



Texas Industries of the Future

15th Texas Industrial Energy Management Forum **Achieving *Superior Energy Performance***

Thursday, April 7, 2011

Brady's Landing
Houston, Texas

Superior Energy Performance is a national site-based energy efficiency certification program which will be launched in 2011. The program is organized around ISO 50001, a soon to be finalized international management standard for energy.

Superior Energy Performance was piloted from 2008 to 2010 in Texas by four plants: Cook Composites and Polymers, Houston plant; Freescale Semiconductor, Inc., Oak Hill plant; Owens Corning, Waxahachie plant; and Union Carbide (a subsidiary of Dow Chemical Company), Texas City plant. The plants provided substantial input into the design of the program, as did other end-users on the US Council for Energy-Efficient Manufacturing. The four plants saw verified energy performance improvements from 6.5% to over 15% over a two to three year period.

Come hear what the Texas plants learned about implementing an energy management system and demonstrating energy performance improvements—the benefits, the barriers, and the lessons learned.

Moderator

Michael Gromacki
Vice President of Operations / Chief Sustainability Officer
Dixie Chemical Company, Inc.
Member, Texas IOF Advisory Committee

Presentations

The Future of Energy Management: ISO 50001 and Superior Energy Performance
Paul Scheihing, US DOE, Industrial Technologies Program

Mr. Scheihing will present the status of *Superior Energy Performance*, a national energy-efficiency certification program that was piloted in Texas. He will also describe the forthcoming international standard for energy management, ISO 50001, and its relationship to the *Superior Energy Performance* certification program.

Implementation of Superior Energy Performance at a Semiconductor Fab
Mark Krawczyk

Freescale Semiconductors, Inc

Freescale integrated energy management into their existing environmental, health and safety management system based on ISO 14001 and OHSAS 18001. The energy management system helped transform the emphasis from efficiency at the project level to focusing on improving key performance indicators developed to monitor the operation of major energy using plant systems. KPIs are used for continual improvement of energy efficiency in central utility plant and at point of use in manufacturing.

Implementation of Superior Energy Performance at a Small Batch Chemical Plant

Patricio Cueva

Cook Composites and Polymers, Inc

He will provide his perspective on integration of the energy management system into existing systems, creating an effective balance of plant involvement and corporate support. CCP leveraged its experience in the Texas pilot project at the Houston plant to develop a corporate program on energy management.

Implementation of Superior Energy Performance at an Insulation Plant (20 min.)

Gary Chastain, Environmental and Energy Leader, Waxahachie Plant

Owens Corning

This presentation shares first-hand experience of implementing a Management System for Energy and Superior Energy Performance by the Owens Corning Waxahachie, Texas plant. At the time that the plant volunteered for the Texas Pilot Program, the Owens Corning - Waxahachie plant was considered a large plant with a mature energy program - large, due to their actual size and energy consumption; and mature, due to the company/plant's structure and process for energy, which was already imbedded within the organization. The presentation discusses the resources required during implementation, identifies external and internal challenges faced during implementation, outlines the benefits a large, mature company should realize from implementing such a program, as well as the challenges the Owens Corning – Waxahachie plant faces going forward.

Panel Discussion

Panelists

Mark Krawczyk, Freescale Semiconductor

Deb Magoon, CCP

Gary Chastain, Owens Corning

Dave Hake, Dow Chemical

Awards

Dub Taylor, Director, Texas State Energy Conservation Office

Paul Scheihing, Program Manager, US Department of Energy

Funding for the Energy Management Forum is provided by the US Department of Energy, under a contract with the State Energy Conservation Office of the Texas Comptroller of Public Accounts.

A recording of the Forum is available for viewing at the AIChE website. If you would like to view the webcast, you can register at

<http://apps.aiche.org/chemeondemand/Preview.aspx?ID=60122057-000a-42cf-a0b7-20aca6d81cd8> Cost is \$199 for professional and student members of AIChE (the fee is waived if members have enough free credits left; each member gets 6 free credits per year) and \$259 for non-members of AIChE.