

POWER

NEWS & TECHNOLOGY FOR THE GLOBAL ENERGY INDUSTRY SINCE 1882

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EDITORIAL PREVIEW

SEPTEMBER | AD CLOSE: AUGUST 1 | MATERIAL DUE: AUGUST 6

BONUS DISTRIBUTION

TURBOMACHINERY & PUMP SYMPOSIA (SEPTEMBER 10-12 | HOUSTON, TEXAS)

EGSA FALL CONFERENCE (SEPTEMBER 15-17 | SCOTTSDALE, ARIZ.)

CTOTF FALL (SEPTEMBER 15-19 | RANCHO MIRAGE, CALIF.)

LDC GAS FORUM MID-CONTINENT (SEPTEMBER 9-11 | CHICAGO, ILL.)

WEFTEC (SEPTEMBER 21-25 | CHICAGO, ILL.)

SOLAR POWER INTERNATIONAL (SEPTEMBER 23-26 | SALT LAKE CITY, UTAH)

2019 MEDIA KIT

COVER FOCUS: RENEWABLE TOP PLANTS

Bagnell Dam, Lake Ozark, Missouri

Ameren Missouri's Bagnell Dam stabilization project involved installing 67 new post-tension anchors to help hold the dam to the underlying bedrock; adding more than 33,000 tons of new concrete to further weigh down the dam; and overlaying worn and cracked concrete on the east and west sections. The 18-month-long project improved overall safety and reliability of the 85-year-old structure.

Lāwa'i Solar and Energy Storage Project, Kaua'i, Hawaii

When it was inaugurated in December 2018, the Lāwa'i Solar and Energy Storage project—a 28-MW PV plus 100-MWh battery energy storage system—was the world's largest operational solar-plus-storage system. Dubbed "the PV Peaker Plant," it offers a new model for stable, grid-scale renewable energy.

Noor Ouarzazate III, Ouarzazate, Morocco

The 150-MW Noor Ouarzazate III thermoelectric solar plant is part of the largest concentrated solar complex in the world. However, unlike I and II, which feature parabolic trough technology, III is a central receiver plant that uses heliostats and salt receiver technology. It has a storage capacity of 7.5 hours and is dry-cooled.

Rush Creek Wind Project, Colorado

The Rush Creek Wind Project is a 95,000-acre wind facility located on the eastern plains of Colorado—an area rich with wind power resources. The project was built by Xcel Energy and includes two wind farms, 300 Vestas wind turbines, and approximately 83 miles of transmission lines to connect and carry wind power output to homes and businesses across the state.

Storr Lochs Hydro Project, Scotland

As part of an extensive upgrade, the Storr Lochs small hydropower station got two new turbines, each fitted with a control unit. Its special external feature is a particularly compact design that allows it to be readily integrated into existing systems, even where space is tight. Among other advantages, the design does not require additional piping,

and the control unit do not need an additional accumulator and works with a very low volume of hydraulic fluid.

Veltoor Solar Farm, Mahbubnagar, Telangana, India

Aimed at becoming a benchmark of excellence in India, the Veltoor plant implemented cutting edge technology and systems. It is equipped with the latest tracker technology, which turns solar panels in sync with the sun's path through the day, improving the energy captured by ~20%. The plant automation system monitors the performance of each string of panels helping to maximize their yield. Digitizing operations and maintenance records optimizes monitoring and resolution.



FEATURES

The Age of Renewable Gas

The latest and perhaps greatest new power storage technique involves using surplus renewable energy to produce hydrogen. The gas is then stored for firing in a gas turbine when intermittent renewable resources tail off. Most gas turbine manufacturers are conducting research and development to perfect the technology, and at least one is aiming to operate a gas turbine on 100% hydrogen by 2023.

Five Inspections Made Easier with Drone Technology

Today, drones equipped with sensors and cameras are proving their worth in gathering real-time footage that can be stored for later analysis, such as up-close videos, thermal imagery and terrain maps, and cloud points using LiDAR and volumetrics. Un-crewed aerial systems can detect failing structures and equipment in less time and for less cost than traditional methods. Five examples are presented.

The Theory and Application of Acoustic Cleaners

Sound can be best described as the passage of pressure fluctuations through a medium by means of a vibrating source. It is these pressure fluctuations and the resulting compression and rarefaction cycles that are used by acoustic cleaners to move powders by breaking particle bonds. Acoustic cleaners are employed wherever ash, powders, or granular materials are processed, generated, stored, or transported, including in power plants.

Combustion Optimization to Improve Heat Rate and Reduce NOx

Power plant operators are always looking for ways to improve performance. A combustion optimizer designed to improve efficiency and lower emissions could help. It supports more-flexible operation of boilers by manipulating fuel and air control settings via closed-loop biases. This improves the combustion characteristics in the boiler, making it possible to operate in the optimum zone without drifting into the zone of high CO emissions.

Circulating Fluidized Bed Technology Is Well-Suited for Biomass Power Plants

Advancements in boiler technology and strong support from the South Korean government has made the Dangjin Bio-1 plant a huge success. The plant can reliably fire a wide range of domestic and imported renewable fuels including clean and recycled wood chips, virgin biomass, wood pellets, and palm kernel shells. At 105 MW, its capacity is three times larger than traditional biomass or waste-to-energy plants, and it doesn't need air pollution control equipment because the circulating fluidized bed boiler meets strict clean air standards.



EQUIPMENT SHOWCASE

Pumps

POWER features a different power-related equipment category in selected issues throughout the year. This month pumps 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 "August Equipment Showcase" in the subject line.



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Conference & Exhibition
April 14-17, 2020, Denver, CO
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Southeast, Northeast, Mid-continent,
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JAPAN

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