



2009 WISCONSIN

Renewable Energy Summit

Renewables, Sustainability, Energy Efficiency,
Social Responsibility, and Green Energy Practices

Water Technology

Session 18-1

DATE:

WEDNESDAY, MARCH 25, 2009

Breakout Session 18-1:

Time:

1:30pm - 3:15pm

Presenters:

The Water – Energy Nexus

Franz Hoffmann, Water Council/GMC

Water is a natural resource that serves many purposes including resource extraction, processing, and transportation. Water is also an integral part of energy resource development and utilization. In 2000, thermoelectric power generation accounted for 39 percent of all freshwater withdrawals in the U.S., roughly equivalent to water withdrawals for irrigated agriculture. Today, industrial and municipal water and byproduct management as well as wastewater treatment consume enormous amounts of energy, mostly in the form of electricity and natural gas. With respect to a more sustainable use of natural resources solutions are presented that can help create a more integrated approach resulting in efficiency increases while reducing costs, risks, and the burden on our environment. This presentation will provide an overview of energy needs for water management and water needs for energy production, and highlight specific opportunities to improve efficiency and sustainability.

Presenter Biographies:

Dr. Franz Hoffmann

Dr. Franz Hoffmann is Board Member of the Milwaukee 7 Water Council Inc. and Affiliate Scientist at the Great Lakes WATER Institute, University of Wisconsin-Milwaukee. He held management positions at Daimler AG's AEG Division, at Swiss-based environmental sensor manufacturer Endress+Hauser, at Germany-based industrial sensor manufacturer SICK AG and created Procorp Enterprises LLC, a water technology innovator for biomass recycling and fluidized bed technology applied to nano-scale minerals precipitation for salt-free water softening, phosphate extraction, and radium removal in solid form.



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