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On the Cover An additive manufactured burner front and a conventional burner front (background).

2 Project development and industry news

Supercritical CO₂ advances, DOE to fund hydrogen and syngas testing on microturbines, Companies set up to run IGCC plants in Fukushima, Doosan to build 1519MW Fadhili power plant.

10 Field News

Marking the one-year anniversary of its purchase of Alstom's power generation business, GE outlines its activities in the area of gas turbines during a site visit.

12 If you can dream it, you can print it

GTW visits Siemens' industrial additive manufacturing (AM) facility in Sweden to see first-hand what the technology means for the industry and the company.

16 Methanol fuel in commercial operation

Methanol has been considered an alternative fuel in gas turbines and reciprocating engines due to its clean burning characteristics. GTW reports on an existing methanol conversion project for a land-based gas turbine and a marine conversion of reciprocating engines.

22 Developments in HRSG technology

The growth in demand for high-efficiency combined cycle power plants has led to a growth in demand for HRSGs. So how are HRSGs developing?

29 All at sea

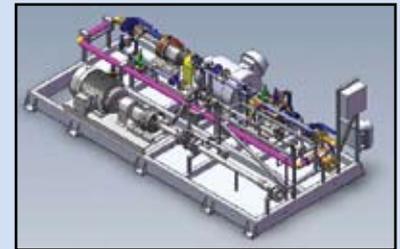
The 'Combined Gas Turbine Electric and Steam' (COGES) system is becoming increasingly popular as drivers for maritime vessels, replacing medium-speed diesels as the power unit of choice.

33 Market trends favor 4-pole generators

Demands for larger gas turbine generator sets are focusing attention on 4-pole generators. The generators can be used with the new 'Cooling from Air-to-Water-to-Air' integrated water cooler for a very compact solution.

**Game changing manufacturing**

GTW sees what additive manufacturing has to offer, page 12

**The methanol alternative**

Converting to methanol can be a clean option to gas in both land and sea applications, page 16

**HRSG developments**

There's a growing demand for heat recovery steam generators but how's the technology developing? page 22

**Seafaring power units**

COGES looks to rule the waves, page 29

