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On the cover Rendering of the 630 MW Edwardsport IGCC plant that Duke Energy is building on the site of an existing coal plant in Knox County, Indiana, page 29

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India 3600MW power project, new Mitsubishi 60Hz J-class combined cycle rated at over 60% efficiency, Gazprom pipeline compressors, Iraq 7000MW Fr 9E station, Zorya and MAPNA turbocompressor deal

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Proposed retrofit of 500MW-class steam plants to provide 800MW net output with near 100% CO₂ capture and compression to 1500 psig pipeline pressure

26 Status of active IGCC plant projects

Update of active projects still on track for development, with basic design details, feedstock, planned construction and startup dates, permit and funding status

36 Cost breakdown of 640MW IGCC plant

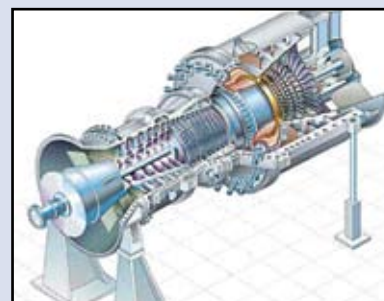
Detailed cost estimates for 2x1 F-class IGCC plant operating without CO₂ capture and same plant designed for 90% capture and compression to 2200 psig

44 Price index for keeping track of costs

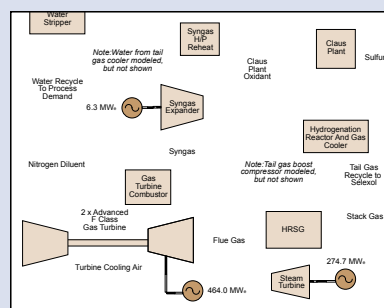
CERA capital cost index tracks changes in new construction costs on a quarterly basis for non-nuclear plants, shows an increase of about 12% over past two years

47 Gasification news and developments

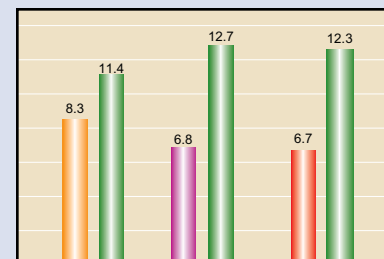
Mississippi 582MW IGCC plant, 1000MW biomass design study for low CO₂, utility rate hike approval for Edwardsport, application for Kentucky coal to syngas facility, W. Virginia coal to gasoline project



Fired expander SGT5-4000F gas turbine with compressor section and last turbine stage removed for operation as an oxyfuel fired expander to produce power and a pressurized stream of pure CO₂ in its exhaust, page 16



Estimated costs Breakdown of capital cost for 640MW plant without capture adds up to \$1813/kW installed versus \$2390/kW for that same plant rated at 556MW when designed for 90% CO₂ capture, page 40



COE with capture Plant COE adjusted to Q1 2009 dollars to account for escalation of coal-based IGCC, coal fired steam and benchmark natural gas combined cycles with and without CO₂ capture, page 44