

Three new Danish OFFSHORE WIND FARMS by 2030



Robertson Geo's 2,000m marine winch secured to the drilling deck with the PS Logger laid out to its left and ready to be deployed.

BY CONSENSUS OF political parties in the Danish Parliament and as part of the Energy Agreement of June 29, 2018 three new offshore wind farms are to be established before 2030.

Fred Olsen Windcarrier's jack-up vessel Jill is nearing completion of the preliminary geotechnical surveys at the Thor offshore wind project. The wind farm is planned to have a capacity of minimum 800 MW and maximum 1,000 MW and planned to be in full operation no later than 2027. The offshore wind farm will be established in the North Sea, west of Nissum Fjord, some 20 km from shore

and will be named "Thor" after the name of the town "Thorsminde".

As part of the preliminary geotechnical surveys, Robertson Geo conducted PS Logger operations on four 70m boreholes over a two-week period. The geology encountered was mainly moderate to stiff clay with some dense sands, predominately producing excellent data from the PS Logger with both the compression and shear waves being well defined.

The PS Logger probe measures P (compression) and S (shear) wave velocities in a single borehole without the need for external energy sources, making it simple and quick to deploy. When combined with bulk density

values (from a density log or in this case from core sample tests) small strain moduli (Young's, Shear and Bulk) can be calculated using simple formulae. The data is logged and processed onboard by the Robertson Geo service engineer and further assessed at the HQ by a senior engineer.

