



2009 WISCONSIN

Renewable Energy Summit

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

Business: Green Technologies & Practices Session #2-1

DATE:

Breakout Session 2-1:

Time:

Presenters:

WEDNESDAY, MARCH 25, 2009

1:30pm - 3:15pm

Sustainable Business Practices

Joseph J. Jacobsen, Milwaukee Area Technical College

This presentation is an introduction to developing and implementing a successful program in the domain of sustainability and social responsibility. The importance of building business value while improving environmental and social outcomes over the long run is a running theme throughout. The learner is introduced to methods of implementing technologies and practices and how to measure the consequent social and environmental performance. Reporting and presenting social and environmental performance is given full treatment. This presentation reveals the most widely used concepts of sustainability and social responsibility in the modern business organization. Likely to be the most important change of the 21st century, this overview addresses the essence of the emerging green economy.

The presentation is targeted towards existing and aspiring leaders in small, midsize or large businesses who are interested in promoting and adopting sustainable and socially responsible technologies and practices in into their operations. This presentation is appropriate for workers, supervisors, managers, directors and owners who want to reduce their organization's ecological footprint while increasing their environmental and social performance while increasing value and profit. People who are working with products and services in commercial or industrial settings will benefit from the tools acquired during this short overview. As a final topic of interest and likely to be the most important change of the 21st century, the green economy is discussed in a way that generalizes to everyday business operations.

Turning the Supply Chain Green

Bob Gorman, HK Systems, Inc.

This session will examine the much overlooked but traditionally un-green universe of the Supply Chain. Discussed will be strategies and tactics being employed today and those emerging in the fields of warehousing, distribution, transportation and packaging to reduce energy consumption and protect our environment. Included also will be a candid business discussion of the financial implications of green in the supply chain and the economic elements of making good sustainable decisions when moving or storing products and materials.

**See presenter
biographies
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Save Energy in Manufacturing Without Compromising Product Quality - A Case Study

Paul Schoessow, Hydro-Thermal Corp.

A steel mill entered into an Energy Savings Assessment (ESA-number withheld) with the U.S. Department of Energy to look for energy savings opportunities. The mill conducted pre-assessment measurements and collected data after changes were implemented to measure success. One major energy consumption production area was the continuous annealing line and the use of hot water. The old system included a steam sparging water heater and a large sparged hot water tank heated to 200°F. Water demand was 600 GPM per cleaning line, consuming about 19.4 Klbs steam/hr or about 23 MMBTU/hr at 180 psig of steam pressure for a needed discharge water temperature of 180°F. Direct Steam Injection systems were installed in-line to replace the spargers. Steam usage dropped to 7,900 PPH and saved 14 MMBTU/hour. Months later, readings confirm this savings equating to well over \$600K per year. As energy prices escalate, this number will increase.

Presenter Biographies:

Joe Jacobsen

Dr. Jacobsen is the Associate Dean – Environmental Studies and Director of Enrollment and Retention at Milwaukee Area Technical College. He is responsible for development of faculty, courses, programs in the domain of sustainability and the new emerging green economy. Before coming to MATC in 2007, he was the Operations Manager for DPW, City of Milwaukee where he was responsible for staff development, programs and budgets, green building initiatives, USGBC partnership, project management, technology implementation and integration of digital systems, site development for public demonstration and academic advantage of energy technologies, intergovernmental and private/public partnering, funding and economic outcome analysis and management of O&M staff and activities. Joe has taught at the 2 year, 4 year, Masters and Ph.D. levels in the US, Europe, Asia and South America. He is currently an adjunct professor in the decision sciences at Concordia University Wisconsin's Graduate School where he teaches decision sciences and managerial economics.

Bob Gorman

Bob Gorman has been with HK Systems for 5 years as a business development lead working with Fortune 500 companies in food, beverage, paper, publishing and other manufacturing industry sectors. Bob's responsibilities include qualifying opportunities where automated material handling and information systems can be applied to improve manufacturing and distribution efficiency. For the last 3 years, he has been involved in HK Systems' efforts to identify the economic value of energy efficiency gains in the supply chain from automating the warehouse.