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Editorial Previews

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Distributed Generation Special Advertising Section

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COVER FOCUS: GAS TOP PLANTS

Hickory Run Energy Center, New Castle, Pennsylvania

The Hickory Run Energy Center, a 1,000-MW gas-fired combined cycle power generation facility, features highly efficient Siemens turbines, a Veolia biological water treatment system, and the latest emissions reduction equipment. The plant also is the product of a determined group of workers, including a Kiewit project team, that overcame unprecedented challenges to bring the plant to life.

Termoflores, Barranquilla, Colombia

The 450-MW Termoflores combined cycle power plant has Siemens W501D5 and W501FC+ combustion turbines, and a Siemens SST-700/900 steam turbine. Plant management embarked on an extensive effort to upgrade inefficient systems and enhance operations, which resulted in a 29% reduction in auxiliary power consumption, while also decreasing noise levels at the facility, among other improvements.

Stanton Energy Reliability Center, Stanton, California

The Stanton Energy Reliability Center is the first greenfield application to integrate two GE LM6000 gas turbines with a 10-MW/4.3-MWh battery storage system, providing a total output of 98 MW to the grid. The state-of-the-art technology provides for larger operating ranges and instantaneous ramping, making it the perfect fit to provide gas-free reserves, net-load following, and peak energy when it is needed most.

West Riverside Energy Center, Beloit, Wisconsin

The \$670 million West Riverside Energy Center is a 730-MW 2-on-1 combined cycle power plant featuring GE gas turbines. Its unique plume abatement technology improves local views, and reduces fog and ice impacts, while water treatment solutions maximize wastewater reuse and reduce nutrients discharged. The Envision Platinum-verified project also restored natural ecosystems, improved air quality, and integrated cleverly with Alliant's 4-MW solar facility.

FEATURES

Overcoming Obstacles to a Successful Hydrogen Power Project

Hydrogen will play a key role in the decarbonization of the power generation industry, but can it help meet carbon emission reduction goals despite the attendant environmental issues? This article will focus on environmental impacts, including air emissions, and the required permitting when moving to hydrogen to generate electricity. Though hydrogen-specific technology and regulations are still in development, there are clear hurdles that hydrogen projects will face in gaining public and regulatory approval, which will impact project design, budget, schedule, operation, and thus, financing.

Supporting Grid Integration for Distributed Energy Resources

Utilities and energy consumers increasingly are relying on distributed energy resources (DERs) to provide electricity, though the rapid growth in deployment of DERs has meant legal and regulatory agencies are trying to catch up. The fast pace of technology advancements means companies in the DER space also are trying to keep up, recognizing asset management and control systems must quickly adapt to the changing energy landscape.

Dynamic Export Cables Critical for Success of Offshore Wind

The offshore wind industry has experienced dramatic growth in Europe, and the U.S. sector appears poised for substantial growth as well. The dynamic export cable, also known as an umbilical, is an integral part of bringing power from offshore wind turbines to where it's needed onshore, and a technology critical to the success of offshore wind. These cables have become an essential subsea power transmission component.

Addressing the Increased Need to Decommission Power Plants in a Sustainable Manner

How can decommissioning and remediation work be carried out in an economical and environmentally friendly manner? One way is by implementing proper planning and having the right partners in place to ensure both environmental and economic success. If the right steps are taken, decommissioning, remediating, and reclamation of a coal-fired power plant site can create enormous opportunity to revitalize an area and increase the wellbeing of its

citizens, while also eliminating the utility's environmental risk and liabilities.

Water Intake Reliability in the Age of Environmental Uncertainty: Key Considerations for Operators

Thermal power generators often take in large quantities of cooling water from natural sources. In recent years, however, there has been increased risk of intake blockages due to environmental changes in natural cooling water sources such as salp swarms in Korea, tiny shrimp masses in China, jellyfish blooms in Israel, and seaweed freed by storm activity in Russia, among others. The changing climate could increase the frequency of these types of events, so it's important for power plants to prepare now for water intake challenges.

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