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**On the Cover** Himeji No. 2 uses 501J gas turbine-based combined cycle blocks to deliver 2919 MW at more than 60% electrical efficiency.

**3 Project development and industry news**

Ansaldo wins CCGT contracts, Turkey opts for Siemens technology, first GE 9HA manufactured, New Mexico eyes CCGT-solar PV project, Mitsubishi, Tepco to provide power and desalination, Whitegate first to implement GE data analytics software.

**12 Preparing for rapid innovation**

Siemens' new Clean Energy Centre near Berlin will play a key role in the development of new and the improvement of existing gas turbines, helping to meet customer requirements and ensuring Siemens remains competitive.

**16 Himeji No. 2 goes commercial**

The Himeji No. 2 station in Japan is fully operational, using high efficiency MHPS 501J gas turbines to reduce CO<sub>2</sub> by 30% and NO<sub>x</sub> by 85% while delivering savings of around \$520 million per year.

**22 Erbil repowers with vertical HRSGs**

Conversion from simple- to combined cycle of the Erbil facility in Kurdistan demonstrates how vertical heat recovery steam generators can have logistical and design advantages when building in remote and challenging regions.

**26 Low-calorific value fuel operation**

A new combustor developed for OPRA Turbines' OP16 gas turbine will give cogeneration and industrial users the ability to burn very low calorific value fuels such as pyrolysis oil and syngas.

**30 NovaLT16 expands GE's industrial range**

The Nova LT16 turbine is designed to provide 37% mechanical efficiency for pipeline compression, power generation and oil and gas plant compression, and is capable of 35 000-hour mean-time between maintenance.



**Rapid innovations**

New test centre is gearing up for faster component testing and validation, *page 12*



**World-class efficiency**

501Js deliver highly efficient and much needed clean power to Kansai region, *page 16*



**Expanding Erbil**

Converting Erbil to combined cycle makes it the largest in Kurdistan, *page 22*

