



The Liebherr LRT 1130-2.1 boasts the longest telescopic boom of any two-axle RT. (Courtesy: ALL Crane)

► CONSTRUCTION

ALL Crane to debut new Liebherr rough terrain cranes

ALL Crane will take delivery of Liebherr's newest rough terrain cranes when the ALL family of companies takes delivery of the first five units. The Liebherr LRT 1130-2.1 boasts the strongest-in-class 140-USt capacity and the longest telescopic boom (197 feet) of any two-axle RT.

The LRT 1130-2.1 delivers the most economical transport dimensions of its performance class, being able to be transported on conventional low loaders without disassembly.

"ALL has a tradition of making history when it comes to high-capacity

RTs," said Brian Peretin, general manager, sales, of the mobile and crawler cranes division of Liebherr USA. "ALL purchased the very first units of our 90-ton and the 100-ton RT series when they were first released."

Popular in the North American market, rough terrain cranes are always in high demand for petrochemical maintenance and construction, as well as serving as assist cranes and tail cranes for wind-energy assembly and repair.

"Larger RTs have become a phenomenon in the past 10 to 15 years," Peretin said. "They offer many of the same features of all terrain cranes, but with a smaller footprint, pick-and-carry capabilities, and a smaller cash outlay."

Liebherr developed the LRT 1130-2.1 based on input from heavy RT users such as ALL, who have a feel for what

the market demands.

These first five units are expected to be in high demand for applications requiring a solid load chart, long boom, and the need to fit into tight spaces.

MORE INFO www.allcrane.com

► CONSTRUCTION

Copenhagen to begin construction of India onshore wind project

Copenhagen Infrastructure Partners has taken final investment decision on a 300-MW onshore wind project in India together with Viviid Renewables (Viviid), an Indian developer and balance-of-plant service provider. The



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Copenhagen intends to continue to grow its activities in the Indian market together with both existing and new potential partners. (Courtesy: Copenhagen Infrastructure Partners)

project is in the Indian state of Karnataka with favorable wind conditions, good site accessibility, and a nearby existing grid-connection location. Construction is expected to be completed by the end of 2025.

CIP and Vивиid will develop and construct the wind farm together. Alongside final investment decision, CIP signed equipment orders for the full project capacity. Vивиid will provide balance-of-plant works and services and holds a minority ownership position in the project.

This will be the first project to be constructed under the partnership between CIP and Vивиid, who, in January 2023, entered into a framework agreement to develop at least 1.8 GW of renewable energy projects in India.

“Achieving FID is a significant mile-

stone for CIP and for our partnership with Vивиid,” said Peter Sjøntoft, associate partner at CIP. “It is testament to our industrial approach and ability to deliver large scale renewable energy projects with highly competent partners.”

“We are elated to embark on this first 300-MW wind farm project with CIP and look forward to accelerating the development of renewable assets in India,” said Siddharth Mehra, Vивиid Renewables founder. “Vивиid will leverage its expertise in wind-farm development, including balance-of-plant equipment supplies and services. Through this long-term partnership, we aim to further strengthen our contribution to India’s ambitious target of installing 500 GW of generation capacity from renewable sources by 2030.”



Russelectric manufactures complete systems in-house. (Courtesy: Russelectric)

India is a core market for CI Growth Markets Fund strategy. Since entering the Indian market in 2021, CIP has formed partnerships with AmpIn Energy Transition and Viviid and has opened an office in Mumbai.

MORE INFO www.cip.com

INNOVATION

Russelectric offers cogeneration systems for heat, power

Russelectric, a Siemens business and manufacturer of automatic transfer switches and power control systems, offers UL-listed cogeneration systems

for combined heat and power (CHP) applications in which the generator sets are run to serve the connected load and heat is also recovered for other uses. Designed and built for mission critical facilities such as healthcare, research and development, and campus facilities, Russelectric cogeneration systems are designed to provide maximum protection for operators and maintenance personnel and to minimize the danger of operator error.

All Russelectric cogeneration systems offer programmable logic controller (PLC) system controls, are listed by UL, and are supervisory control and data acquisition (SCADA)-capable. They feature utility/generator and other power assets paralleling control and provide active synchronization and soft loading. Systems use a utility-ap-

proved interconnecting protective relay system.

Russelectric cogeneration power control switchgear may have additional controls and monitoring to optimize heat recovery. The systems can be designed to operate in parallel with the utility to optimize power and heat balance.

Russelectric manufactures complete systems in-house. All enclosures, bus, and other structural components are fabricated and fully assembled in Russelectric plants. Factory testing of complete systems is performed prior to shipment.

Components are selected to assure the reliable operation of critical systems. Switchboard type control switches are rated at a minimum of 25 amps. Protective relays for genera-

tor and utility power are utility-grade. UL-listed power circuit breakers with stored energy closing mechanisms provide 5-cycle (maximum) closing for paralleling.

MORE INFO www.siemens.com/us/en/products/energy/ruselectric/products.html

INNOVATION

Plibrico introduces refractory selection guide

The Plibrico Company, a supplier of monolithic refractories, recently introduced an online refractory selection tool designed to guide customers with focused refractory choices tailored to their specific industry and application.

The tool, available at Plibrico's website, is a resource for refractory install-

ers, as well as professionals in the steel, aluminum, off-gas, mineral processing, and power-generation sectors.

By providing industry and equipment details, the selection tool guide identifies Plibrico refractories that offer the optimal blend of structural, thermal, and mechanical properties, along with exceptional overall performance and workability.

Customers can then navigate to the Plibrico Technical Library by selecting one of the recommended refractories. Here, they gain access to technical data, installation guidelines, and safety documents. Selecting the optimal refractory material is a decision that directly affects the efficiency, safety, and overall success of a refractory project.

Using Plibrico's online tool guide, which has already considered essential factors such as temperature resistance, chemical compatibility, and mechanical strength, ensures the chosen refractory material aligns with the demands of the application.

In detail, essential factors considered:

► **Temperature Resistance:** Ensures refractories withstand extreme temperatures, maintaining structural integrity.

► **Chemical Compatibility:** Prevents corrosion and erosion by selecting materials compatible with process chemicals and gases.

► **Thermal Insulation:** Provides heat insulation, improving energy efficiency in industrial processes.

► **Mechanical Strength:** Enhances longevity and resistance to wear, addressing mechanical stresses in diverse applications.

► **Stability:** Ensures consistent performance by improving or maintaining heat transfer, reducing energy consumption, and enhancing production output under varying temperatures and conditions.

► **Application-Specific Tailoring:** Increases productivity and minimizes downtime by optimizing refractory

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The Whitla Wind facility has an installed capacity of 352.8 MW, which allows it to generate enough energy to power more than 100,000 homes per year. (Courtesy: Sarens)

material for industry-specific requirements.

MORE INFO www.plibrico.com/industries

MAINTENANCE

Sarens worked on largest Alberta wind facility

Sarens, a leader in heavy lifting, engineered transport, and crane rental services, recently worked on maintenance at the Whitla Wind facility, the largest in Alberta. In this case, Sarens' engineering team was in charge of the lifting of the blades, rotors, gearboxes and main shafts for four turbines (T-79, T-89, T-91 and T-7). The hub height of each tower is measured at 105 meters

and the average weight of the components came in at 31 tons. The Whitla Wind facility has an installed capacity of 352.8 MW, which allows it to generate enough energy to power more than 100,000 homes per year. Located in Forty Mile County, it consists of 98 Vestas V136 wind turbines of 3.6 MW each, with a hub height of 105 meters and a rotor diameter of 136 meters.

According to Capital Power, the company that owns and operates the project, Whitla Wind will prevent the emission of more than 1 million tons of CO₂ per year, equivalent to taking more than 200,000 vehicles off the road. Taking into account the variables to be considered such as component weight, tower height, and access for machinery assembly, the Sarens team of experts selected the Demag CC 2800 Crawler Crane configured with 108-meter Main Boom, 12-meter Luffing Jib, 120Te Main CWT,

20Te Carbody CWT, and 110Te Superlift CWT. This crane was selected because of the height of the towers, as this particular configuration would allow for a boom tip height of 120 meters while remaining under 75 percent of the crane's lifting capacity.

The Whitla turbines are connected to an electrical substation, from where the power is transmitted to the provincial grid via a 240 kV, 34 km high voltage line. The project has a remote-control supervision system, which allows the turbines to be monitored and operated from a centralized control center, ensuring safe and efficient operation.

Sarens has a long history of developing wind projects in Canada. These include the Golden South Wind Project in Assiniboia and the Blue Hill Project in Saskatchewan.

MORE INFO www.sarens.com

MAINTENANCE

Crowley vessels, crews win environmental awards

The Chamber of Shipping of America (CSA) recently recognized 85 Crowley vessels and their crews for a cumulative 782 years of safe environmental practices and operations.

The Environmental Achievement Awards, presented annually by the CSA, commend vessels and mariners that demonstrate an outstanding safety record with no reportable spills, no U.S. Coast Guard environmental citations, or other pollution incidents.

The Crowley-owned-and-managed vessels recognized by the CSA span diverse categories, including tugs, barges, containerships, tank vessels, and company-managed government ships operating globally.

“We are thrilled to be recognized once again for our safety and environmental stewardship,” said Peter Sutton, vice president of health, safety, security, and environment and operations integrity for Crowley Shipping. “This acknowledgment is a true testament to the hard work and dedication of our mariners and underscores Crowley’s commitment to sustainability and safety within its organization and the maritime industry.”

MORE INFO www.crowley.com

MANUFACTURING

Vestas plans blade factory in Poland

Vestas plans to establish a new blade factory in Szczecin, Poland. The factory is planned to produce blades for Vestas’ flagship offshore wind turbine, the V236-15.0 MW, and is expected to start operations in 2026, creating more than 1,000 direct jobs. Together with Vestas’ previously announced plans to estab-



The Chamber of Shipping of America awarded 85 Crowley vessels. (Courtesy: Crowley)



The first 3D rendering of the Vestas Poland facility. This preliminary image may differ from the final appearance of the facility. (Courtesy: Vestas Wind Systems A/S)

lish an assembly factory for offshore nacelles in Szczecin, Vestas’ manufacturing footprint could increase with more than 1,700 direct jobs by 2026.

“Vestas intends to lead the development of a sustainable supply chain in Europe that can deliver the scale needed to meet the expected growth

in demand for offshore wind,” said Tommy Rahbek Nielsen, Vestas COO. “Our plans for two new offshore factories in Poland underline that Europe can spur wind industry investments and green jobs with the right long-term policy commitments for offshore wind projects.”



Commissioning for the Steelhead project is set for 2025. (Courtesy: Vestas)



Turbine delivery for the Vestas project in the U.S. begins in 2025's second quarter. (Courtesy: Vestas)

"Poland is transforming its energy system and is a promising wind-energy market with good wind conditions both onshore and offshore," said Nils de Baar, president of Vestas Northern & Central Europe.

"Poland has a highly skilled labor force and growing wind industry that can become an offshore hub for the Bal-

tic Region and the rest of Europe. We have been a market leader in Poland for more than 20 years, and I am honored to announce our next investment plans in Szczecin." The new offshore blade factory is planned for at a site in northern Szczecin, which Vestas acquired in February 2023.

The site is close to the Ostrów

Brdowski Island in Szczecin where Vestas' planned nacelle assembly factory would be located. The assembly factory is expected to start operations in 2025 and create 700 direct jobs.

The new factories are planned to support European and to some extent global demand, playing a crucial role in supporting Poland and the European offshore wind market and industry.

With the two new factories in Szczecin together with Vestas' already existing footprint, Vestas is expected to soon employ more than 2,500 people in Poland.

Vestas' manufacturing footprint strategy is to place priority on markets where there's long-term certainty around market conditions and it has secured a sustainable order volume.

MORE INFO www.vestas.com

MANUFACTURING

Vestas gets order for Steelhead Americas project

Vestas recently received a 135-MW order to power an undisclosed wind project in the U.S. The order consists of 30 V163-4.5 MW turbines, Vestas' newest high-capacity factor turbine. The project has been developed by Steelhead Americas, Vestas' North American development arm.

The order includes supply, delivery, and commissioning of the turbines, as well as a 20-year Active Output Management 5000 (AOM 5000) service agreement, designed to ensure performance of the asset.

Turbine delivery begins in the third quarter of 2024 with commissioning set for 2025. Highlighting its focus on project development in key markets, Steelhead Americas led all development efforts including permitting, land acquisition, and construction design to deliver to the customer a project that is ready for construction and installation.

Steelhead leverages Vestas' industry

expertise and turbine technology to advance in existing markets and unlock new geographic markets to expand renewable energy across North America.

MORE INFO www.vestas.com

MANUFACTURING

Vestas secures 167-MW wind project order in U.S.

Vestas has received a 167-MW order to power an undisclosed wind project in the U.S. The order consists of 45 V150 turbines of the 4 MW platform. The order includes supply, delivery, and commissioning of the turbines, as well as a multi-year Active Output Management 5000 (AOM 5000) service agreement, designed to ensure performance of the asset.

Turbine delivery begins in the sec-

ond quarter of 2025 with commissioning scheduled for the fourth quarter of 2025.

MORE INFO www.vestas.com

MANUFACTURING

Vestas sells 656-MW wind portfolio to Italian producer

Vestas recently sold a 656-MW wind portfolio to Italian renewable energy producer PLT Energia, one of Vestas' most long-lasting customers.

"It is a source of pride for us to have concluded this deal with Vestas, a leading global operator with whom we have been collaborating for years, with great satisfaction, in the realization of wind-power plants," said Pierluigi Tortora, chairman of PLT Holding.

"With this strategic transaction, PLT



Vestas has sold a 656 MW wind portfolio to Italy's PLT Energia. (Courtesy: Vestas)

Energia continues its growth plans in Italy, Europe, and the United States with an under construction and advanced development pipeline of more than 3 GW," said CEO PLT Energia, Stefano Marulli.

Vestas Development holds about 30 GW of wind capacity in its pipeline and has already obtained more than 6.5 GW of firm projects from development activities. ↗

MORE INFO www.vestas.com

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