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POWER

NEWS & TECHNOLOGY FOR THE GLOBAL ENERGY INDUSTRY SINCE 1882

EDITORIAL PREVIEWS

VALUE ADDED

Distributed Energy Special Advertising Section

POWER's October issue will include a Special Section on Distributed Generation. All full page and half page advertisers in the October issue will receive a bonus ½ page in our Distributed Generation focused special section to provide sponsored content on this topic and your company.

The special section will appear in time for POWER's Distributed Energy Conference which will be held from Oct. 3-6, 2022 in Denver, CO.

POWER's 140th Anniversary - Evolution of the Electric Generation Industry

In October 2022, POWER magazine will celebrate 140 years serving the electric generation industry. This project will include a collection of features and in-depth content focused on THE EVOLUTION OF THE ELECTRIC POWER GENERATION INDUSTRY. In order to participate in POWER'S 140th anniversary program, your company MUST have been in business for a minimum of 50 years. [CLICK HERE](#) to see how this custom program can work for you!

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COVER FOCUS: GAS TOP PLANTS

Anyang Combined Heat and Power Plant, South Korea

In early March, GE announced the start of commercial operation for GS Power's Anyang Combined Heat and Power (CHP) Plant Unit 2-2 in Anyang City, Gyeonggi Province, South Korea. The project consists of the renewal of older gas-powered assets with the latest turbine technology including one GE 7HA.02 gas turbine, with a matching GT H65 generator, one STF D650 steam turbine, and a ST A39 generator, along with a Mark* VIe distributed control system (DCS) software solution.

Cane Island Power Park, Florida

Cane Island came online in 1994 and has continuously exceeded expectations for reliability and efficiency. In 2021, the facility had record-breaking continuous runs for Unit 3 (234 days) and Unit 4 (185 days), and Units 2, 3, and 4 had exceptional availability—95.6%, 96.8%, 93.4% EAF, respectively—well above the industry average of 85%. Extensive maintenance was also completed on Unit 3 including installation of a new turbine rotor, compressor blading, and hot gas path components. The steam turbine was also completely disassembled.

HO Clarke Generating Station, Texas

Developed and operated by WattBridge, the HO Clarke generating station is the first commissioned by the company to provide fast-start, reduced-emission peaking power in Texas. The station is based on the first and only standardized LM6000 power plant design. In 10 minutes, it can produce 288 MW to meet demand for short or long durations. HO Clarke achieved commercial operations two months early despite COVID-19 challenges. Commissioned only two weeks before Winter Storm Uri, the station ran for 141 hours without interruption despite 60% of the ERCOT grid being down.

Long Ridge Energy Terminal, Ohio

Long Ridge Energy Terminal, located in Hannibal, Ohio, is powered by a GE 7HA.02 gas turbine and will be the first purpose-built hydrogen-burning power plant in the U.S., and the first worldwide to blend hydrogen in a GE H-class gas turbine. The Long Ridge plant produces 485 MW of power. The GE 7HA.02 gas turbine can burn between 15% and 20% hydrogen by volume in the gas stream initially and will have the capability to transition to 100% hydrogen over time. As the facility transitions to the production of green hydrogen with electrolysis, Long Ridge will have access to water from the Ohio River and is considering the use of below ground salt formations for large-scale hydrogen storage.

Muara Karang Power Plant, Indonesia

Mitsubishi Power completed the installation and commissioning of the 500-MW natural gas-fired gas turbine combined cycle (GTCC) power generation system for the Muara Karang Power Plant. This new facility was built on the northwestern coast of Java by Indonesia's state-owned electricity provider PT. PLN. The plant is reported to be the most efficient in Indonesia. Mitsubishi Power is also supporting maintenance and management of the GTCC system via remote monitoring and stationing of a full-time engineer at the site. Mitsubishi Power supplied the M701F gas turbine, while Mitsubishi Electric Corp. supplied the electric generator systems.

FEATURES

Water and Wastewater Treatment

Water has often been called the lifeblood of power plants. Boilers at coal plants, reactors at nuclear plants, and heat recovery steam generators at gas-fired combined cycle plants all require demineralized water to operate. Furthermore, most power plants have regular wastewater to deal with, the treatment of which is important to sustainability. This article will survey new techniques being employed to keep the water flowing throughout the industry.

Distributed Energy Resources

In the fashion industry, old styles seem to resurface from time to time. Now, that same phenomenon is happening in the power industry. Many power grids originated as distributed energy systems, but those were often converted into much larger, centralized power schemes. Today, distributed energy is making its way back, and it's likely here to stay. This article will explore the trend and some of the latest ways distributed energy resources are being added to the mix.

Decommissioning Power Plants

When power plants are retired, a whole new job begins. Rather than working 24/7 to keep the lights on, the focus changes to repurposing still-usable components, recycling scrap metals, cleaning up potentially damaging environmental hazards, and rejuvenating land for new purposes. Oftentimes, the task is handed off to experts who do this type of thing day in and day out. This article will dive into options and touch on successful decommissioning project examples.

The World Is on a Mission to Decarbonize

Almost every nation around the world has adopted some sort of decarbonization goal. Some are aggressively eliminating coal from their energy mix, while also focusing on ways to remove carbon emissions from their mobility sector. Many of the policies enacted affect the power industry, some positively, and some in more challenging ways. This article will examine the trends and provide insight on what the future may hold.

Temporary Boilers Help Keep Processes Going

When a forced outage strikes, it's often at the most inopportune time. It could be the coldest day of the year or the busiest season when processes need to run at their peak. If your boiler is down, you may not be able to just hope for a speedy repair, sometimes you need a temporary unit to fill the role. This article will examine the options and provide examples where temporary boilers saved the day.

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