

Plenary Keynote: Poul Skjærbaek

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Unlocking the Green Hydrogen revolution at the sea

The IEA predicts that the world will need to install 850 GW of Electrolyser capacity by 2030 and 3600 GW by 2050 to stay below 1.5 degree warming. This amount of electrolyzers will require even more GW of renewable energy and the achievement of green hydrogen production at scale is thus dependent on a large share of offshore wind energy. In this keynote, Poul Skjaerbaek will present Siemens Gamesas innovation work to bring hydrogen conversion to turbine level. This means producing hydrogen at each individual turbine to lower electrical losses and to modularize a wind-to-hydrogen system that can bring green hydrogen to cost-parity by 2035.