

ing equipment is engineered for safety; similarly, the Climax and H&S tooling range sets the standard for keeping operators both safe and productive making this partnership a perfect fit for HTL and our client base.”

Paul Burden, director of sales and marketing, H&S Tool Holdings, said, “We greatly appreciate our partnership with the HTL Team. HTL is a world-class organization focused on putting customers at the forefront of everything they do. Customers choose HTL because they have the most extensive range of products and services for operators in the controlled bolting and flange working industries, and they back it up with unrivalled service.

“The Climax team is proud to partner with HTL, ensuring HTL and Climax customers have access to the world’s best portable machining, welding, and valve testing products.”

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

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## ► CONSTRUCTION

### Vestas enters new market with order for Senegal project

Vestas is providing a customized solution for the 159 MW Parc Eolien Taiba N’Diaye, Senegal’s first large utility-scale wind energy project and the largest wind project in West Africa. The wind farm will expand the country’s generation capacity by 15 percent, support the development of affordable renewable energy, and diversify Senegal’s energy mix as well as provide positive social and economic impact for the nearby communities.

The engineering, procurement, and construction (EPC) contract was signed with Parc Eolien Taiba N’Diaye, a company majority-owned by Lekele, an experienced renewable energy company that has developed 1.3 GW of wind and solar projects across Africa, and partly-owned by French developer Sarreole, which has been part of the project from its beginning.

The order includes the supply, transport, installation, and commissioning of 46 V126-3.45 MW turbines, as well as an Active Output Management 5000 (AOM 5000) service agreement for the operation and maintenance of the wind park over the next 20 years.

Today, Senegal’s energy matrix mainly depends on costly imported fossil fuels. By banking on renewables, Senegal will be able to generate clean, reliable, and competitively-priced energy to fulfill the rapidly expanding local grid.

“This is a very special order for us, since together with Lekela we are delivering a project that will represent 20 percent of the country’s energy mix and have a positive impact on Senegalese communities, providing opportunities for local employment while responding to the country’s energy challenges. Working in close collaboration with all the partners has been a success factor for this great

achievement. Vestas has installed wind turbines in around 80 markets, including more than 1 GW in Africa, providing clean energy and fostering local jobs and training. With this project, we will contribute to Senegal in the same way through sharing our extensive knowledge and deep experience of supporting wind energy projects in emerging markets”, said Nicolas Wolff, Vestas’ VP Sales Region Western Mediterranean.

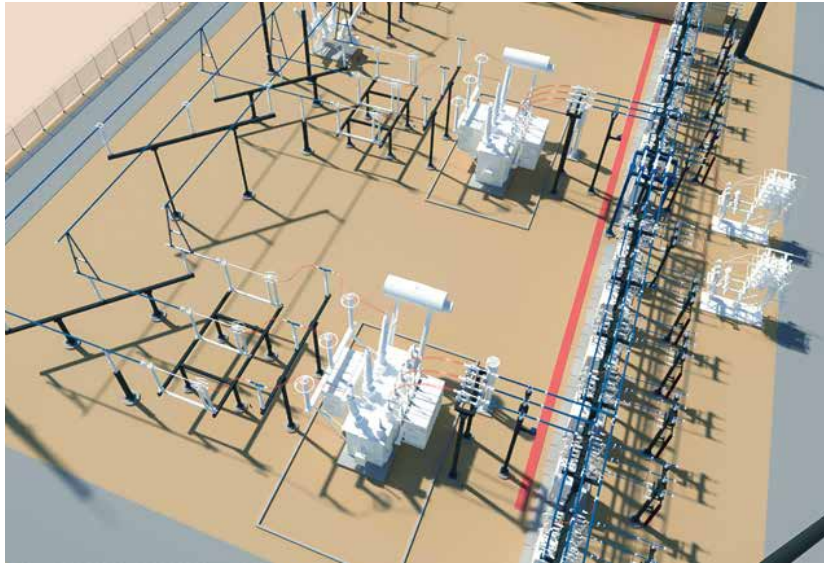
“This is a major milestone for Senegal, and for Lekela. As the first utility-scale wind power project in the country, Taiba N’Diaye forms a critical component of Senegal’s clean energy strategy. The project will create an impact that lasts for generations. We have many people to thank in reaching this point, not least the communities, stakeholders, and partners like Vestas who we’ve worked closely with in recent months,” said Chris Ford, chief operating officer at Lekela.

Vestas has a proven track record on working with customers and other stakeholders to improve project bankability to meet international standards, and ensuring the projects’ technical, commercial, and social aspects are addressed. Vestas and Lekela have partnered to build and maintain positive relationships with the communities impacted by the project through ongoing engagement, creating local job opportunities, and supporting the customer’s community investment initiatives during construction.

Vestas’ financing partner EKF Denmark’s Export Credit has backed the project with a 140-million-euro export loan, securing the project’s financial stability and maximizing the customer’s return on investment.

The project is in an advanced stage of development, ready for construction. Turbine delivery, as well as commissioning, are planned to be accomplished in three phases: deliveries between the second and the third quarters of 2019, and commissioning between the third quarter of 2019 and the first quarter of 2020.

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



The Rio Bravo Wind Project, located in Starr County, Texas, is Mortenson's 34th wind project in the Lone Star State. (Courtesy: Mortenson)

## CONSTRUCTION

### Mortenson breaks ground on Rio Bravo Wind Project in Texas

Mortenson announced the start of construction at the Rio Bravo Wind Project located in Starr County, Texas. Rio Bravo is Mortenson's 34th wind project in the Lone Star State. Longroad Energy selected Mortenson based on its portfolio of wind projects in Texas, exceptional performance on past projects, and the integration with Mortenson's Engineering Services for much of the project's design engineering.

"The addition of in-house design engineering on the project enables us to unlock the best value for the customer by further ensuring system performance and optimized costs throughout the design phase. This is an important and strategic component that we can offer to improve our customers' business results on energy projects," said James Phaneuf, director of engineering services for Mortenson's High Voltage Transmission Group.

As the Engineer of Record, Mortenson's Engineering Services team designed Rio Bravo's 345kV Cabezon sub-

station, which is the primary energy transmission "hub" for the project. The integration of engineering and construction services by Mortenson provides for significant design optimization and enhances construction coordination, which ensures a higher quality asset installation for the customer — saving the project time and money.

Mortenson has completed 33 projects in Texas totaling 4,658 MW. According to the U.S. Energy Information Administration, Texas leads the nation in wind-powered generation capacity, and, since 2014, Texas wind turbines have produced more electricity than the state's two nuclear power plants.

"As a proud partner of Longroad Energy, we are excited to add 237 MW of wind energy to Texas' clean energy portfolio and engage Mortenson's design resources in the process," said Tim Maag, vice president and general manager for Mortenson's Wind Energy Group.

Rio Bravo includes (66) V136 Vestas turbines with tower hub heights of 105 meters, totaling 237.6 MW of output. The scope of work includes access roads, foundations, collection system installation, MET towers, O&M building, substation, transmission line and erection of the turbines. Mortenson

will self-perform all civil, erection and high voltage work.

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

## CONSTRUCTION

### Seaway Heavy Lifting awarded contract with Triton Knoll

With reference to the initial stock announcement on July 19, 2018 by Subsea 7 S.A. Seaway Heavy Lifting, part of Subsea 7 Renewables & Heavy Lifting Business Unit, recently confirmed the award of the Triton Knoll contract.

The sizeable contract scope includes the transport and installation of 90 WTG foundations and two offshore substations and was awarded by Triton Knoll Offshore Windfarm Limited.

Triton Knoll is a consented offshore wind farm being developed by Innogy Renewables UK Ltd. The project is owned by Innogy SE (59 percent) and partners J-Power (25 percent) and Kansai Electric Power (16 percent). The Triton Knoll wind farm is in the Greater Wash area, approximately 33 kilometers off the coast of Lincolnshire and 46 kilometers from the North Norfolk coastline. Once fully operational, Triton Knoll Offshore Wind Farm will be capable of supplying the equivalent of 800,000 U.K. households with renewable electricity.

Offshore installation activities will be executed in 2020 using Seaway Heavy Lifting's crane vessel Stanislav Yudin. This vessel provides significant lift and installation capabilities ideally suited for the challenges of installing wind farm foundations.

Steph McNeill, SVP Subsea 7 Renewables & Heavy Lifting, said, "Seaway Heavy Lifting has a long track record of successful and safe balance of plant installation for renewable energy projects in the North Sea. We look forward to supporting Innogy in completing the development of the Triton Knoll Windfarm offshore."

MORE INFO [www.subsea7.com](http://www.subsea7.com)