Thomassen Energy
a Hanwha company

Press Release
May 9, 2022

Thomassen Energy provides a Hydrogen fuel-flexible retrofit solution to support decarbonization of Uniper gas turbine power plant

RHEDEN, Netherlands (May 9, 2022) – Thomassen Energy will retrofit one of Uniper's Rotterdam Capelle (RoCa) power plant's gas turbines with their HyFlex LEC-III™ combustion system, capable of being operated with a variable blend of hydrogen (H2) and natural gas fuel. The RoCa power plant, located in the Zuid-Holland Province of The Netherlands, has a net electrical output of 264MW. It has two Frame 5 gas turbines commissioned in 1983 (RoCa 1 & 2) and one Frame 9E (RoCa3), manufactured by Thomassen, commissioned in 1996.

In 2023, Uniper is planning to switch the RoCa plant's fuel source from Groningen natural gas to a high caloric gas supply. To support their desired gas-fired power decarbonization objectives, Uniper anticipates blending the new gas supply with upwards of 30% H2. When installed into the RoCa3 Frame 9E turbine in early 2023, Thomassen's HyFlex LEC-III™ combustion retrofit system, developed jointly with their sister company PSM, based in the US, will be capable of handling this enhanced fuel flexibility requirement with ultra-low emissions when coupled with the delivery of their combustion AutoTune digital solution.

Rotterdam Capelle (RoCa) Power Plant. Courtesy of Uniper SE

Peter Stuttaford, CEO of Thomassen Energy: "Our H2 fuel-flex retrofit solution selected by Uniper for RoCa3 has been operating successfully on three (3) Frame 9E turbines in the Netherlands at another

customer location since 2018 with hydrogen (up to 35% H2 demonstrated) fuel blending. These projects confirm our vision in supporting the power industry's urgent net-zero carbon reduction requirements. Having retrofit options for the installed fleet of gas turbines today, which will ultimately allow operational flexibility with 0 – 100% H2, will provide clean, carbon free, firming capacity to balance the inherent intermittency of grid-scale renewable generation.

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About Thomassen Energy & PSM

Thomassen Energy and PSM are the leading high-technology aftermarket service providers for multi-OEM platform gas turbine plants worldwide. Our mission is to support power asset customers with their operational and maintenance power needs by providing flexible and reliable gas turbine products and services to improve the total maintenance life cycle costs and to eliminate their carbon footprint with advanced high hydrogen fuel flex combustion retrofit solutions.

For more information, visit: https://thomassen.energy or https://www.psm.com

This press release may contain forward-looking statements based on current assumptions and forecasts made by Thomassen Energy B.V. Management and other information currently available to Thomassen. Various known and unknown risks, uncertainties and other factors could lead to material differences between the actual future results, financial situation, development or performance of the company and the estimates given here. Thomassen Energy B.V. does not intend, and does not assume any liability whatsoever, to update these forward-looking statements or to modify them to conform with future events or developments.

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