



2009 WISCONSIN

## Renewable Energy Summit

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

## Business Green Technologies & Practices Session #2-2

**DATE:**

**WEDNESDAY, MARCH 25, 2009**

**Breakout Session 2-2:**

**Time:**

**3:45pm - 5:30pm**

**Presenters:**

**Energy Conservation Kaizen (ECK):  
A Required Standard for Lean Enterprise?**

Adil F. Dalal, Pinnacle Process Solutions

Energy Conservation' is not just a 'buzz word' but is critical to the growth of any organization – manufacturing or service based, traditional or 'green'. Energy costs are a significant part of the budget and controlling them has a direct impact on profitability of any organization.

How to achieve this? Since Lean is the world-renowned 'enemy of waste', it is an ideal tool to win the war against energy waste –electricity, steam, water and any other source. Energy Audits, Energy Conservation Kaizen (ECK) and Energy Utilization Boards (EUB) are great tools to identify, correct and track the energy utilization in any organization. The Energy Conservation Kaizen combined with Energy focused Safety program have been used very effectively in some organizations to help save millions of dollars annually which were literally being thrown away. Energy Utilization Boards have been utilized to track energy usage and even productivity of Departments, area Managers and Supervisors.

An organization is not considered Lean unless they are implementing at least 2 Energy Conservation Kaizen events annually and regularly auditing and tracking their energy utilization, plugging the leaks and optimizing energy cost savings. Thus, Energy Conservation Kaizen need to be standard for any Lean Enterprise.

**Products as Nutrients: Downcycling is no Longer Enough**

Marcia Clarke Yapi & Jacqueline Cook

Current manufacturing aims at universal design solutions—designing a product for the worse case scenario to ensure the largest market for a product— this existing manufacturing paradigm, leads to greater homogeneity. How can Lean manufacturing be re-designed into creating products of service that meet a diversity of needs and desires, including those of the manufacturer. How does this "cradle to cradle" system save billions in materials for manufacturers and benefit the environment? This session will demonstrate how sustainable manufacturing is a local and global event. We will examine several case studies and think about what Eco-effectiveness might mean for manufacturers who traditionally act as though commerce and the environment are at odds.

**See presenter  
biographies  
next page**

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# Business Technologies & Practices Session #2-1

### Presenter Biographies:

#### **The Convergence of Business and Conservation**

Dan Collins, Elutions Inc, Wisconsin League of Conservation Voters,  
Wisconsin Technology Council

Conservation in its purest form seeks “wise use of natural resources - however, some impacts on commerce occur as a result of its action. Business in its purest form seeks to “enhance share holder value” - however, some impacts on conservation occur as a result of its action. The convergence of the two disciplines is explored, resulting in many opportunities for both

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#### **Adil Dalal**

Adil Dalal is the founder & CEO of Pinnacle Process Solutions, International TM. He also serves as the Co-Chair, ASQ Lean Enterprise Division and Director, Programs and Community Outreach for PMI, Austin Chapter. Mr. Dalal’s passion is to help corporations, executives and employees identify and reach their highest potential. He is an internationally recognized subject matter expert in flow/lean manufacturing and has been a speaker at several industry group conferences.

He is a certified project management professional (PMP) and certified Quality Engineer (CQE). He has a M.S. degree in Engineering Management, a M.S. degree in Mechanical Engineering and a Bachelor’s degree in Automotive Engineering. I authorize WRES to place my biography

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#### **Dr. Marcia Clarke-Yapi**

Dr. Clarke-Yapi has taught at the college-level for more than 20 years. She has worked in Ivory Coast, West Africa; Barbados, West Indies and Britain. She studied the entrepreneurial behavior of institutions during Thatcherism and brings an international perspective to discussion on renewable energy and sustainable action. As a consultant she has trained all personnel within manufacturing in Lean concepts, conflict resolution, and team development.

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#### **Jacqueline Cook**

Jacqueline Cook-currently a business instructor for MATC was formerly a Human Resource professional at We Energies, a local utility company. As a result of over 26 years of employment with We Energies, she has gained extensive experience working with internal employees across levels, and external stakeholders. Working across levels, she provided understanding and exposure regarding internal organizational needs, cultural changes, managing transitions, and other critical variables from an HR perspective that clearly illustrates the significance of rethinking how we manage and operate organizations.

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#### **Dan Collins**

Dan Collins is a licensed Professional Engineer and technology business owner with an investment in protecting Wisconsin’s natural resources. Dan is Board President for the Wisconsin League of Conservation Voters, a board member of the Wisconsin Technology Council. Dan has given seminars and talks on topics of Real-time controls of Energy, Wide area control of Energy, Water Policy and Convergence of Technology and Business to both professional and civic groups.