

Hydrogen – A key enabler for the energy transition

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Hydrogen is a clean and carbon-free fuel and is considered a key element for the energy transition. Renewable power generation by solar and wind is increasing, requiring flexible operation to balance the load on the energy grid with the ability to rapidly adjust the output. Gas turbines with a combustion system for hydrogen operation offers a low carbon solution to support the stability of the energy grid. This provides a solution capturing the needs for energy storage, in the form of hydrogen, and flexible power generation. Gas turbines are known to operate on a vast amount of different fuels and generally well-suited in fulfilling the wish for small-scale decentralized power generation. In gas turbine driven combined heat and power (CHP) applications a fuel utilization of above 90% can be achieved. These advantages fit well in the sustainability targets to reduce emissions and increase fuel efficiency. This paper will present an overview of the application of hydrogen for energy production in a gas turbine. This includes the various methods of hydrogen production, challenges of hydrogen and the application in various gas turbine combustor technologies. The paper will conclude with showcasing the current and future hydrogen capabilities of the OP16 gas turbine.

Power To Gas The Case For Hydrogen White Paper

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