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On the Cover. Flex-Plant 10 CC plants in El Segundo operating with “clean ramp” technology to limit NO_x, CO and NH₃ slip

4 Project development and industry news

740MW Iraq plant, NTE Energy \$500 million M501JAC project, Egypt 750MW conversion capacity, 500MW copper mine plant, Saudi 2,070MW IPP combined cycle

10 HA design rated at 61.4% net efficiency

600MW combined cycle powered by a 9HA gas turbine will deliver full load in 30 minutes of start command, ramp at nearly 60MW/min and turn down to 40% load

14 Clean ramp emissions well below 2 ppm

Patent pending technology in commercial operation has limited NO_x, CO and ammonia slip to base load levels while ramping up and down at 30-35MW per minute

20 IPP chooses upgrade versus new units

Fleet of fourteen old 1x1 GT24 combined cycles is being upgraded for an extra 5-10MW per unit and ability to choose between more power or longer TBO intervals

28 IPP plant choice driven by cost of LNG

Korean IPP is banking on new high efficiency combined cycle plant addition to help offset the \$18 to \$19 cost of imported LNG fuel for base load power generation

35 IGCC and gasification engineering news

Kemper IGCC cost still rising, China backing coal gasification to cut pollution, Polk testbed for warm syngas cleanup process, Saudi syngas fuel combined cycle



9HA gas turbine debut

World’s first “FlexEfficiency 50” combined cycle plant under construction by EdF France will be powered by a 9HA gas turbine, *page 10*



Clean ramp demo

El Segundo host site for demo test and evaluation of new technology that limits emissions to less than 2 ppm while ramping, *page 14*



Over 60% efficiency

LNG-fired 415MW combined cycle plant in South Korea is expected to save its owner-operator over US\$43 million in fuel costs, *page 28*

