



SEPTEMBER | AD CLOSE: AUGUST 11 | MATERIAL DUE: AUGUST 12

SPECIAL ADVERTISING SECTION: [RENEWABLE ENERGY](#)

POWER's September issue will focus on Renewable Generation, featuring, among others, the annual Top Plant Awards for renewable generators, as well as a Feature Report on Wind Power Technologies and Economics, thus providing a wealth of information for readers with an interest in this topic.

All full page and half page advertisers in the September issue will receive a bonus 1/2 page in our Renewable focused special section to provide sponsored content on this topic and your company.

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COVER FOCUS: RENEWABLE TOP PLANTS

Hydrostor Goderich A-CAES Facility, Goderich, Ontario, Canada

The Goderich Advanced Compressed Air Energy Storage (A-CAES) Facility is the world's first commercial energy storage project to utilize Hydrostor's proprietary technology. The plant represents a pivotal advancement in long-duration energy storage.

Genale-Dawa III Hydropower Project, Ethiopia, Africa

The Genale-Dawa III hydropower project provides Ethiopia with essential renewable energy. The project consists of a 110-meter-high concrete-faced rockfill dam with a crest length of 456 meters, creating a reservoir volume of 3.2 million cubic meters. Three vertical Francis turbine generators, each with a generating capacity of 84.7 MW, are housed in an underground cavern.

Kokomo Solar 1, Indiana, U.S.

Although the 7-MW Kokomo solar farm isn't particularly large, it is notable because it was built on a former Continental Steel parcel—a remediated superfund site that's been vacant for more than a decade due to pollution. The innovative project found broad support from Kokomo residents, who wanted the land repurposed in a sustainable manner.

Supcon Delingha 50-MW CSP Plant, Qinghai, China

The Supcon Delingha 50-MW molten salt tower solar thermal project is one of the first batch of 20 demonstration concentrating solar power (CSP) projects in China. It has proven to be highly successful, achieving monthly generation fulfillment rates as high as 102.9%.

WindGas Falkenhagen, Brandenburg, Germany

Uniper Energy Storage constructed the world's first demonstration plant for storing wind energy in the natural gas grid. The plant generates power with wind turbines to produce about 360 cubic meters per hour of hydrogen by means of electrolysis. The hydrogen is fed via a 1.6-kilometer pipeline into the gas grid. In this way, the energy is available to the electricity, heating, mobility, and industrial market as and when required.

FEATURES

Nuclear Waste Disposal

The debate over waste from the world's nuclear power plants, particularly those in the U.S., continues. With more nuclear plants closing in the U.S. and worldwide, the question of how to store nuclear waste has potential answers with new technologies, and with companies creating business models for interim storage as the search for permanent repositories continues.

The Benefits of Reciprocating Engines for Power Generation

If you want a flexible and reliable power plant, you can't beat the modularity offered by reciprocating engines. Unlike large combined cycle gas turbine units, combustion engine power plants comprised of multiple generating units have a wide range of load turndown, making the facilities a nice complement to intermittent renewable energy resources and well-suited for distributed energy applications.

Wind Power Technology Development Trends

This article describes state-of-the-art wind energy harvesting technologies and their commercial prospects. A new aerodynamic design method for vertical-axis wind turbines is presented. By comparing the levelized cost of energy of the super turbine and other wind energy harvesting technologies, the development direction of the new wind energy harvesting technology is explained.

Energy Storage: America's New R&D Priority to Secure the Grid

The U.S. Department of Energy has made long-duration energy storage at fossil fuel generating stations a priority to keep reliable and affordable supplies of electricity flowing. The National Energy Technology Laboratory is managing the program. Research and development (R&D) in four main areas of energy storage technology (thermal, mechanical, chemical, and hybrid) is being explored.

Putting Idle Turbines to Work

The many gas turbines and combined cycle power plants deployed in the 1990s and 2000s were expected to enjoy long lives. Yet, changes in policy and competition from renewables have led to some being mothballed. Underutilized gas and steam turbines can be retrofitted to offer synchronous condensing.

Mitigating Emerging Utility-Scale Solar Project Risks

America's energy systems are being led by renewables development, both now and in the foreseeable future. This article discusses emerging risks and possible mitigation strategies for current and prospective utility solar stakeholders.

Technology in Construction: Matching Technologies to Specific Challenges

In Part I of this three-part series—published in the May issue—recent trends in technology adoption across the construction industry were examined. Part II, in July, relayed proven advice on how a company can select and roll out relevant tools. In September, Part III will focus on matching technologies with specific challenges.

EQUIPMENT SHOWCASE/SHOW PREVIEW

September Issue: Turbomachinery Equipment Showcase

POWER features a different power-related equipment category in selected issues throughout the year. In the September issue, turbomachinery 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 "September Equipment Showcase" in the subject line.

October Issue: Distributed Energy Show Preview

POWER includes a show preview in the October issue, featuring companies sponsoring and/or exhibiting at the Distributed Energy Conference, which will be a virtual event this year in light of the coronavirus. If your company is participating in the event and would like to be considered for free inclusion in the section, send a 150-word write-up to editor@powermag.com with details about the products or services being offered. Write "October Show Preview" in the subject line.

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Sept. 28 - Oct. 1, Kansas City, MO

Distributed Energy Conference
October 19 - 21, 2020, Chicago, IL
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