Save Energy Now LEADER Web Conference Project Implementation Seminar Series

7 - Preparing for Project Implementation Motivating Employees to Implement Project

Fred Schoeneborn, CEM, CEA June 9, 2010









- Seminar Series Overview
- Recap Seminar # 6 "Resources"
- Motivating Employees to Implement Projects Fred Schoeneborn - ORNL team Steve Coppinger – CalPortland Company
- Questions/Future Seminars



Project Implementation Series

- 12 One-hour seminars assisting Save Energy Now LEADER Companies
- Conducted every second Wednesday of the month
- Focus on real world examples and solutions
- Practical tools made available
- Peer Save Energy Now LEADER participants



Providing Resources

- "Mine" Best Practices from other facilities
- Distribute a list of experts
- Encourage PR folks to publicize your efforts
- Have Procurement establish National Agreements
- Team with your Finance folks
- Assist others by "phone/email/assessment"
- Be recognized as the "Center of Expertise"
- Check Government and non-Government groups
- Review pilot project opportunities/funding



Sharing by Schneider Electric

Gain management support



- Sell your project using company "buttons"
- Evaluate your project honestly
- Appeal to your audience when selling
- Build a business case and use marketing folks
- Reduce energy vs. reduce headcount
- Plan for success using experts
- Support the budget and planning cycle
- Review energy performance regularly



Motivation per Napoleon Bonaparte

"With enough **Red Ribbons** I could conquer the world"





Save Energy Now LEADER Web Conference

Prepare for Recognition

- •Use give-aways that relate to energy
- Distribute shirts displaying Plant/Company/Save Energy Now Logo
- Formally recognize achievers at events
- Conduct contests
- Invite key performers to special events





Develop and display energy posters

Provide frequent updates

Send e-mails

 Post energy info on the company intranet

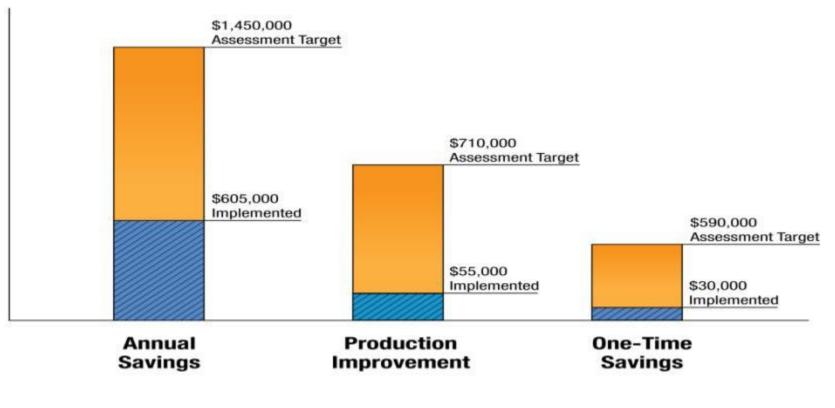
Utilize company newsletters





Project Implementation Thermometer Graph

ASSESSMENT IMPLEMENTATION RESULTS





Solicit Management Assistance

- Create a management involvement perspective
- Schedule periodic reviews of implementation
- Recognize good performers money works
- Keep your eye on the "implementation ball"
- Welcome good pressure



Conduct Events Periodically

- Celebrate "Earth Day" and "Energy Month"
- Participate in "Bring your kids to work" Day
- Organize "Energy Fairs"
- Consider "Energy Summits"
- Schedule training sessions





Power of Networking

- Establish an Energy Network
- Develop structure
- Provide support
- Facilitate "Best Practices"
- Offer resources





Champion of Implementation

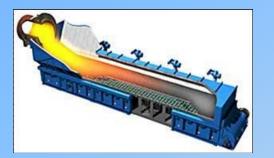
- Steve Coppinger
- Director, Energy Services
- CalPortland Company
- Focus is on Implementation



Motivating Employees to Implement Projects

Save Energy Now LEADER Web Conference June 9, 2010

Steve Coppinger, PE (Director, Energy Services) CalPortland Company





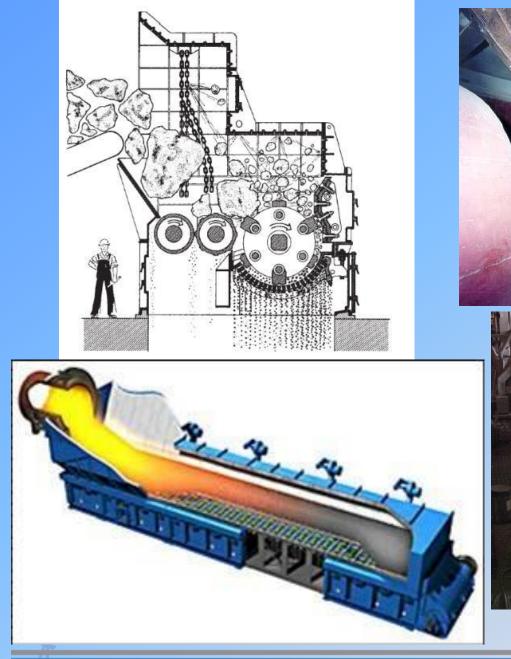




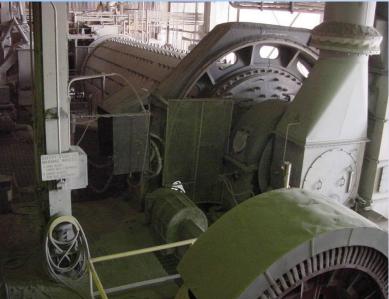
Company Background

- Founded in 1891 in California
- Producer of Cement, Concrete, Concrete Products, Aggregates and Asphalt
- 119 Facilities in Western U.S. & Canada from Alaska to Mexican border
- 2300 Employees
- \$60 \$90 Million Annual Energy Spend











Corporate Commitment

- Establish a core culture of energy efficiency (like safety)
- CEO Support
- Invite CEO to accept awards
- Clearly communicate program benefits to company
- Executive Involvement in program
- Energy Steering Committee
- Plant Manager Involvement & Support



Organization

- Corporate Energy Team
 - Meets every 2 months
 - Extensive video conferencing
 - CEO & other execs attend meetings
 - Share best practices
 - Review energy performance
- Energy Director & Full Time Energy Manager
- 16 Energy Managers (Large Plants & Divisions)
 - Responsible for energy performance
 - Facilitate energy projects
- Local Energy Teams
- Process Energy Team
- All employees at all levels



CEO Speaking at Energy Meeting



ENERGY MANAGEMENT

Employee Engagement

Awareness

- Treasure Hunts
- Newsletters, emails, intranet energy site, posters, signs
- T-shirts, caps, hard hat stickers, award logos on trucks
- Earth Week Celebration Green bag handouts
- "Bring Your Green to Work/Home" in paychecks
- CFL distribution to all employees
- "Idea of the Month" programs
- Training
 - Safety meetings, energy meetings, DOE, vendors
 - enManage Program survey & raffle
- Rewards & Recognition
 - Emails, newsletters, award ceremonies, employee bonus
 - Key performers invited to Award Ceremonies
 - Replicate trophies & re-award



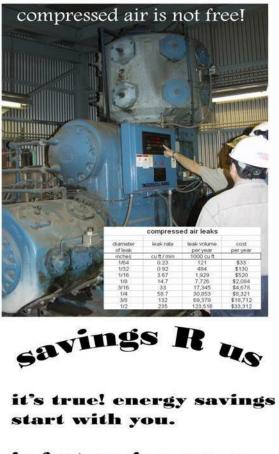
Treasure Hunt







ENERGY MANAGEMENT PROGRAM



in fact, saving energy depends on you.



Energy Award Ceremony





External Promotion – Community Open House





Arizona Founder's Day Booth







Annual Energy Summit – Customer Outreach

- All day energy training event
- Invited customers, utility reps, employees & executives
- Training & case study panel discussions by CalPortland employees





Energy Website

- Energy Performance
 - Dashboard Corporate energy usage
 - Plant energy performance
- Project Tracking
- Resources
 - Specifications, guidelines, energy meeting minutes
 - Training presentations
 - Event calendar
- Promotion
 - Press releases, photos, recognition of employees



Project Execution

- Identify opportunities through assessments & best practices
- Document opportunities on a project list
 - Assign person responsible
 - Assign completion date
 - Include costs, savings & incentives
- Provide engineering assistance to complete identified projects
- Use Work Order system to implement energy projects
- Capital Projects Apply for rebates
- Review project list status at energy meetings



Institutionalize Initiatives

- Purchasing & Inventory Practices
 - e.g. Purchase only NEMA MG1 premium efficiency motors
 - Life cycle analysis
 - Stock energy efficient equipment
- Equipment & Construction Specifications
 - e.g. Mechanical transport instead of pneumatic
- Capital project design review for efficiency
- Good maintenance practices
 - Corporate Reliability Engineer



Summary

- Solicit executive commitment and involvement
- Develop an extensive organization
- Create awareness at all company levels
- Reward and recognize employees
- Promote the program externally
- Instill a sense of pride to employees



QUESTIONS?



Steve Coppinger, P.E. (Director, Energy Services) scoppinger@calportland.com

Haria Car

Feedback

- Welcome comments regarding Seminar Series
- Seminars are your sessions
- Make seminars meaningful for you
- Feedback aids continuous improvement
- Send comments to Lindsay Bixby at: lbixby@bcs-hq.com



Next Seminar in the Series

- **July 14**, 2010
- 2:00 p.m. Eastern
- Having Plant Management announce "The Prize"
- Guest Speaker from Alcoa
- Please register



Your Implementation Case Studies

Let DOE help you CELEBRATE

Highlight Accomplishments in Implementation

Recognize your team's efforts



ENERGY Energy Efficiency & II

the Frenzy INDUSTRIAL TECHNOLOGIES PROGRAM

Flambeau River Papers Makes a Comeback With a Revised Energy Strategy

Burdenet by increasing operational costs, a outputy-old paper company in Whitemini dranges the way it used energy to turn around its business from a complete inbutdown in 2006 to thrwing paper production today.

The closure of the Flatslewst River Papers ts 2006 was not supprising. The mill's enormour dependence on fiberil fiel and its use of antiquated machinery had empled the company in the face of rising energy costs. A first approach to energy management implemented by its new owners, however, charged the course for the company. The company has seen an increase in paper production by 11.9%. size 2006, benefiting from an initial Energy Savings Annanement* conducted in 2007 and adorequent changes at the mill. Steps such as fael switch and energy efficiency inspectements in plant's strain. systems, conditied with a granmolic approach that sellies on its employees for recommendations, have all made it happen für Flambeut River Papem."

Flambeau Diver Depens has had a huge impact not only on Park Falls but in Northern Wilconsin-Derthips even throughout the online United States: What the compare has accomplished regarding energy afficiency in such a short time is nothing short of anazity. The company has set an asaciple for other companies Its issher to their exploreet because the entitlegees helped tum the mill around: Flambeau River Papers is the mainstay for the true: Renk Fails Havor Thomas Retzlaff



The Company

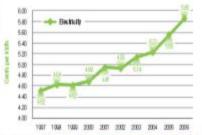
Flashess River Papers has been a major force of recommy for the city of Park Pala, a multiture is notifient. Watcomin with a population of renginal 2,202° Orginally poperdi in 1066, the null hardware control for largest engipters of Thisse County in Watcomin, producing a variety of paper products, such as printing, cover shock, log, myly could, index, freedowt, envirope, and have board paper. Park Palls was then let hard when Flandware Parve lask in also down in millin 2006 then to me condutant energy courts and antiparable machinery. The mill's closure lask fland best approximately 13.2% of the city's residentit memory.

Faceboar Rowe, however, necessed a first hour of Eds order a new consenting hiele by Both Abatan. All its previous employees even offend their plot back of the case value and benefits provide to the mall's closely, as effor which we are regired by approximately \$2.0% of them.¹ The respecting of the mall had also provided a usage experimentary to avail a state of the second share also fits which used to be in place in order for the company's business model and identify what needed to be in place in order for the company's form.

The Mill's Energy Challenges

Polp and paper mills have traditionally been large constructors of energy in the United States and thus bound to be hitley the ming energy costs if their processes are not exilizing modern standards of efficiency and are been by dependent on free if facin.

Exhibit 1: Average Industrial Electricity Price in Wisconsin



Source Every Internation Administration (May / www.sautouron) and itself (Ault and Reduct (Net)

*The UIL Department of Energy 5 Instantial Sectorologies Region offers Energy Environ. Accessments to help instance.com 28 Million with cert processes and way plants on concurrencess; store effectively To learn today with UILS and Accessing on Million Centering and an and Accessing.

model and 1



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