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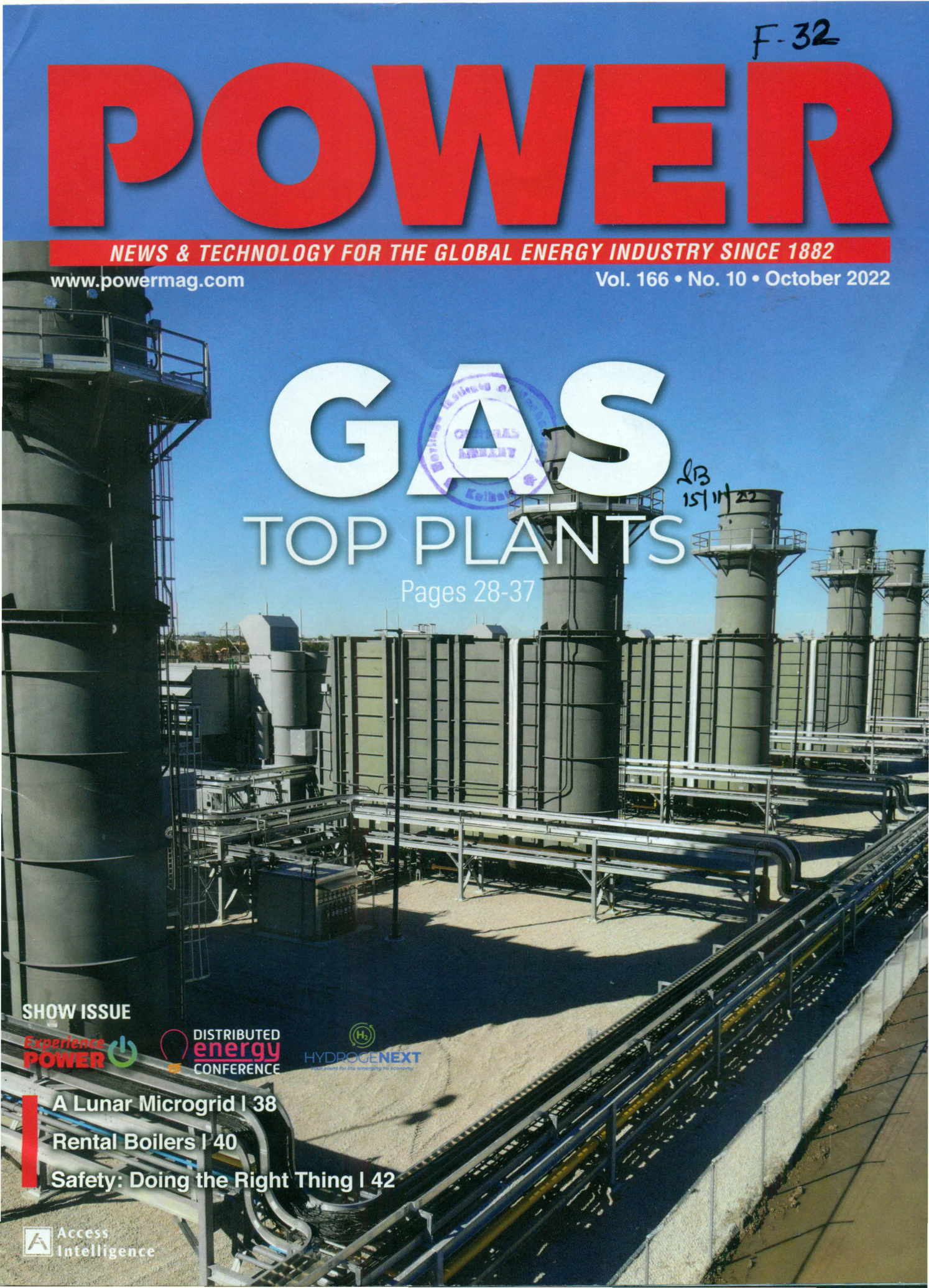
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GAS TOP PLANTS

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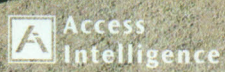
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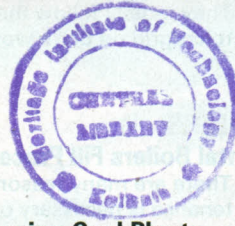
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By Dena Adler, New York University School of Law's Institute for Policy Integrity

COVER FOCUS: GAS TOP PLANTS

Innovation, Efficiency at Heart of CHP Plant Upgrade 28

Updating the gas turbine technology at a combined heat and power (CHP) plant in South Korea has improved the facility's efficiency for both electricity generation and its district heating capability. The project also furthers the country's plan to reduce the carbon footprint of its power generation sector.

Fun in the Sun: Cane Island Is a Central Florida Treasure 30

A Central Florida power plant in the shadow of Disney World could have its own theme, centered around reliability and efficiency. The Cane Island facility has performed with record availability, performance made even better by recent upgrades to Unit 3 at the site.

A New Breed of Energy Security: HO Clarke Power Plant 32

HO Clarke pioneers a standardized LM6000PC power plant design that sets new benchmarks for gas peaking power development and construction. Built in just 38 weeks despite COVID lockdowns, the plant provided critical power to the power-strapped Texas grid during Winter Storm Uri.

Harnessing an H-Class for Hydrogen: Long Ridge Energy Terminal 34

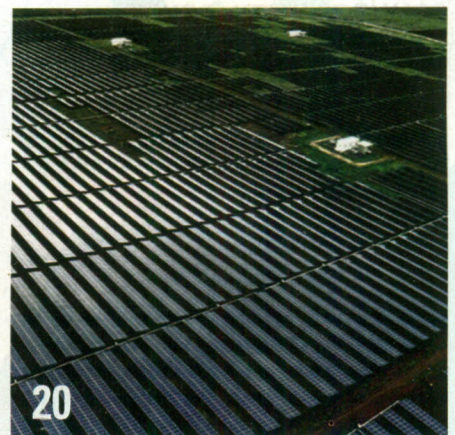
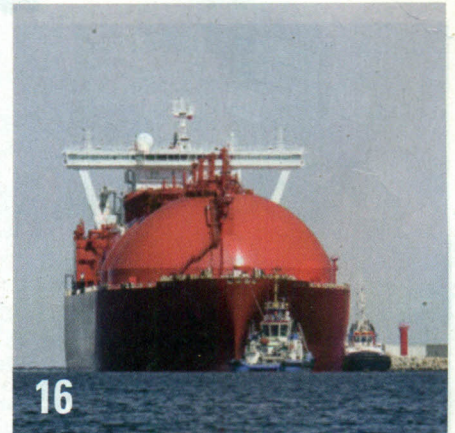
Long Ridge Energy Terminal in Hannibal, Ohio, was built as the first purpose-built power plant in the U.S. to generate power with hydrogen fuel. The power plant recently completed a first firing test, kicking off its journey to larger amounts of hydrogen.

Expansion Project Furthers Indonesia's Increase in Power Generation 36

The expansion project at Muara Karang provides 500 MW of gas-fired generation capacity for the Jakarta area. Expanding the facility is part of the Indonesian government's plan to develop several gigawatts of new power generation capacity.

ON THE COVER

HO Clarke is a 288-MW peaker in Houston, Texas, equipped with six LM6000PC units. One of the reasons PROENERGY developed the plant was to provide a physical showplace for its product, but during Winter Storm Uri the plant proved its worth by operating reliably in support of the ERCOT power grid. *Courtesy: PROENERGY*





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FEATURES:

DISTRIBUTED ENERGY

Microgrids on the Moon: Discussing the Functionality of Remote Microgrids in Harsh Environments

38

Remote microgrids can utilize solar arrays and run on autonomous operating systems in an "island mode," meaning detached from an external electrical grid. Lunar microgrids are simply remote microgrids operating on the moon. They mostly follow the same applications and parameters that a remote microgrid on Earth would follow, with some additional considerations.

BOILERS

Rental Boilers Fill Process Steam Gaps During Crucial Production Periods

40

There are many reasons you might need a rental boiler. It could be maintenance is necessary on your usual equipment or you've experienced an increase in steam demand, which can't be met by installed systems. Whatever the case, a rental boiler can help get you through the situation without disrupting business.

MARNIE SURFACEBLOW

Standing Up for Safety: Maya Sounds the Alarm, but Will Anyone Listen?

42

Problem-solving is in Marnie Surfaceblow's DNA. Where others see challenges, Marnie sees opportunities. Her latest adventure not only tests her engineering mettle, it also provides a chance to showcase the expertise of her colleague Maya.

ELECTRIFICATION

Switching to an Electric Forklift: How to Calculate the Battery Amp-Hour Capacity

Web

Switching from a fossil fuel-powered fork truck to electric brings tangible benefits to users. However, it's important to understand how to calculate the lithium battery amp-hour capacity for electric forklifts so you don't end up with inadequate equipment. (Visit powermag.com and search "Electric Forklift Battery Capacity" to read this online-only exclusive.)

COMMENTARY

How to Continue the Solar Jobs Success Story

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By Larry Sherwood, Interstate Renewable Energy Council (IREC)

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