International
GT inlet cooling systems market to reach $13.1 billion
The global turbine inlet cooling systems market, valued at $7.8 billion in 2013, is predicted to reach $13.1 billion by 2022, according to a report by Transparency Market Research.

The report, titled ‘Turbine Inlet Cooling Systems Market by Technology (Inlet Foggging Systems, Mechanical Chllers, and Wet Compression Systems) - Global Industry Analysis, Size, Share, Growth, Trends and Forecast 2014 – 2022’, says the global turbine inlet cooling systems market is expected to expand at a 6.6% CAGR during the period from 2014 to 2022.

It says the decline in gas turbine output during summers has seen power companies equip their turbines with inlet cooling technologies.

The global turbine inlet cooling systems market is segmented on the basis of technology and region. Based on technology, the global turbine inlet cooling systems market is classified into mechanical chillers, wet compression, and inlet fogging. In terms of the technology used and its efficiency, the mechanical chillers sector dominated the global turbine inlet cooling systems market in 2014, says the report.

It said inlet fogging is emerging as one of the most commonly used cooling systems, while wet compression is expected to develop moderately during the forecast period.

By geography, the global turbine inlet cooling systems market is divided into North America, Asia Pacific, Europe, and Rest of the World. North America leads the global turbine inlet cooling systems market followed by the Rest of the World regional segment. The report notes that North America has the majority of the turbine inlet cooling systems providers.

USA
GE’s new VGF Waukesha gas engines offer greater flexibility
GE’s Distributed Power business has introduced its new Waukesha VGF high-speed gas engine models to the market. The new machines, for the first time, combine the company’s compact gas engine design with advanced controls normally used in its larger GE units.

According to GE, the VGF engines offer advanced controls and after-treatment capabilities as standard features, to give operators greater flexibility for on-site power, air/gas compression and drilling applications for oil and gas production compared to other engines available in the 300-600 horsepower high-speed range.

In addition to the advanced controls, the new VGF F18SE and H24SE models offer improved oil filtration for a healthier engine as well as improved oil cooling capabilities, allowing the unit to operate in even hotter ambient conditions. Additional enhancements include extending the life cycle of the cylinder heads, a new closed crankcase breathing system and a new high-altitude turbocharger coupled with a water-cooled wastegate. These engine improvements also will be offered to operators of existing VGF units in the field.

The new VGF models’ top-end maintenance intervals have been extended 36% – a significant upgrade over the existing GSI engine and a 50% longer interval than competing engines, according to GE. The major overhaul interval is also claimed to be twice as long as offered by other engines. The units can operate for 1500 hours without an oil, filter and spark plug change.

The new VGF F18SE and H24SE engines with advanced controls already have been deployed for a half dozen successful US demonstration projects to prove their advantages over existing engines, including projects in stationary gas compression and power generation as well as mobile power generation and air/gas compression.

The new engines will be commercially available in the first quarter of 2016.

USA
Siemens selected for 1124 MW Panda Hummel station
Siemens will be supplying the power island for Panda Power Funds’ 1124 MW Hummel Station combined cycle power plant in Pennsylvania.

The new Marcellus gas-fueled, combined-cycle power project near Shamokin Dam in Snyder County, Pennsylvania, will occupy 18-acres at the site of the recently retired Sunbury coal-fired power plant.

Siemens will deliver the power island consisting of three SGT6-5000F gas turbines, one SST6-5000 steam turbine, three SGen6-1000A air-cooled generators as part of the gas turbine package, one hydrogen-cooled SGen6-2000H generator as part of the steam turbine package, three NEM DrumPlus HRSGs and the SPPA-T3000 control system for Panda Power Funds.

Hummel Station is the seventh power generation project in the US, and the third project in Pennsylvania, awarded by Panda Power Funds to Siemens. Siemens Financial Services (SFS) is further supporting the project with a $125 million equity investment.

Once completed, these seven projects will have a combined generating capacity of 5.8 GW.

Martin Tartibi, Senior Executive Vice President of Energy Solutions Americas at Siemens Power and Gas Division noted: “We are proud to continue our successful track record with Panda Power Funds with this modern, highly-efficient power plant.”

India
Coal India forms JV for coal gasification project
Indian government-owned firm Coal India Limited (CIL) has signed a joint venture (JV) agreement with three companies to set up a new coal gasification project in Talcher, Odisha state. The project will entail a coal gasification-based fertilizer complex, along with a power plant and associated facilities.

CIL, together with GAIL (India) Limited, Rashtriya Chemical Fertilizers Limited (RCF) and Fertilizer Corporation of India Limited (FCL), have formed a JV known as Rashtriya Coal Gas Fertilizers’ to establish and operate the project.

Construction work of the $1.2 billion project is expected to start at the end of this fiscal period or earlier, with the plant expected to be operational by 2019.

GAIL will be primarily responsible for setting up the upstream coal gasification and gas purification section for the production of ammonia syngas for the downstream fertilizer unit. RCF and Coal India will put up the other downstream ammonia, urea, nitric acid and ammonium nitrate plants.

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