VALUE ADDED

ENVIRONMENTAL

In our December issue of POWER magazine, we will have a special section focused on environmental issues in the industry where our partners can provide sponsored content to our audience.

We are offering discounted rates to our advertisers that would like to participate in this special section and provide sponsored content on this topic as well as promote your environmental control product/service and company and detail how you can help generating companies comply with the prevailing industry regulations. This will be the perfect issue and backdrop for your related marketing message.

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COVER FOCUS: HYBRID POWER PLANTS

Hybrid Power Plants: Variety Is the Spice of Life
It’s not uncommon to see multiple generation technologies incorporated into a single power project these days. Often, lithium-ion battery storage systems are the added option, but hydrogen- and ammonia-based alternatives are also gaining advocates. Furthermore, these solutions are not only being added to renewable projects, but also to fossil-fueled schemes, alleviating the need for quick starts and short runs.

FEATURES

Spotlight Shines on New Solar Power Technologies
The coronavirus pandemic slowed the renewable energy industry, and solar power in particular, but work on advanced technologies continues. These advances include upgrades to both software and hardware used in the solar industry, with a focus on improving power generation output and efficiency, along with helping solve issues of climate change.

Impacts of Bromide Discharges on Downstream Water Supplies
Until recently, there was only a minimal acknowledgement in U.S. Environmental Protection Agency regulations of the cross-media and cross-statute concern of bromide discharges from coal power plants to downstream drinking water facilities. There are impacts, however, and this article touches on the effects and what can be done to mitigate the problems.

Advances in Carbon Capture and Storage Technology
Boosted by Department of Energy, state, and academic support—and spurred by federal legislation and state mandates—carbon capture and storage technology is fast becoming a more viable and effective option for removing CO2 from power plant emissions. This article touches on the technology being used and how its implementation
Containment Failure Spurs Changes to Ash Hopper Systems
Due to environmental concerns and economic factors, power plants that use slurry containment systems are transitioning from traditional ash handling systems to more environmentally sound alternatives. Refractories play a key role in updated ash handling systems.

New Underground Cable Specifications and Guides Released
The Association of Edison Illuminating Companies’ (AEIC’s) Cable Engineering Committee continues to push the development and improvement of underground electrical systems by developing detailed cable specifications and guides that are followed by utilities, architects, engineers, and developers worldwide. Among its recently published specifications is CS8 “Specification for Extruded Dielectric, Shielded Power Cables Rated 5 Through 46 kV” and CG14 “Guide for the Design of Transmission Vaults.”

Cybersecurity in and for Large Energy Transmission Projects
Even before the Stuxnet malware program made international headlines in 2010, cybersecurity was an important issue for utility companies. In the aftermath of one of the largest attacks on supervisory control and data acquisition (SCADA) systems, the front against cyberattacks came together in a new and stronger form. How can today’s energy systems be protected from attacks? This article shows the way.

Employee Location Tracking in a Post-Pandemic World
COVID-19 has added a new layer of complexity to workplace safety. However, due to the movement toward digitalization, many power plants are actually better equipped to handle these new challenges than some folks might think. Employee location tracking and contact tracing technology is available and easily integrated into digital tools that already exist, adding functionality to address COVID-19 concerns. Today, plant owners have the means to reduce virus transmission rates and keep workers safe, while sustaining operations and maintaining high levels of efficiency.

Getting Ahead of Heat Exchanger Failures in the Power Industry
Heat exchangers are used in power plants to protect other valuable equipment, optimize energy consumption, and reduce associated operating costs. A properly selected, installed, and maintained heat exchanger can help enhance the reliability and efficiency of a fluid system. However, while heat exchangers provide high operating efficiency, they are exposed to specific risks that can lead to costly downtime, if left untreated.

Maintenance Planning and Execution Standards and Best Practices
Keeping current with North American Electric Reliability Corp. (NERC) requirements and determining Protection System Maintenance Plan details, equipment lists, and testing procedures have historically presented challenges that power plants struggle to address. This article will help identify and define which electrical maintenance tasks and testing should be performed on electrical assets.

The Cost of Turbine Modifications on HRSG Tubing
Combined cycle power plant gas turbine and steam turbine modifications can provide sizable economic gains, but these improvements often reduce the serviceable life of the heat recovery steam generator’s (HRSG’s) high-temperature sections, such as the high-pressure superheater and reheater harps. Economic studies to evaluate the financial benefit of turbine upgrades should consider a decrease in tubing life—up to and including the costs associated with a harp replacement—within the analysis.
December Issue: Equipment Showcase
POWER features a different power-related equipment category in selected issues throughout the year. In the December issue, we’re including a catch-all grouping, which will include a variety of items that didn’t necessarily fit into previous categories featured throughout the year. If your company would like to submit a product to be considered for free inclusion in the section, send a 150-word write-up to editor@powermag.com with details about the company and product, including a high-resolution image of the equipment and write “December Equipment Showcase” in the subject line.

January Issue: Diesel and Gas Generators
POWER features a different power-related equipment category in selected issues throughout the year. In the January issue, diesel and gas generators will be the focus. If your company would like to submit a product to be considered for free inclusion in the section, send a 150-word write-up to editor@powermag.com with details about the company and product, including a high-resolution image of the equipment and write “January Equipment Showcase” in the subject line.
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