

POWER

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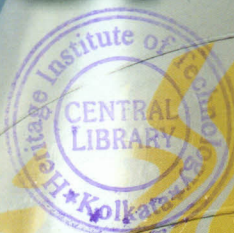
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RENEWABLE TOP PLANTS

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26/9/23

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в час війни 2022 р.

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DTEK Renewables



Access
Intelligence

POWER

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SPEAKING OF POWER

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Around the World

GLOBAL MONITOR

Companies Announce Advancements for Diesel-, Gas-Powered Engines

THE BIG PICTURE: Energy Land Use Intensity

Major Austrian Utility Optimizing Energy Storage with Battery
Analytics Software

South Korea's First 'K-Gas Turbine' Begins Commercial Operation

POWER Digest

FOCUS ON O&M

Ester Transformer Fluids Bring Innovation to Clean Energy Systems

Planning Is Key to Successful Nuclear Refueling Outages

LEGAL & REGULATORY

Streamlined Permitting Key to California's Floating

Offshore Wind Development

By Lindsay Puckett, Stoel Rives LLP

COVER FOCUS: RENEWABLE TOP PLANTS

Hydropower Horizons: Pioneering a Pelton Turbine Breakthrough

Replacing four vertical Pelton turbines at a 75-year-old pumped-storage hydro facility in Austria with a first-of-its-kind horizontal six-nozzle Pelton turbine was not an easy job. However, the innovative project could give the hydro-power sector new leverage to modernize.

Solar Farm at a Landfill Site Brings New Meaning for Waste to Energy

A reclaimed landfill in New Jersey is the location of a landmark renewable energy project, showcasing the potential of brownfield sites when it comes to building more power generation.

A Symbol of Courage and Invincibility:

DTEK Completes Wind Farm Despite War

Building a power generation project in the middle of a war zone is no small feat. Staying the course despite the constant threat of attack takes a particular amount of mettle, and certainly requires courage. A wind farm in Ukraine is an example of that mettle, and that courage—and it's been honored with a POWER Top Plant award.

FEATURES:

ELECTRICAL MAINTENANCE

Austin Energy Power Production Cable Defects

An energy company is rethinking and modifying its inspection process after problems with cables at a Texas power plant caused serious issues.

ON THE COVER

The turbines installed in the Tyligulska Wind Power Plant are not particularly special, although they are the most-powerful models currently installed in Eastern Europe. What makes the site truly remarkable is that it was constructed despite the constant threat of air strikes near the front lines of the war in Ukraine. Courtesy: DTEK Renewables



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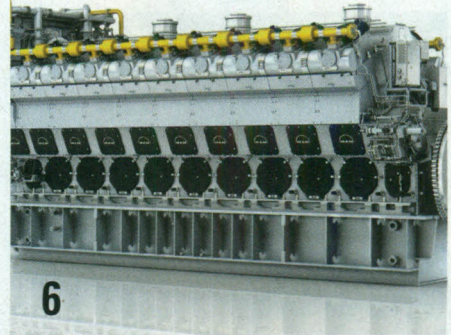
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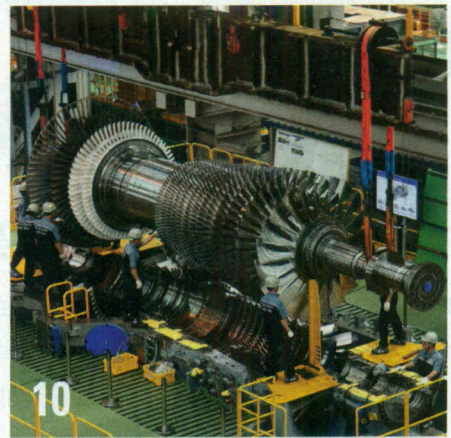
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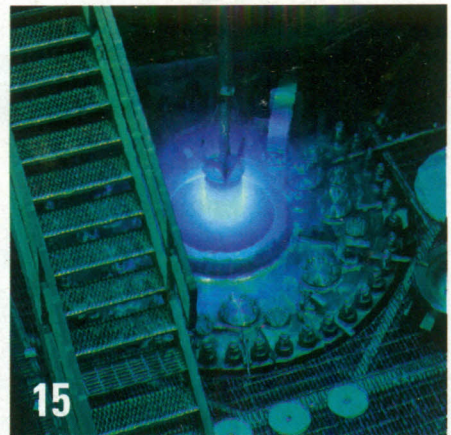


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HYDROGEN

Moving Toward a Hydrogen Economy—in the U.S. and Beyond

28

The hydrogen economy is coming. But how will it unfold? A variety of challenges must be met, including the advent of new technologies, infrastructure buildout, and government support.

RISK MANAGEMENT

AusNet Embraces Data-Driven Storm Impact Modeling

30

Electric utilities are not only gathering more data to inform their decisions, they also are using digital technologies to better analyze this data, helping them model and manage information to make their operations more efficient and economic.

POWER TRANSFORMERS

How the Energy Transition Is Impacting the Transformers Market

32

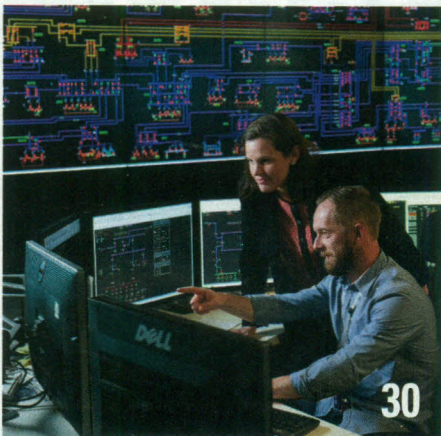
The global transformer market is preparing for upheaval as the power sector embraces new technologies, and the power grid evolves with the integration of renewables and the need for updated infrastructure.

MARNIE SURFACEBLOW

Bowing Under Pressure

34

Marnie and Maya travel to Canada to troubleshoot issues at an older coal power plant that added wood pellets to its fuel mix. Marnie creates a laser show in the conveyor room to help identify the problem.

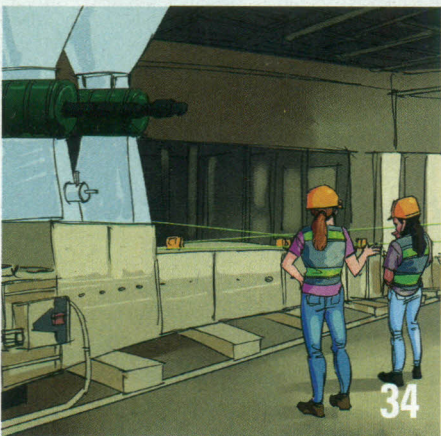


EXTREME WEATHER

Lessening the Impacts of Extreme Weather

Web

From droughts to wildfires, from severe storms to major hurricanes, extreme weather occurrences are at an all-time high. This article explains how to prepare for and respond to the impacts of different scenarios, as these events become more frequent, damaging, and costly. (Visit powermag.com and search "Lessening the Impacts of Extreme Weather" to read this online-only exclusive.)



COMMENTARY

Building Energy Transmission Takes Time—Batteries Can Fill the Gap

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By Eric Dresselhuys, ESS Tech Inc.

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