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Technical review of global F-Class IGCC projects

B. Jason Crew
GE Power & Water, Gasification

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Abstract

The technique of integrating gasification systems with gas turbine combined cycle power systems into Integrated Gasification Combined Cycle power facilities has progressed significantly over the past two decades. Both fundamental research within the global chemical and power industries, as well as large scale projects have demonstrated the capability for design and construction of highly integrated systems with solid reliability and high efficiency. This paper will provide an overview of three large-scale projects currently ongoing, highlight the progression of technology, and discuss the potential for future improvement.