

Press release

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Wind power line SuedLink to be equipped with Siemens Energy HVDC technology

- Important project progress for Germany's largest energy infrastructure project
- Siemens Energy's high-voltage direct current technology will enable low-loss transport of up to 2 gigawatts over more than 700 kilometers

Fluctuating feed-in from renewable energy plants, the new spatial distribution of power generation, and rising energy demand: The power grids of the future will face a wide range of challenges that require a rapid expansion of the infrastructure. A total of 7,500 kilometers will have to be optimized, strengthened, or newly built in the German transmission network over the next few years. High-voltage direct current (HVDC) transmission links are playing a key role here, such as SuedLink, the new wind power line, that will enable low-loss energy transport over long distances and the integration of wind power from the North and solar power from the South of Germany into the transmission grid. The contract for the necessary converter technology for the section between the grid interconnection points of Brunsbüttel in Schleswig-Holstein and Leingarten/Großgartach in Baden-Württemberg was signed today. Siemens Energy will supply the converters and carry out the detailed and site-specific planning of the facilities in the coming months together with the project owners, the transmission grid operators TenneT and TransnetBW, and further project members.

"The construction of SuedLink, the largest grid expansion project in Germany, is crucial to the success of the energy transition," says Tim Meyerjürgens, Managing Director of TenneT. "The award of these converter stations is an important milestone in our efforts to implement this system. It proves that we have managed to make important progress on SuedLink despite difficult conditions during the COVID pandemic," Meyerjürgens said.

"With the award of the contract, we have taken a decisive step closer to realizing SuedLink. Now the planning can be further worked out in concrete terms at two starting and end points, and the preparatory construction measures already underway at the southern end point in Leingarten,

Baden-Württemberg, can be driven forward," emphasized Dr. Werner Götz, Managing Director of TransnetBW.

"After Ultranet and SuedOstLink, SuedLink is the third high-voltage direct current corridor project in Germany to be implemented with HVDC systems from Siemens Energy. We are pleased that our technology ensures that renewable electricity can be transported to where it is needed. In this way, we are making an important contribution to the energy transition," said Beatrix Natter, Executive Vice President Transmission at Siemens Energy.

SuedLink is one of the largest energy infrastructure projects in Europe. At the end points of the approx. 700-kilometer power link, converter stations are required that can convert direct current into alternating current and alternating current into direct current. The SuedLink converters will be designed as self-commutated voltage-sourced converters in a modular multilevel converter (MMC) arrangement with a rated DC voltage of ± 525 kilovolts. In addition to active power, the systems can also independently control reactive power. This allows them to respond flexibly to fluctuations in generation and consumption in the grid and enables the low-loss transport of up to two gigawatts of power in both directions. This output, which is equivalent to that of two nuclear power plants, can supply around five million households with electricity.

Siemens Energy is currently implementing ten HVDC projects worldwide and can already look back on more than 59 successfully completed projects.

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This press release and a press picture is available at

www.siemens-energy.com/press

For further information on Siemens Energy Transmission, please see

<https://www.siemens-energy.com/global/en/offerings/power-transmission.html>

For further information on HVDC technology, please see

<https://www.siemens-energy.com/global/en/offerings/power-transmission/portfolio/high-voltage-direct-current-transmission-solutions.html>

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