January/February 2005

STEAMING AHEAD

Energy Efficiency News for Steam Plant Managers

Published by the Alliance to Save Energy and the U.S. Department of Energy (DOE)

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For the full Steaming Ahead events calendar, visit:
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ALLIANCE TO SAVE ENERGY, ENVIRONMENTAL GROUPS, MAJOR INDUSTRIAL NATURAL GAS USERS URGE CONGRESS TO USE ENERGY EFFICIENCY TO EASE NATURAL GAS CRISIS

On January 3, 2005, The Alliance to Save Energy joined 10 major industrial consumers of energy as well as energy and environmental advocacy organizations in writing a letter to President Bush and members of Congress, urging them to adopt energy-efficiency policies to ease the crisis being caused by the continuing, historically high prices for natural gas. Signatories of the letter called for new U.S. natural gas policies to address the tension between natural gas demand and limited supply, and to promote more environmentally responsible gas development.

> "Factories are closing, jobs are moving offshore, and consumers are struggling to pay home heating bills as a result of the continuing and alarming high costs of energy, particularly natural gas," said Alliance President Kateri Callahan. "Natural gas production is not keeping pace with growing demand. Only by becoming a more energy-efficient nation can we hope to lower consumption and help to bring price relief to businesses and consumers for the benefit of our economy, environment, and our national energy security."

Letter signatories included representatives from the U.S. Combined Heat and Power Association, the Natural Resources Defense Council, and the American Council for an Energy-Efficient Economy: http://aceee.org/energy/natgasprinciples.pdf.

WHERE TO LOOK FOR NATURAL GAS INFORMATION

The U.S. Department of Energy's Energy Information Administration (EIA) is a one-stop source for widely used energy information. The EIA has four types of information products: Energy data, analyses, forecasts, and descriptive information telling you more about each of its products. Many products, such as the *Petroleum Supply Monthly*, deal with specific industries. Of particular interest may be products containing data on fuel types presented in an integrated manner. Some key publications that present this kind of integrated information are the *Monthly Energy Review*, the *Annual Energy Review*, the *Short-Term Energy Outlook*, and the *Annual Energy Outlook*. For more information, visit the EIA website: http://www.eia.doe.gov/.

BestPractices Program News

CORRECTION TO SSAT VERSION 2.2.0

A correction for a recently identified error in the Steam System Assessment Tool (SSAT), version 2.0.0, is now available. The error, which resulted in a lack of convergence of the model calculation when the PRV/desuper-heating option was turned on, is easily corrected by downloading the updated version 2.0.0 2-header template from: http://www.oit.doe.gov/bestpractices/software_tools.shtml.

Place the new 2-header template in the "Templates" folder created when you install SSAT and delete the previous version of the 2-header model template. If you have further questions, contact Anthony Wright at Oak Ridge National Laboratory: 865-574-6878, wrightal@ornl.gov.

NEW SOFTWARE TOOL AND TRAINING HELP OPTIMIZE FAN SYSTEM PERFORMANCE

The U.S. Department of Energy's Industrial Technologies Program (ITP) released a new Fan System Assessment Tool (FSAT). It is now available for download from the BestPractices website: http://www.oit.doe.gov/bestpractices/software_tools.shtml. The FSAT is powerful software that quantifies the potential benefits of optimizing fan system configurations.

ITP also offers a one-day Fan System Training workshop to make the most of the FSAT and help industry leaders gain valuable insight to better manage fan systems : http://www.oit.doe.gov/bestpractices/training/fsat_training_sessions.shtml.

New DOE Web Site With Energy-Saving Tips

The Department of Energy (DOE) launched a new Web site in December of 2004, with detailed information and tips on how to save money by developing smart energy habits. The site, www.EnergySavingTips.gov, serves as a consumer-friendly portal to detailed energy-saving information from various federal agencies. To learn more about energy saving tips specific for industry, visit: http://www.eere.energy.gov/consumerinfo/industry/.

Case Study: Coburg, Oregon

COMPRESSED AIR SYSTEM SAVES ENERGY, IMPROVES PRODUCTION AT A SAWMILL

Weyerhaeuser, a DOE Allied Partner, is saving 6.8 million kWh and $250,000 in annual energy costs; it all started in Coburg, Oregon, with an energy-efficient compressed air system. To view the full article, visit: http://www.oit.doe.gov/cfm/fullarticle.cfm/id=855.

Plant-Wide Energy Assessments Save Electricity and Expenses

ITP ANNOUNCES SIX PLANT-WIDE ASSESSMENT AWARDS

Solicitations are just one of the ways that ITP partners with industry to increase energy efficiency and productivity, and reduce waste. The Industrial Technologies Program (ITP) recently announced selection of six projects in response to the ITP Plant-wide Assessment (PWA) Financial Opportunity Announcement. ITP plans to contribute $530,000 towards the projects, which will investigate plant energy efficiency, and identify energy-saving opportunities and projects. To read more about the awards, go to: http://www.eere.energy.gov/industry/news/news_detail.html/news_id=8686.

PLANT ASSESSMENT REVEALS POTENTIAL FOR SIGNIFICANT ENERGY SAVINGS

An assessment conducted at Anchor Glass facilities in Warner Robins, Georgia, and Jacksonville, Florida revealed opportunities that could result in significant annual energy savings. The assessment team estimated the total potential savings at approximately 220,000 million British thermal units (MMBtu) per year for fossil fuels, and approximately 4 million kilowatt-hours (kWh) per year for electricity, if all projects were implemented. The associated capital required to achieve the fossil fuel savings was estimated at approximately

$800,000, while that required to achieve projected electricity savings was estimated at $250,000. Average simple payback periods calculated for the primary recommendations ranged from 1 to 2 years. For the full article, visit : http://www.oit.doe.gov/bestpractices/energymatters/fall2004_glass.shtml

DOE's EERE Information Center Provides Answers

DOE.'s Energy Efficiency and Renewable Energy (EERE) Information Center has helped thousands of industries identify cost-effective ways to improve energy efficiency. Through the Information Center, industries and industrial service providers can access Industrial Technologies Program resources to help make their industries more energy-efficient, productive, and competitive. To view the full article, visit: http://www.oit.doe.gov/bestpractices/energymatters/fall2004_answers.shtml. For more information, contact the EERE Informational Center at 877-EERE-INF (877-337-3463), or e-mail: eereic@ee.doe.gov.

Events

U.S. Department of Energy Optimizing Steam System Performance Workshops

Optimizing Steam System Performance workshops are one-day awareness workshops exposing participants to DOE BestPractices Steam software tools and resources, steam system optimization opportunities, and available industrial assistance programs. Upcoming workshops:

March 22, 2005: Atlantic City, New Jersey
For questions and registration, contact Adam Hudson: 202-530-4356, ahudson@ase.org

U.S. Department of Energy Steam End-User Training

The DOE BestPractices Steam End-User Training Course is a one-day training session covering the operation of typical steam systems and methods of system-efficiency improvements. The course encompasses steam-generation efficiency, resource-utilization effectiveness, and steam distribution system losses. The course familiarizes participants with DOE BestPractices Steam Software Tools for steam system assessment and optimization. For a course description, visit http://www.steamingahead.org/temp/eutraining_desc.pdf. Upcoming courses:

January 20, 2005: Waltham, Massachusetts
For questions and registration, contact Eric Winkler: 413-545-2853, winkler@ecs.umass.edu

February 17-18, 2005: Auburn, Alabama
For questions and registration, contact Woody Rice: 404-894-6702, woody.rice@ipst.com

February 22, 2005: Irwindale, California
For questions and registration, contact Chris Lydoff: 626-812-7370, chris.lydoff@sce.com

February 24, 2005: Tulare, California
For questions and registration, contact Gary Pikop: 559-625-7127, pikopgj@sce.com

U.S. Department of Energy Specialist Qualification Training

The BestPractices Steam Specialist Qualification Training Program is a two-and-a-half day course teaching the effective use of DOE BestPractices Steam software tools. Participants who pass the final exam are recognized by DOE as Qualified Specialists in the use of the BestPractices Steam Software Tools. Upcoming courses:

January 25-27, 2005: Downey, California
For questions and registration, contact Tony Wright: 865-574-6878, wrightal@ornl.gov