Power Generation in Today’s Complex World

Alternative Fuel Solutions

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Refreshments

Today’s power generation industry faces many challenges across the globe. One of these is providing reliable, affordable, and accessible electricity to the world’s growing population. There are many options for generating electricity, including renewable sources (e.g. wind, solar, hydro), fossil fuel technologies (e.g. natural gas, coal), and nuclear power. Because of their individual attributes, no one single electricity generating source can power the world – a mix is critical. There are multiple factors that add complexity to the process of deciding the optimal power generation technology for any given project, including local geographic and weather conditions, grid stability, back-up fuel requirements, environmental regulations, as well as capital and operating costs. When choosing a gas turbine solution, the choice of fuel is a major factor in the economics of the power plant. As affordable fuels can vary by region, there are many situations in which alternative fuel solutions are needed. This presentation will examine options and scenarios for generating electricity with real world constraints.