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On the Cover. Copper mine site for two 1x1 Siemens ST6-5000F combined cycle plants rated 250MW each and 56.9% efficiency

3 Project development and industry news

Alstom KA24-2 combined cycle units, Tepco 500MW IGCC projects, Mexico CFE tenders for \$2.8 billion, \$500M 410MW combined cycle, China H25 cogen upgrade, Russia HA.01 plant

8 Mexico CC plant lowering COE by 40%

Second 250MW combined cycle plant was commissioned recently in a mining company's long range program dedicated to generating 90-95% of its electricity requirements

14 Cheng proposal for H and J class turbines

Equipment cost of retrofitting large gas turbines for Cheng operation is estimated at 220 to 250 \$/kW vs. reported 350 \$/kW cost for combined cycle conversion of an M701

24 World's most powerful gas engine intro

New spark-ignited gas recip rated at 18.9MW and 50% simple cycle efficiency has a routine 480-sec startup with a 75-sec fast start option for intermittent energy backup

28 Potential 65% combined cycle efficiency

Steam cooled H-system and GT 24/26 reheat combustion technologies could open the way to 65% efficiency without exceeding dry low NOx combustion limitations



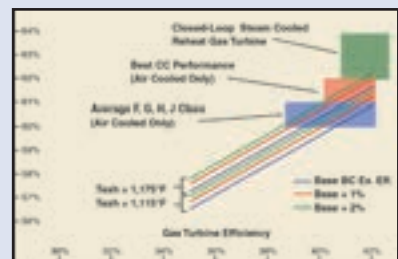
Piggy bank

Newly completed combined cycle power station is expected to reduce mining company's operating cost of electricity to 6 cents per kWh from current 10 cents *page 8*



GT makeover

Gas turbines can produce up to 70% more power and burn 40% less fuel for less than half the cost of converting to combined cycle operation, *page 14*



Game changer

Steam cooling and reheat combustion could produce a "super turbine" capable of 64% to 65% combined cycle efficiency without excessive NOx, *page 28*

