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COVER FOCUS: COAL TOP PLANTS

Engro Powergen Thar Ltd. (EPTL) Thar Block II, Sindh, Pakistan

EPTL's power plant is a pioneering project in generating electricity using indigenous lignite coal from the Tharparkar district. The plant is equipped with two 330-MW circulating fluidized bed boilers with a unique steam-cooled cyclone arrangement. The plant is equipped with state-of-the-art environmental control technology, and designed to operate reliably in a harsh desert environment that experiences extremely dusty conditions and ambient temperatures of up to 50C.

American Bituminous Power Partners (ABPP) Waste Coal Power Facility, Grant Town, West Virginia

ABPP is an 80-MW waste coal power facility that has worked in conjunction with the West Virginia Department of Environmental Protection (WVDEP) to remove coal refuse from two nearby sites in Farmington and Barrackville. The Farmington site has been reclaimed and turned into a potential commercial-use site, while improving the water quality being discharged from the site. The Barrackville site has been recognized by Ducks Unlimited and the WVDEP Office of Mining and Reclamation for a wetlands restoration project, and it has demonstrated the effective use of ash as a reclamation amendment. Furthermore, the power plant has improved efficiency and environmental performance in recent years.

Taeon Integrated Gasification Combined Cycle (IGCC) Power Plant, Taeangun, Chungcheongnam-do, South Korea

IGCC power generation technology can significantly reduce emissions of SOx, NOx, and particulate matter compared to conventional coal-fired boiler power generation by producing syngas from coal, which can then be used in gas-fired combustion turbines to produce electricity. While the technology has faced many challenges over the years, Korea Western Power's Taeon plant broke the world record for IGCC continuous operation without failure when it surpassed 3,993 consecutive hours of operation earlier this year.

FEATURES

Phnom Penh Power Plant: An Investment for the Future of Cambodia

The Phnom Penh power station is a 200-MW facility with 11 MAN 18V51/60DF engines, which are capable of supplying the average energy requirements for about 70,000 Cambodian households. The plant supports the country's decarbonization goals, because the dual-fuel technology allows engines to operate on heavy fuel oil today, with the capability to operate with much lower emission natural gas when gas infrastructure is constructed in Cambodia in the future. The technology is uniquely suited for developing countries that want to reach their climate targets but also want to expand their economies.

Innovative Strategies for Improving the Power Grid

Many experts believe the U.S. transmission and distribution (T&D) system must be upgraded to accommodate for the changing nature of power generation, which includes more wind and solar power, and less coal and nuclear generation. This article will explore innovative ways to add transmission capacity without the lengthy planning and permitting delays typically associated with large-scale T&D projects.

Unique Monitoring Strategy for the Huntly Power Station

Monitoring steam turbo-generators in a typical thermal power station is normally straight forward without any particular issues, but Huntly presented special challenges. When the time came to replace the legacy monitoring system, very demanding monitoring requirements had to be fulfilled. This article dives into the specifics.

Perspectives on Energy Recovery from U.S. Plastic Waste

While plastics can be recycled, the amount that actually does get reused is much less than most people realize. Sending plastic to landfills, where it can take up to 600 years to decompose, is not ideal. However, waste-to-energy facilities offer a large-scale solution because plastics enrich the calorific value of municipal solid waste and modern emission control equipment makes it safe to burn.

Improving Energy-from-Waste Plant Operations Through Intelligent Management

One way to improve a power plant's operational performance involves "intelligent management." This article will introduce a framework and its components for managing plants intelligently and effectively by drawing on more than two decades of operational experiences at energy-from-waste plants across Taiwan.

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