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COVER FOCUS: NUCLEAR TOP PLANTS

Barakah Nuclear Energy Plant, Abu Dhabi, United Arab Emirates (UAE)

The Barakah station will be one of the largest nuclear power plants in the world—with a total capacity of 5.6 GW—when all four of its Korean-designed APR-1400 nuclear units are online. Unit 1 commenced commercial operation in April 2021 and Unit 2 was connected to the UAE's transmission grid in August making the Barakah facility the first multi-unit operating nuclear power plant in the Arab World.

Haiyang Nuclear Power Plant, Shandong, China

While already remarkable for its relatively smooth construction of two Westinghouse AP-1000 units, Shandong Nuclear Power Co.'s Haiyang nuclear power plant in China's Shandong province began officially providing regional district heat in November 2020. The plant's achievements could serve as a model for future large-scale nuclear builds, which must leverage all revenue options to compete in an environment that is being increasingly saturated by smaller and cheaper renewable installations.

Fuqing Nuclear Power Plant, Fujian, China

China has its sights set on being the world leader when it comes to nuclear power technology. The country has brought its first Hualong One reactor—a third-generation pressurized water reactor—online at the Fuqing plant in Fujian province, with its developers calling it a “strategic tool for the government to promote nuclear power technologies abroad.”

FEATURES

Standardized Documents and Solid Partners Make Financing Less Stressful for Project Developers

Many small- and medium-sized solar projects are simply not big enough to gain the interest of highly sought-after institutional investors. There are, however, steps that smaller developers can take to get the financing and resources they need.

Development of a Digital Twin for the Ontario Power Generation (OPG) Atikokan Station

The Atikokan digital twin was developed at the University of Utah Carbon Capture Multidisciplinary Simulation Center. It started with a suite of validated, multi-physics simulations. This suite of Arches/Uintah simulations was then abstracted into surrogate models for all quantities of interest. The digital twin uses science-based Bayesian machine learning methods to combine these surrogate models with online power plant measurements to produce real-time operational setpoints for continuous optimization of the Atikokan boiler.

The Power Grid Is Valuable and Its Health Must Be Ensured Through Better Asset Management

Producing power is no longer the primary focus of value creation for most electric utilities. Instead, many companies now find themselves in the business of delivering power across an increasingly complex, dynamic electrical grid. As a result, some utilities have turned their focus to being customer-centric service providers.

Combating Varnish in Turbines: A Two Step Solution

Turbines are among the most critical pieces of equipment in power plants. A key factor impacting efficient operations is varnish buildup due to oil degradation. Varnish can reduce operational efficiency or even grind machinery to a halt, often costing tens of thousands of dollars—with some operations facing maintenance, replacement, and downtime costs ranging in the millions. However, operators can act to keep varnish buildup from becoming a problem.

Energy Policy Trends in Focus

Nations around the world are using innovative energy policies to speed the transition from fossil fuels to cleaner energy resources in their power systems. This article will explore which policies are working and which aren't.

Net-Zero Needs Nuclear Doesn't It?

With the United Nations Climate Change Conference (COP26) kicking off on November 1, governments and industry face more pressure than ever to reduce carbon emissions. Nuclear power is a proven and effective low-carbon energy source that is available, scalable, flexible, affordable, and deployable. The UK Nuclear Institute's Young Generation Network presents a compelling case for keeping nuclear power in the world's energy mix.

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