

Wind power

5 May 2021

TÜV SÜD wins contract for the wind and energy yield assessment of a 400 MW offshore wind farm project in Korea

Seoul. TÜV SÜD has announced that it has won the contract for wind condition analysis and AEP (annual energy production) assessment services for the next phase of an offshore wind farm project off the south-west coast of South Korea, which started commercial operation in 2019.

Supervised by Korea Offshore Wind Power Corp., the offshore wind farm project has a capacity of 2.5 GW and is thus in the large-scale category of offshore wind farm projects. The second stage of the project provides for capacity of 400 MW, the highest in South Korea after the country's 60 MW demonstration wind farm. Upon realisation of the project, South Korea will follow the UK, Netherlands, Germany, Denmark, and China as the sixth country to have an offshore wind farm greater than 400 MW.



An independent wind condition analysis reviews environmental conditions such as wind speed, wind direction, turbulence intensity and extreme wind speed during the design lifetime of the wind farm. For this purpose, data is collected around the wind farm site over a period of at least one year. The results of this analysis are

used to evaluate whether the designs of the wind turbines, sub-structures and other structures to be installed at the wind farm are suitable for the specific conditions at the site. For the AEP assessment, TÜV SÜD will use the analysed wind condition data to evaluate the layout of the wind farm and its estimated annual energy production during operation.

TÜV SÜD Korea Green Energy team leader Tony Kim said, "This project is of great significance for preparing the ground for a safe and reliable wind farm that can be efficiently built and operated in the future. And since TÜV SÜD has extensive experience in the type certification of wind turbines and wind-farm project certification, it will certainly contribute all of its know-how to this project."

TÜV SÜD is also an 'offshore and onshore wind turbine and component certification authority' accredited by Deutsche Akkreditierungsstelle (DAkKS) and the Federal Maritime and Hydrographic Agency of Germany (BSH) for offshore wind farm certification. It has vast experience and expertise in the different types of tests, expert reports, and certifications needed for the international offshore wind farm project. In 2020, TÜV SÜD won a contract for the project certification of the Jeonnam offshore wind farm, the first 96 MW-scale commercial wind farm in South Korea.

For more information on TÜV SÜD's services, visit <https://www.tuvsud.com/wind-power>.

Note for editorial teams: The press release and the high-resolution picture can be downloaded from <https://www.tuvsud.com/newsroom>.

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