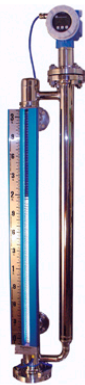


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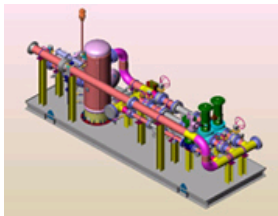
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APRIL 2009

[New MGWR allows feed water heaters to operate with greater safety and efficiency](#)

The Jerguson® Division of Clark-Reliance Corporation now offers the Magnetic Gage with integral Guide Wave Radar (MGWR) Transmitter which brings an added level of safety, security and efficiency to feed water heaters in a power plant.

The MGWR works independently of the Jerguson Magnicator II level indicator, and is ideally suited for feed water heater applications in power plants. The Guided Wave Radar (GWR) Transmitter is not subject to errors due to density variations (caused by temperature changes) as with other buoyancy type transmitters. The GWR transmitter provides an accurate level measurement regardless of fluid density, providing reliable level indication from cold-up start through operation. The Magnetic Level Gage Indicator provides redundant, local indication and requires lower maintenance over a glass gage, typically used for visual level indication.

All MGWR units feature a flanged GWR by-pass chamber as standard for easy maintenance and inspection. The by-pass chamber also includes an elbow at the bottom so fluid drains back into the magnetic gage, eliminating the need to pipe for a second drain.

Redundant level measurement package, visual indicator and transmitter are independent of one another for increased reliability. Accurate transmitter signals allow operators to run their plant more efficiently, holding the water level at or below the bottom row of tubes inside the heater.

[Energy Outlook 2050: Lower carbon, but not so renewable](#)

New York Times April 8, 2009

The electric system at mid-century will have a lot more renewable energy than it does today, but coal and nuclear power together will still supply two-thirds of the energy, according to a new study from the Electric Power Research Institute.

Wind and biomass, meanwhile, will supply about a quarter of the electricity, while solar power will not play a significant role, the study predicts.

[U.S. power plant carbon emissions fell in 2008](#)

Environmental Leader April 8, 2009

Following years of steady growth in power plant emissions, total U.S. power plant carbon emissions fell 3.1 percent in 2008, according to the Environmental Integrity Project.

The drop in carbon emissions is not expected to be a lasting trend. The Environmental Integrity Project points to Department of Energy data that suggests power-related carbon emissions will jump 15 percent between 2009 and 2030. This is primarily because of permits issued for new or expanded

coal plants.

[Biogas plant runs purely on nonedible materials](#)

Power Magazine April 1, 2009

German researchers have developed the first-ever biogas plant to run purely on waste instead of edible raw materials. The plant, which uses a fuel cell to convert the gas into electricity, exclusively uses agricultural waste such as corn stalks and it generates 30 percent more biogas than conventional plants.

Researchers also claim to have optimized the conversion of biogas into electricity by diverting the gas into a high-temperature fuel cell with an electrical efficiency of 40 percent to 55 percent.

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