunhofer IWES. "Our research work and successfully completed industry projects continue to validate our method, and we also satisfy industry requirements more comprehensively. This motivates us to further improve our seismic measurement methods, and we look forward to applying our expertise in further project."

MORE INFO www.iwes.fraunhofer.de/en



ReElement and EDP's focus is efficient recycling of neodymium-based permanent magnets from decommissioned wind turbines. (Courtesy: ReElement Technologies, EDP Renewables)

INNOVATION

ReElement, EDP Renewables team up

ReElement Technologies Corporation, a provider of high-performance refining capacity of rare earth and critical battery elements, has partnered with EDP Renewables North America, a North American leader in the renewable energy sector, to advance sustainable practices in the wind-energy sector through the EDPR NA's Close the Loop Program. The focus of this collaboration is efficient recycling of neodymium-based permanent magnets from decommissioned wind turbines into magnet-grade rare earth elements, contributing to the development of a circular supply chain for renewable energy equipment and inputs.

The partnership leverages EDP Renewables' expertise in wind energy and ReElement's advanced critical mineral refining technology for rare earth and critical battery element. Neodymium-based permanent magnets, commonly used in clean-energy applications such as wind turbines and electric vehicle motors to enhance efficiency, are critical components of the renewable energy landscape. By recycling these magnets, EDP and ReElement aim to reduce the environmental impact associated with the production and disposal of wind-turbine components as well as the primary extraction and common processing methods used in the production of critical and rare earth mineral inputs.

"We are thrilled to partner with EDPR to address the environmental challenges associated with neodymium-based permanent magnets," said Chris Moorman, ReElement chief commercial officer. "ReElement's critical mineral refining process is a game-changer, providing a sustainable solution for recovering and refining a broad range of critical minerals. Our flexibility to refine multiple feedstocks utilizing a smaller, scalable, and significantly more environmentally safe method enables us to provide valuable solutions to the supply chain challenges we face today. Our approach not only facilitates the recycling of wind-turbine components but also significantly reduces the environmental footprint. We applaud EDPR NA and are thankful to have this collaborative opportunity to lead the world in delivering real solutions. The next generation of the electrified economy relies on responsible practices, and through this partnership, we are collectively setting a new standard for sustainability in the renewable energy sector."

EDPR NA and ReElement anticipate that this collaboration will set a precedent for responsible and sustainable practices in the renewable energy sector, fostering a circular economy that extends the life cycle of the critical and rare earth elements required to fuel technology. Unlike traditional mining and processing methods, mostly used in China, ReElement's process of

recycling permanent magnets is about three times more environmentally safe, aligning with the commitment to sustainable practices in the renewable energy industry.

MORE INFO www.reelementtech.com
www.edpr.com/en

INNOVATION

Transponder controls obstacle lights for Netherlands wind farm

Lanthan Safe Sky's transponder system (known as the aircraft detection lighting system) at Wind Farm Koningspleij in Arnhem, Netherlands has been activated. Thanks to this system, the red obstacle lights of the wind turbines only turn on when aircraft traffic is detected. This significantly reduces the nuisance of the red lights for those living near the wind farm. The Environment and Transport Inspectorate (ILT) has approved the detection system at the four wind turbines.

"We have actively informed the operators of the Gelderland wind farms about the subsidy for aircraft detection," said Ans Mol, Gelderland energy deputy. "The aircraft detection lighting system contributes to support at wind farms, and we aim to minimise nuisance as much as possible."

The Climate Agreement states the 30 RES regions will generate 35 TWh of renewable energy on land in the Netherlands by 2030. Gelderland's total ambition in 2030 is 6.5 TWh, of which about 2.5 TWh will come from wind energy.

Wind turbines with a tip height of more than 15 meters, as at wind farm Koningspleij, must by law be fitted with obstacle lighting. This lighting makes the wind turbines visible to air traffic. When an aircraft approaches the wind turbine at dusk or at night, the obstacle lighting switches on. And it switches off again when no aircraft is flying near the wind turbine.

A positive collaboration between the ILT and all parties involved, as well as a test flight, led to approval of the transponder system.

Lanthan Safe Sky's aircraft detection lighting system offers relief for residents. (Courtesy: Koningspleij Wind Farm)

Koningspleij Wind Farm generates clean energy for about 13,000 households in the region. Together, the four wind turbines can generate 34.5 million kWh of energy per year, more than 5 percent of the total electricity consumption in Arnhem.

Three of the four wind turbines at Koningspleij Wind Farm were built together with residents from Arnhem and the surrounding area. There are 575 co-owners who participate in the wind farm through Rijn en IJssel Energy cooperative.

MORE INFO www.windparkkoningspleij.nl

INNOVATION

Vaisala, DNV unveil guidelines for scanning Lidars

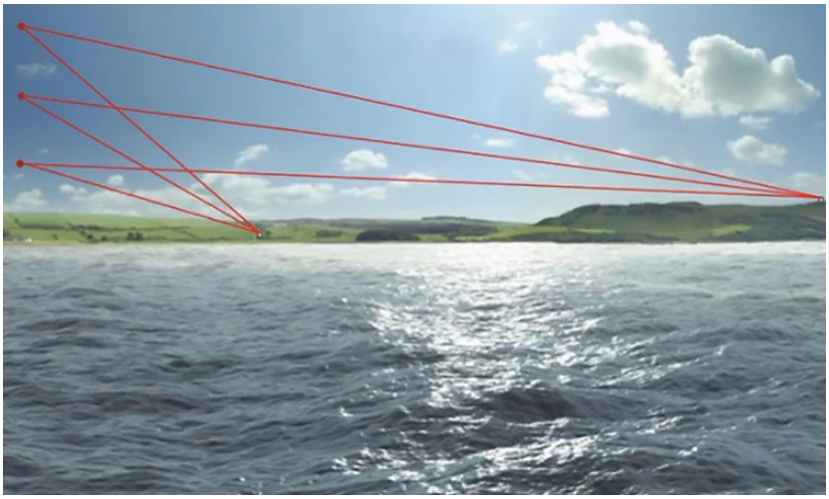
Vaisala and DNV have released extensive guidelines for using scanning Lidars in a dual system configuration (DSL) for offshore wind resource assessment (WRA). The release of these guidelines helps improve dual scanning Lidar bankability and contributes to creating the International Energy Agency Task 52, recommended practice on using scanning Lidar measurements offshore.

Dual scanning Lidar is increasingly replacing meteorological masts for offshore wind park developments near the shore (up to 15 kilometers), enabling offshore wind-project developers to reduce extrapolation uncertainties and gain a more comprehensive picture of the wind resource at the planning areas. A major advantage is DSL can measure the wind speed and direction at multiple offshore locations remotely from the shore.

The guidelines detail a typical campaign workflow and the individual steps to maximize reliability and minimize uncertainties before a campaign begins, facilitating decision-making and making DSL technology more accessible to stakeholders across the wind energy sector.

The collaborative document outlines the different phases of a typical DSL campaign for wind resource assessment:

- Campaign planning.
- Lidar pre-campaign verification.
- Installation and commissioning.
- Operation and monitoring of the specific measurement campaign.
- Data processing.
- Uncertainty evaluation.
- Decommissioning and post-campaign verification.



Vaisala and DNV's collaboration outlines the different phases of a typical DSL campaign for wind resource assessment. (Courtesy: Vaisala, DNV)

The Dual Scanning Lidar Principle section explains the math for reconstructing horizontal wind speed and direction from two line-of-sight wind speed measurements, discussing factors influencing uncertainty such as beam geometry, mode of operation, scan parameters, and environmental conditions. The document also emphasizes proper setup, alignment checks, performance monitoring, data collection, and maintenance procedures and provides proprietary methods to calculate uncertainties of intermediate and final reconstructed values.

MORE INFO www.vaisala.com

INNOVATION

Axess wins floating wind platform contract

Axess Technologies has won a concept engineering study contract with Wind Catching Systems, a developer of floating offshore wind technology.

The scope of work entails an advanced handling system capable of efficiently replacing turbine blades and entire turbines, while also serving as a versatile work platform for inspection, maintenance and repair operations.

"Securing the project was a result of our vast practical experience in executing lifting operations, operating lifting appliances, and conducting maintenance, along with a comprehensive understanding of rules and regulations," said Marte V gen, Director – Products at Axess Technologies. "We are enthusiastic about leveraging our expertise in material handling to actualize this innovative and sustainable system for WCS. This comprehensive study aligns seamlessly with our strategy to enhance revenue streams from renewables, further solidifying our position as a key supplier of lifting solutions to the offshore wind industry,."

Wind Catching Systems is an independent technology provider to the floating wind sector, aiming to create a product that maximizes power generation from a concentrated area. The Windcatcher is a highly scalable unit, based on mass-produced smaller turbines and at-sea replacement of individual turbines without the use of specialized ships or cranes. The result will be a concept with scaling potential, high acreage efficiency and drastically reduced operations and maintenance costs for floating wind.

MORE INFO www.axessgroup.com
www.windcatching.com

Conceptual design of the elevator platform by Wind Catching Systems. (Courtesy: Axess Technologies)

MAINTENANCE

KASK helmets, shades protect workers from heat stress, UV rays

KASK helmets are designed for workplace safety. By prioritizing the well-being of workers and protecting them from heat stress and harmful UV rays, companies can minimize risks and promote a healthy work environment. Ensuring workplace safety is of utmost importance, and the use of helmets and sun protection accessories is crucial in achieving this objective.

Heat stress can lead to fatigue, dehydration, and heat-related illnesses, which can impair

concentration and increase the likelihood of accidents. Moreover, pro-

KASK Neck Shade and Sun Shield provide effective protection against both heat stress and UVA/UVB (UPF 50+). (Courtesy: KASK)

longed exposure to UV rays can damage the skin, especially for individuals who regularly work outdoors for extended periods.

People are often unaware that UV rays can have the same intensity in May as they do in August, and that UV rays can still reach their skin even when the sky is partially cloudy.

KASK helmets are specifically designed to reduce heat stress thanks to internal ventilation channels that improve breathability and special inner padding that helps keep workers cool, dry, and comfortable. However, it is equally important to provide sun protection in hot and sunny conditions. Accessories such as the KASK Sun Shield and Neck Shade are essential in providing additional protection against the sun's harmful rays.

MORE INFO www.kask.com

MAINTENANCE

GEV Wind Power wins two safety awards

GEV Wind Power's track record in safety has been recognized with two industry awards. The wind-turbine blade repair and maintenance experts won the Innovation in Safety and the Safety Performance and Delivery accolades at Siemens Gamesa Renewable Energy's (SGRE) Annual Contractors Safety Conference for the Northern Europe and Middle East (NEME) region.

It is the second year in a row that

GEV's Group QHSE manager, George Guy (left), receives safety awards from Michael Larne, EQS manager major projects on/off Northern Europe and Middle East at Siemens Gamesa Renewable Energy. (Courtesy: GEV Wind Power)

GEV has won awards at SGRE's event which, this year, was held in The Hague.

GEV received the Innovation in Safety title for the development of new initiatives to improve safety rescue drills combined with skills training for Leading Edge Protection (LEP). LEP helps to combat leading edge erosion, which is the single largest maintenance-related issue in the wind industry.

GEV also received the Safety Performance & Delivery award for the record number of safety observations reported by GEV technicians during 2023.

"This is tremendous recognition for our team and underlines the pivotal role our technicians play in setting industry standards and championing awareness of hazard free working environments," said David Fletcher, GEV Group's chief executive officer. "It is also testament to GEV's proactive approach to health and safety reporting from everyone within the company."

The awards build on GEV's success at the SGRE event where the company was named in 2023 the Major Projects Division Overall Winner for Safety Performance Delivery. GEV won the accolade for a significant increase in safety reporting across all divisions, led by its QHSE team and in-field technicians.

"We take immense pride in having a team that genuinely values the importance of health and safety," said George Guy, Group QHSE manager at GEV. "Our proactive approach ensures potential on-site hazards are identified and assessed promptly, whilst also highlighting positive safety practices. This not only allows our expert in-field team to work efficiently, but also minimizes downtime, and helps us to uphold an incident-free working environment."

GEV has evolved as a global leader in blade maintenance and repair through organic growth and acquisitions that build on its blade competence capabilities and in-house expertise across complex repairs, upgrades, and maintenance combined with specialist blade advisory, risk, and technology solutions.

Most recently, the Group acquired Rigcom Group, Australia's largest domestic independent service provider (ISP), which specializes in field de-

ployed rotor blade maintenance and a range of height safety services.

GEV has more than 1,000 technicians worldwide and supports more than 200 projects across four continents including Europe, North America, and Asia with a network of operational bases in the U.K., U.S., Australia, Poland, and Denmark.

In GEV's 2023 financial year alone, 1,122 blades were maintained by GEV, enough to annually power 320,000 homes and save more than 1 million tons of CO2 emissions.

MORE INFO www.gevwindpower.com

MAINTENANCE

Snap-On introduces portable heavy-duty impact set

Snap-On Industrial's new Portable Heavy-Duty Impact Sets provide items technicians need to reliably transport their impact tools on the jobsite.

The 25-Piece Heavy-Duty Cordless Impact Set with Portable Storage (425IMCT) comes with an assortment of tools and is perfect for work in many industries. The set includes:

- 17-piece socket set with Snap-on Flank Drive® technology.
- 3/4" drive universal joint.
- 3-inch, 7-inch, and 10- and 3/4-inch drive extensions.
- 18V 3/4-inch drive MonsterLithium cordless impact wrench set.
- All-weather resistant case with collapsible handle and wheels.
- Red and black colored tool control foam to securely house the tools.

Snap-On's heavy-duty impact set provides everything technicians need to reliably transport their tools. (Courtesy: Snap-On Industrial)

MORE INFO www.snapon.com

The joint project combines three different safety technologies and was commissioned by Mammoet to help its customers to meet stricter safety regulations. (Courtesy: Mammoet)

MAINTENANCE

Mammoet to implement site hazard safety system

Mammoet is working with Rietveld, a specialist in fleet management and vehicle and machine safety systems, on a joint project to protect drivers and road users when mobile cranes are moving and maneuvering.

The project combines three different safety technologies and was commissioned by Mammoet to help its customers to meet stricter safety regulations. Testing is being carried out on one of its new Liebherr LTM 1070-4.2 70t mobile cranes.

The three-tier system includes Rietveld's OmniVue 360° camera system. Using a combination of cameras installed on the crane's chassis, it generates first and third-person images of the vehicle. This gives the driver a full 360-view from both inside and outside the cab, enabling them to see what pedestrians and other road users are seeing.

The second tier adds a series of sensors that detect people and obsta-

cles within an adjustable safety radius around the crane. When the sensors detect a potential hazard, an acoustic signal alerts the driver. An LED warning panel also displays the section of the crane where the motion was detected.

The final tier, the "Halo," draws a light boundary on the floor around the crane, giving those nearby a clear visual indication of the safe zone around it. This is especially important at sites where hearing protection is required. The boundary can be switched on and off manually and is set to automatically turn off when a certain speed is reached.

"By combining these three systems, Mammoet will improve safety, minimize accidents and damage, and give greater confidence to crane operators to create safer working environments," said Ferdi Kivanc, project coordinator EMD at Mammoet. "We see this as a comprehensive system that will not only enhance crane safety, but also operator training in the future. Initial tests are promising, and I am very proud of the results."

"When Mammoet approached us with what it wanted to achieve, we were delighted to offer our expertise," said Frank Kanters, Rietveld account manager. "By working with its engineers to test the integration of our collision-prevention technologies, we have created something unique in crane safety solutions. We look forward to developing the system further and progressing to eventual rollout."

MORE INFO www.mammoet.com

MANUFACTURING

Flender to acquire Eickhoff Wind Asia

German drive manufacturer Flender has reached an agreement with Eickhoff to acquire Eickhoff Wind Asia Pvt Ltd (EWA) with its assembly plant in Walajabad Taluk, India.

Established October 1, 2020, in India, Eickhoff Wind Asia Pvt Ltd (EWA) specializes in the production of wind gearboxes. The facility has a test bench capacity up to 8 MW. It is in the greater Chennai area, close to Flender's existing facility.

Eickhoff Wind Asia in Walajabad manufactures and assembles wind energy gearboxes, catering to the Asia Pacific region's needs. (Courtesy: Flender)

One of the pillars in Flender's global footprint strategy is to expand and localize wind-turbine drive systems in India. Next to the investments in its own production sites in Kharagpur and Chennai, the acquisition of Eickhoff Wind Asia allows Flender to further scale up and accelerate in pace. This is required to meet the growing needs of the renewable energy transition.

"Next to scaling up quickly, it is key for the wind industry that its supply chain is sustainable, resilient, and affordable," said Flender Group CEO Andreas Evertz. "A diversified global manufacturing and service footprint combined with a high degree of localization is key to achieve this. The acquisition is another strategic milestone to further expand our footprint based on the needs of our valued partners and the industry."

"Together, we continue to provide the wind market with cutting-edge technologies and services," said Aarnout Kant, president of wind at Flender. "Our partners will profit from increased capacity, availability and further reduced reaction times."

MORE INFO www.flender.com/en

MANUFACTURING

Vestas wins Baja California wind-farm order

Vestas has won Sempra Infrastructure's 319-MW order for the Cimarron wind farm in Tecate, in the state of Baja California, Mexico. This is the third phase of the Energia Sierra Juarez Wind Complex that will have a total installed capacity of 582 MW.

The order includes supply and installation of 46 V163-4.5 MW turbines and 18 V162-6.2 MW turbines. Upon completion, Vestas will also deliver a 10-year service agreement (AOM 5000) that will optimize energy production while providing long-term business case certainty for the wind farm operations.

"We are proud to have been awarded a project by Sempra Infrastructure in Mexico, strengthening our long-standing relationship with this important player in the renewable energy ecosystem," said Mehdi Hadbi, Senior Business Director for Vestas in LATAM North.

"We have been able to win trust from our customers in Latin America thanks to our reliable product offering and local team with strong execution and servicing capabilities. With the signing of this new contract, we consolidate our market position in Mexico and reinforce our commitment to the development of renewable energy in the country."

"Our team has always worked dedicatedly, intensively and tirelessly, always investing in the country despite any market challenges, due to the broad potential we identify in Mexico to take on a leading role in the energy transition journey," said Mario Barreiro Castellanos, country head for Vestas in Mexico.

Delivery is planned for the fourth quarter of 2024, while commissioning is expected for the fourth quarter of 2025.

MORE INFO www.vestas.com