Engaging Sites with Performance Data

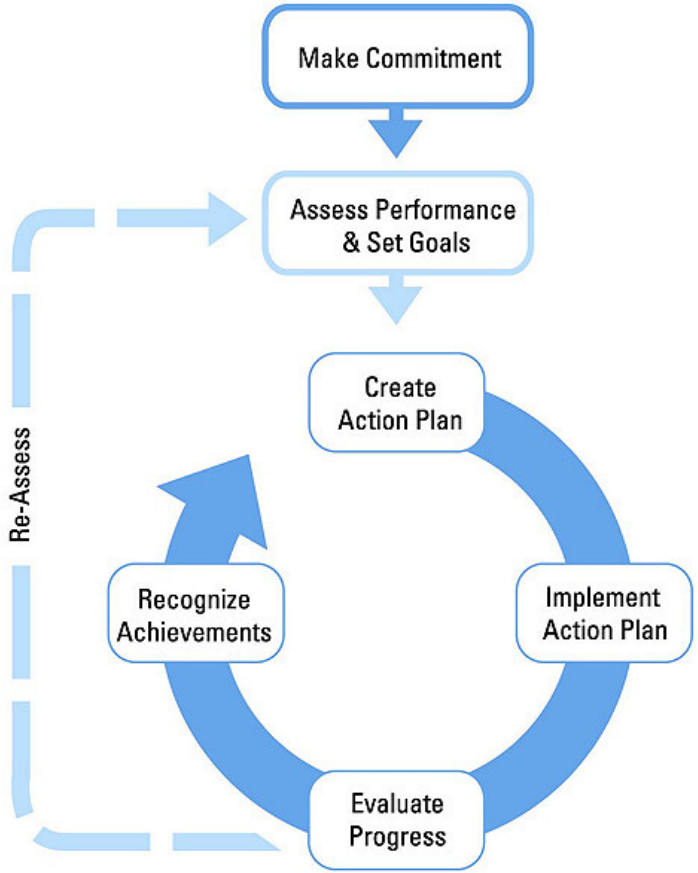
Monthly Partner Web Conference
July 22, 2009

Call-in number: 866 299 3188
Conference Code 202 343 9965#

Learn more at **energystar.gov**

About The Web Conferences

- Monthly
- Topics are structured on a strategic approach to energy management
- Help you continually improve energy performance
- Opportunity to share ideas with others
- Slides are a starting point for discussion
- Open & interactive



Web Conference Tips

- Mute – To improve sound quality, all phones will be muted.
- Use # 6 to un-mute and * 6 – to mute
- Presentation slides will be sent by email to all participants following the web conference.

Today's Web Conference

Energy management is a data driven process:

- Measuring, tracking, and benchmarking energy performance are fundamental.

- How do you ensure that data gets used?
- What are the most effective ways to communicate performance?
- How can performance data be used to encourage greater action at sites?

Today's Speakers

Engaging Employees with Performance Data:

- Christopher Morgan - JC Penney Co. Inc.
- Steve Schultz - 3M
- Announcements

ENERGY STAR AWARD 2009
PARTNER OF THE YEAR

ENERGY STAR Partner Web Conference
July 22, 2009

JCPenney Energy Center

"The One Stop Shop for Associate Energy Awareness, Engagement, & Conservation"

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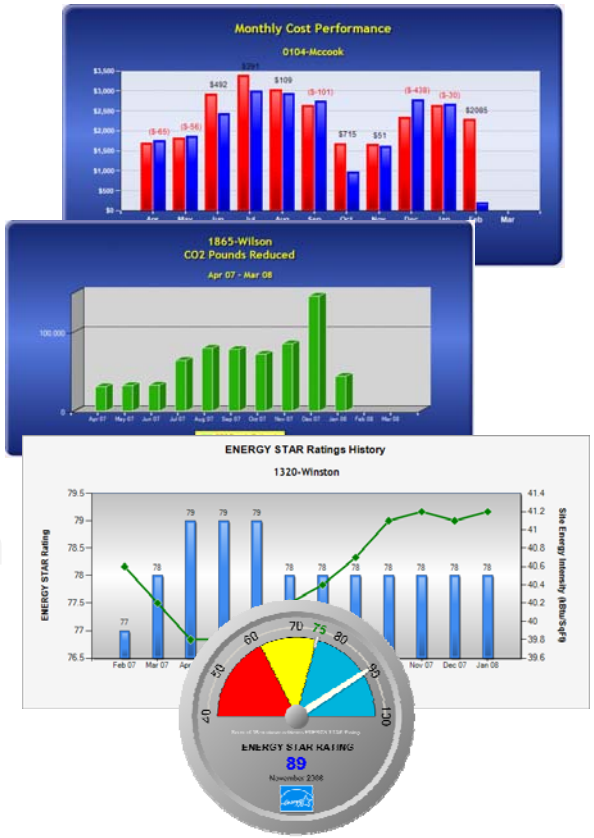
JCPenney
Every Day Matters
jcp.com

JCPenney Energy Program

- **Energy Management:** Implement energy conservation projects and engage our 150,000 associates to seek out innovative ways to save energy

- **Engaging Associates**: To help associates take a more active role in saving energy, an Energy Captain is designated at each store to be responsible for promoting awareness of energy conservation opportunities in the workplace, as well as those that associates can do at home



EMPOWERED
ENERGY MATTERS

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JCPenney Energy Program

- **Net-Zero:** One of 21 companies selected to participate in the DOE Net-Zero Energy Commercial Building Initiative

- **LEED:** Fairview, Texas is the first store expected to obtain LEED (Leadership in Energy and Environmental Design) certification

- **Renewable Energy Projects:** Installed more than 3.6 megawatts of solar power on nine stores in NJ and CA and currently finalizing the construction of 3-10 Kilowatt wind turbines for the Reno Distribution Facility.

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JCPenney ENERGY STAR

- Partner of the Year 2007, 2008
- Sustained Excellence 2009
- 60+ stores certified
- Home Office in Plano, Texas, ENERGY STAR Label
- Goal to achieve ENERGY STAR certification of at least 200 stores by 2011
- The first national retailer to receive Designed to Earn the ENERGY STAR certification for two of its stores in 2008

Bring Your GREEN TO WORK with ENERGY STAR

The TOOLS of the

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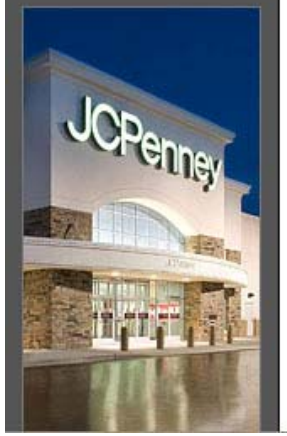
EnergyCenter

Home | Login | Energy 101 | EMS | News | ENERGY STAR Reports | Projects | History | Contact Us | FAQ | EMPOWERED

- From Michael Taxter
- National Leader
- Social Responsibility
- Energy Team
- Energy Team Org Chart
- ENERGY STAR: "You Can Make a Difference"
- Energy Links
- EPA CFL Fact Sheet



JCPenney's Energy Center

the RETAIL ENERGY DILEMMA

Retailing is a tough business. In order to compete, retailers use vast amounts of energy to create inviting spaces for their customers. Eye-catching signage and merchandise displays, plus heating and cooling needs, all contribute to high energy costs in retail buildings. Lighting is the biggest energy expense for retailers-37% of total energy use. And it's not an area where retailers can scrimp—attractively lit displays promote sales.

the SOLUTION

Energy improvements can not only lower utility bills but also foster a more comfortable retail space, with better lighting, temperature control, and indoor air quality. That means employee morale and retention improve, and customers are more likely to return often.

QUICK LINKS

- EMPowered 2009
- Energy Center Data Graphs
- JCPenney Co.
- ENERGY STAR

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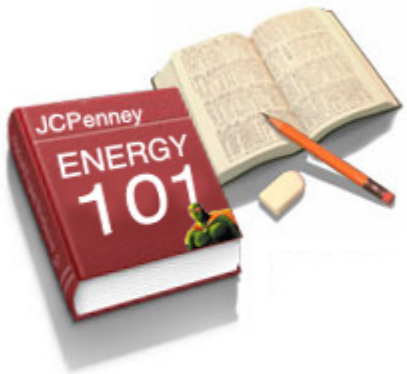
Energy Glossary

ENERGY

Energy is the ability to do work. It comes in different forms -- heat (thermal), light (radiant), mechanical, electrical, chemical, and nuclear energy.



TYPES OF ENERGY

Renewable energy sources include solar energy, which comes from the sun and can be turned into electricity and heat. Wind, geothermal energy from inside the earth, biomass from plants, and hydropower and ocean energy from water are also renewable energy sources. However, we get most of our energy from **nonrenewable energy** sources, which include the fossil fuels -- oil, natural gas, and coal. They're called fossil fuels because they were formed over millions and millions of years by the action of heat from the Earth's core and pressure from rock and soil on the remains (or "fossils") of dead plants and animals. Another nonrenewable energy source is the element uranium, whose atoms we split (through a process called nuclear fission).

- A little schooling never hurt anyone. Energy 101 talks energy basics

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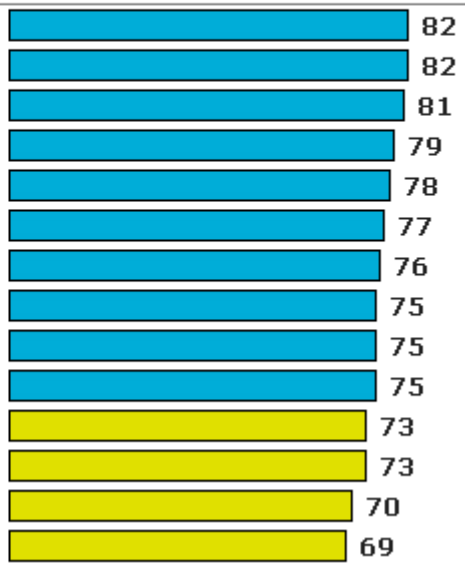
ENERGY STAR Ranking Data for Region 5 (April 2009)

District	# of Stores	Rank	Average Energy Star Rating
8515	18	#1	82
8513	13	#2	82
8509	14	#3	81
8512	13	#4	79
8511	18	#5	78
8510	13	#6	77
8408	12	#7	76
8514	17	#8	75
8507	14	#9	75
8505	14	#10	75
8508	18	#11	73
8506	16	#12	73
8504	16	#13	70
8421	16	#14	69



- Corporate energy reporting promotes healthy competition on all company levels

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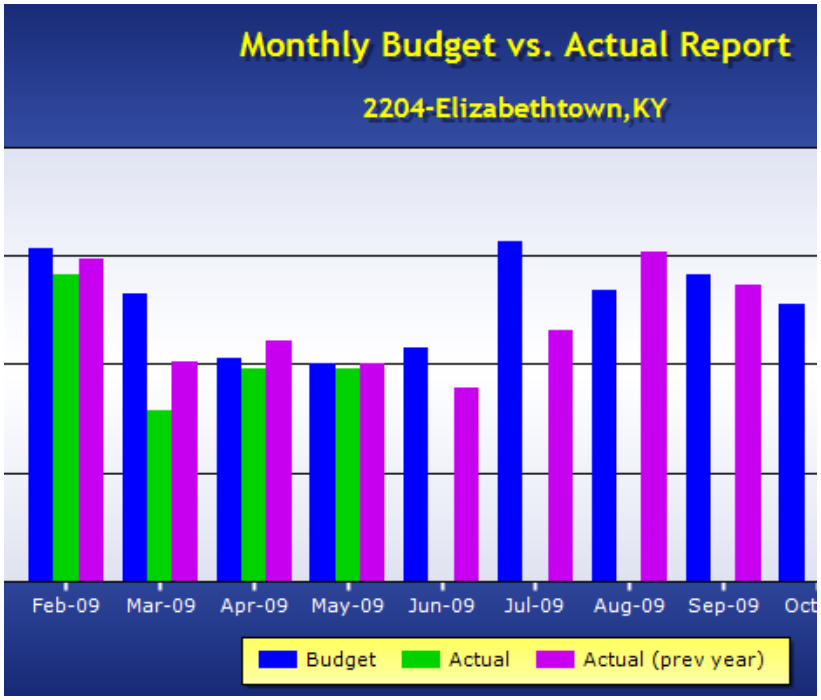

- Store managers can monitor their energy usage based on allocated utility budget. Energy Savings = Increased Profit Margin

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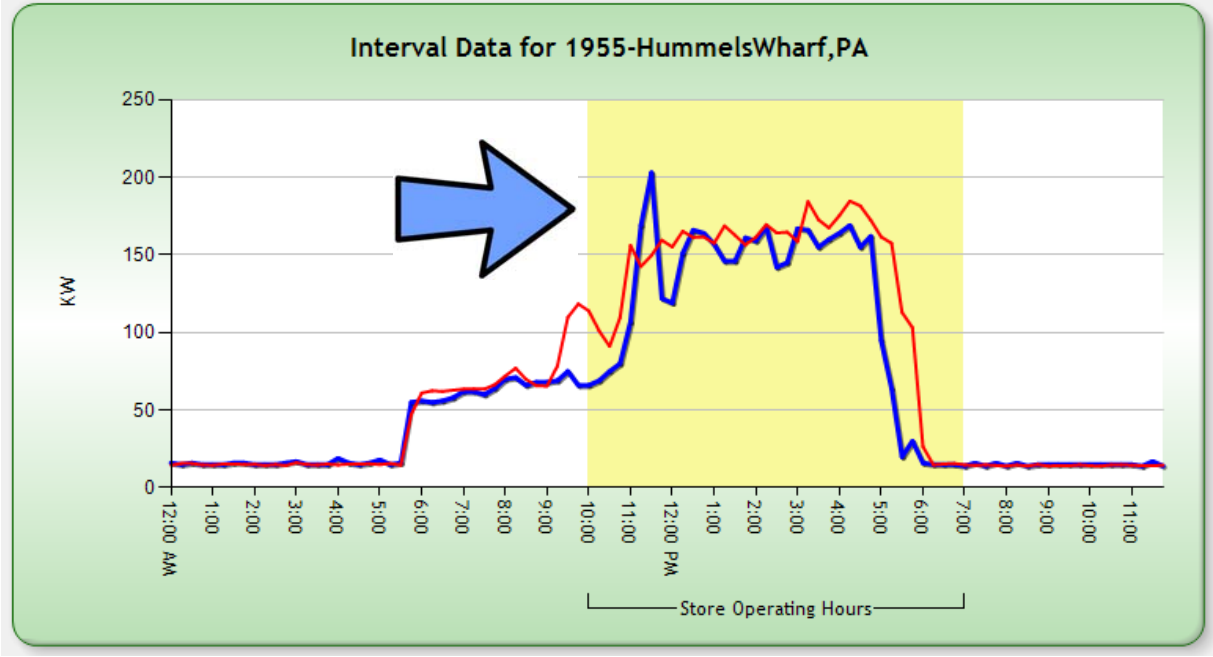

- IDR data gives the ability to spot abnormalities in energy usage and address quickly
- Monitor to create the "ideal" energy trend for the store

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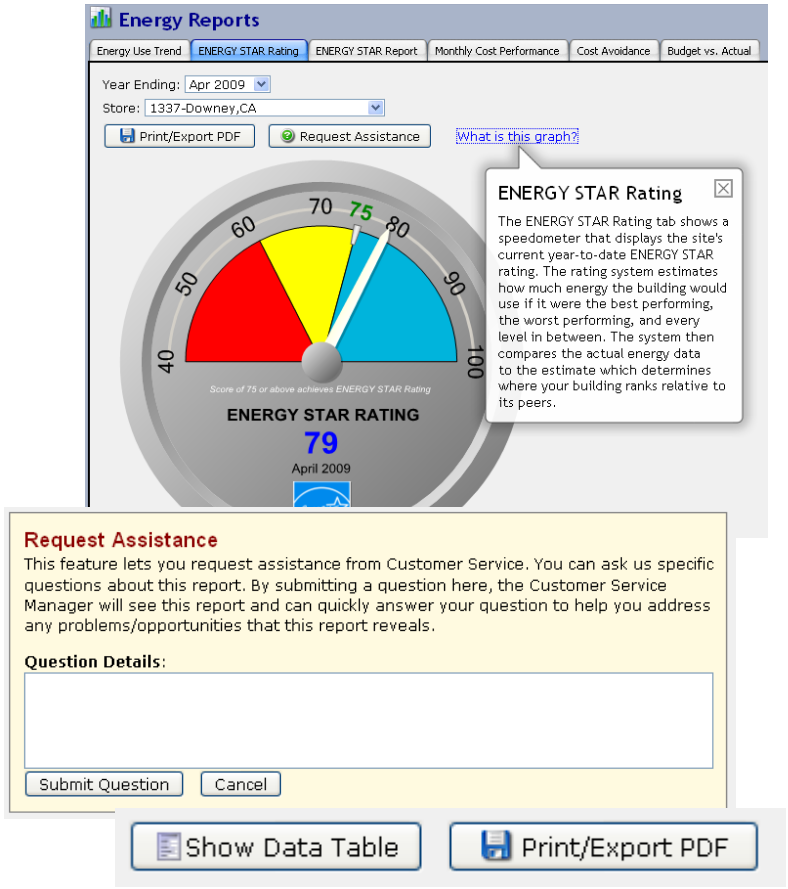
- Graph explanations, printing abilities, and request assistance features makes understanding energy management at the store level easier



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The Results

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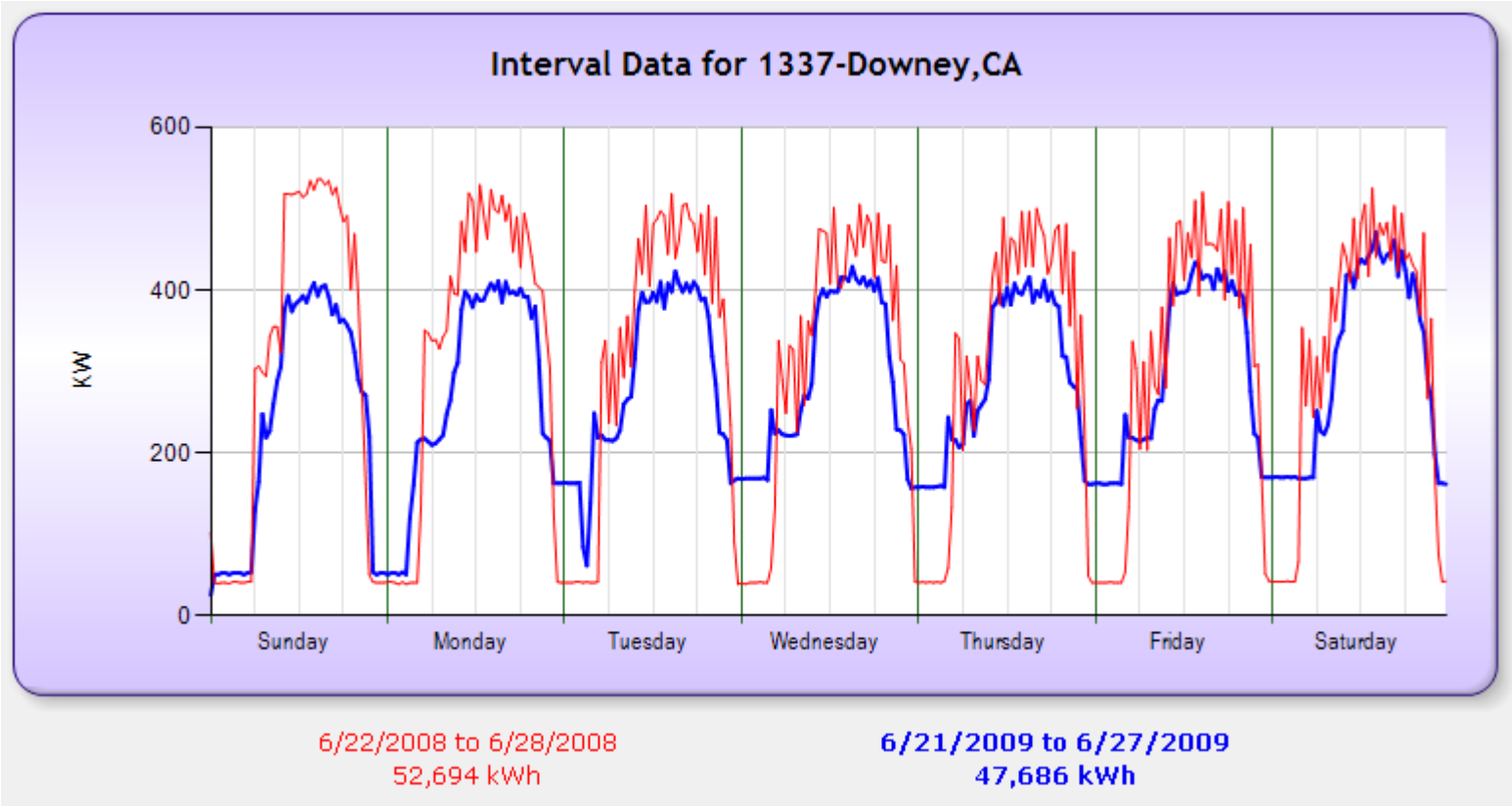

10% Reduction for one week!!

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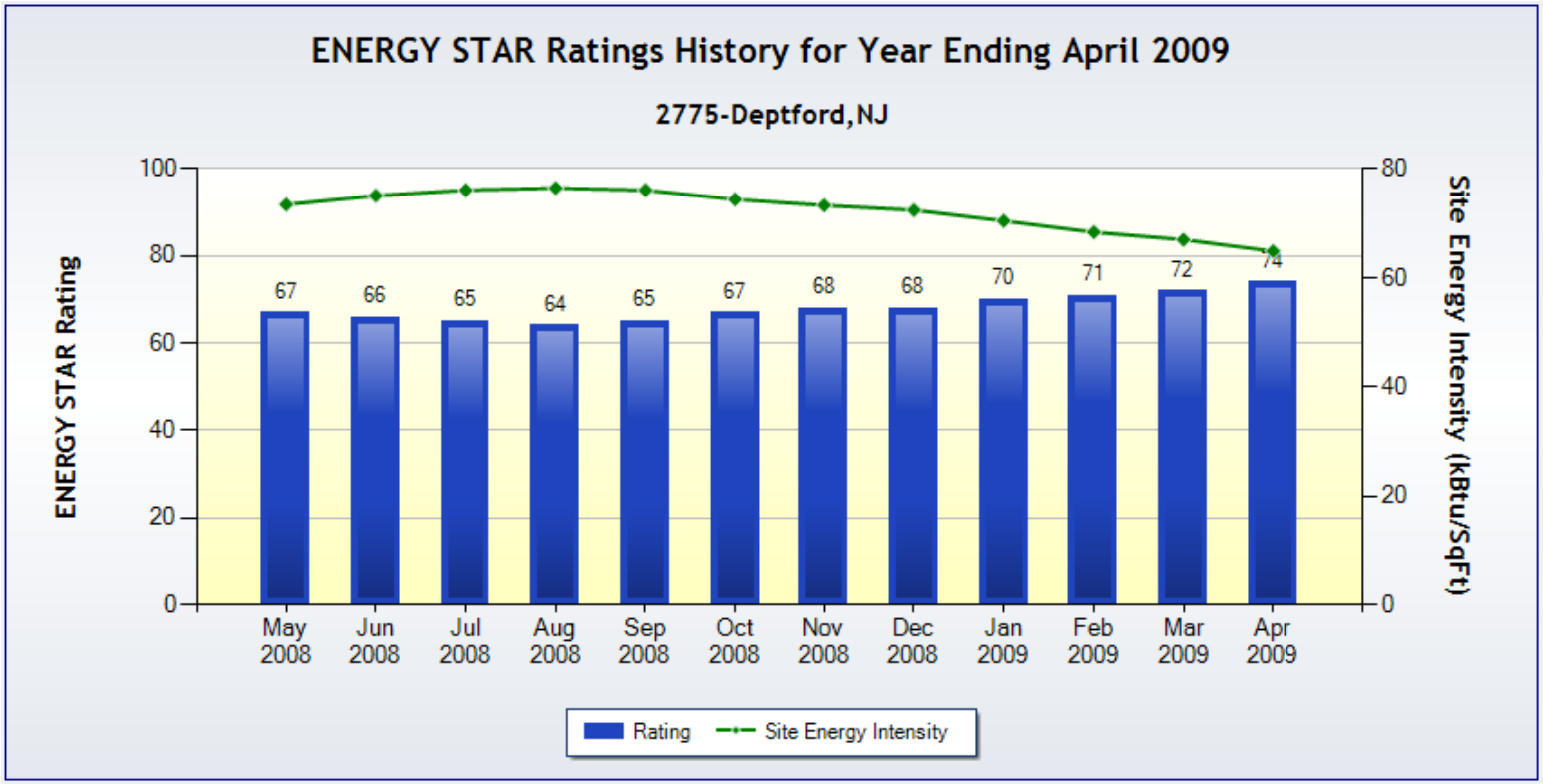

Raised ENERGY STAR Score by 6 points

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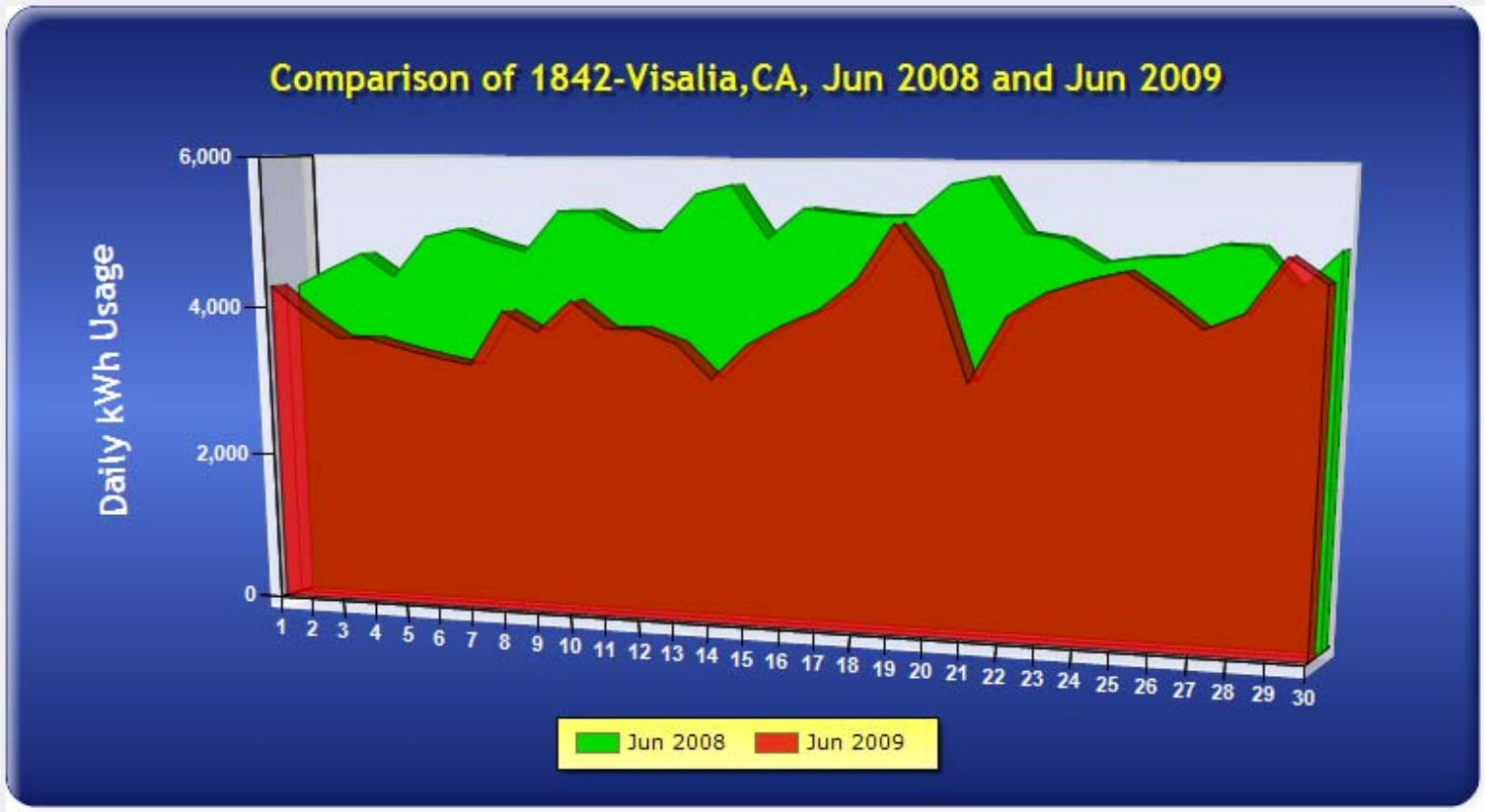

JUNE 2008
151,831 kWh

JUNE 2009
122,014 kWh

20% Reduction for one month!!

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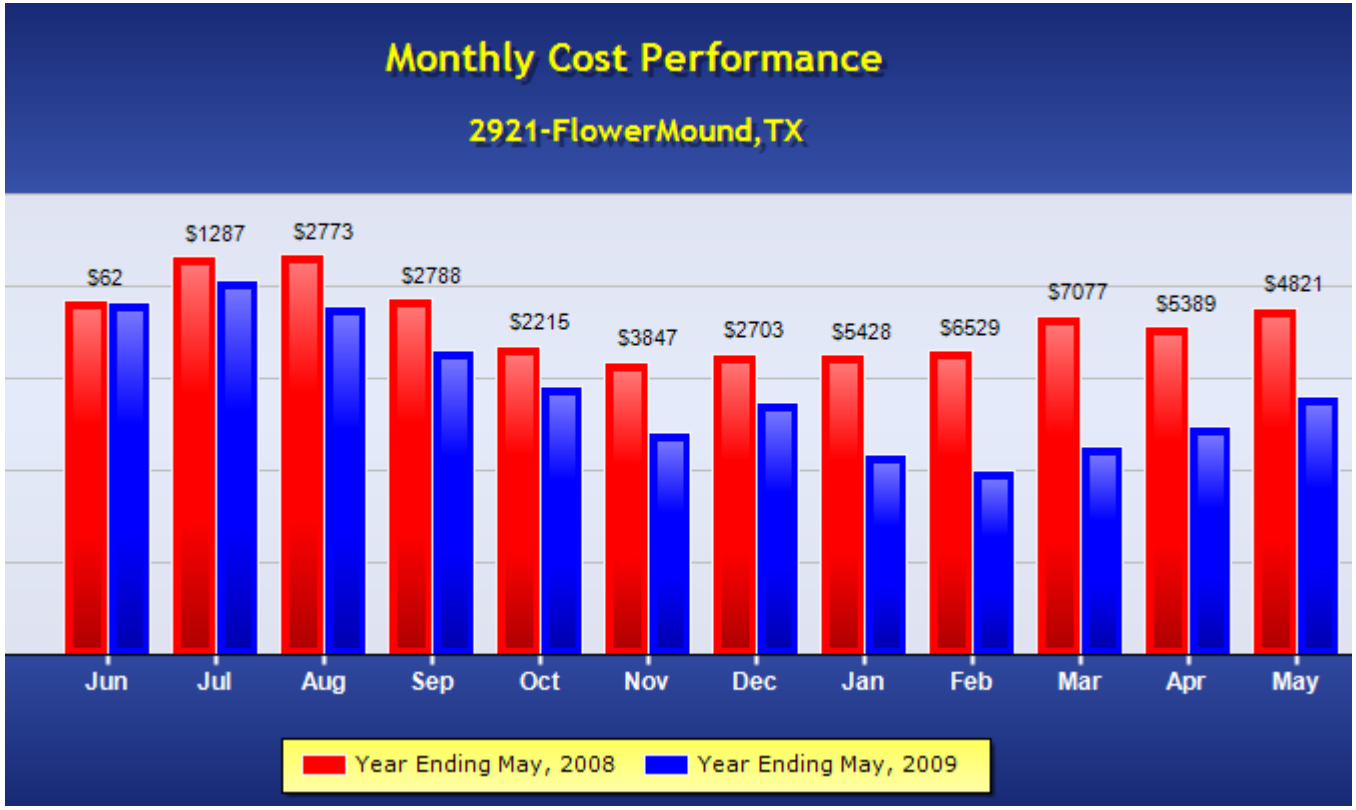

The numbers speak for themselves

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The Future of Energy Center

- Expand the number of stores that have with IDR data
- GHG Equivalency Module
- Renewable Energy Graphs for certain stores
- Utility Bill Images
- Success Stories Module
- Store Scheduler Module

Takeaways

- IDR meters give you the ability to catch problems before they get out of hand
- Store Managers are not engineers. Create a module that's quick and "speaks their language" → Finance
- Use the data to promote friendly competition to drive savings on a company level
- Highlight those stores that go above and beyond

ENERGY STAR® July 22, 2009 Web Conference

Engaging Sites with Performance Data

A 3M Competitive Advantage

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Topics to be Discussed

- 3M, Sustainability at 3M
- Global Energy Program - Objectives, Strategy, Key Components
- Energy Dashboards – Accountability and Recognition

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Six Market-Leading Businesses

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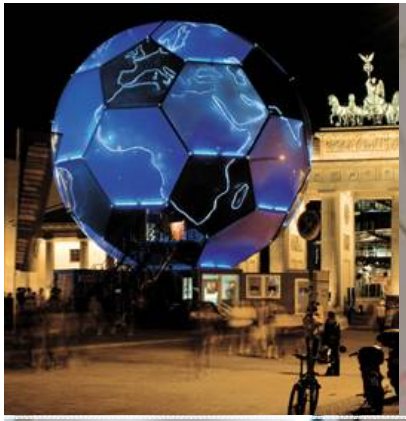
Command
3M
Post-it
picture paper
New
print, peel, and stick

S. LAB



Annual Business Compa
2006

3M Renewable Energy Division

The Power of 3M

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Solving Problems Everywhere

- Operate companies in more than 60 countries
  - *35 international companies with manufacturing operations, 34 with laboratories*
  - *In the United States, operations in 29 states*
- R&D and related expenditures total $6.711 billion for the last five years
- More than 79,000 employees worldwide
- We provide ‘borderless customer success’

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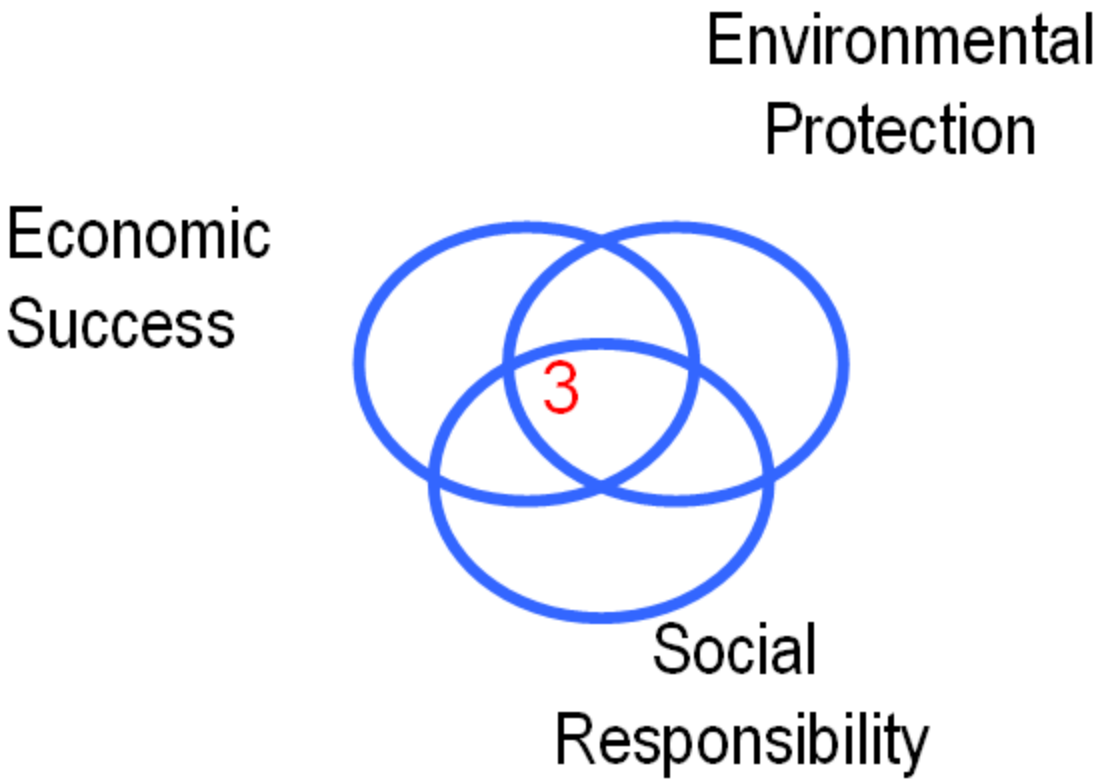
Together in Growth
Sustaining our Future

What is “Sustainability”?



“Meeting the Needs of Society Today, While Respecting the Ability of Future Generations to Meet Their Needs”

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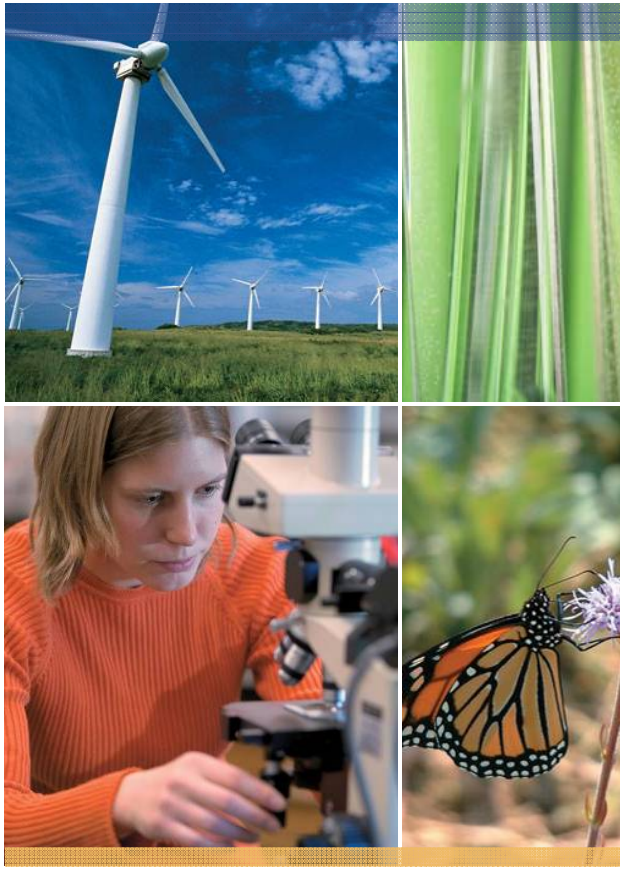
Environmental Results Worldwide

Our progress toward sustainability

- Prevented the generation of 2.7 billion pounds of pollutants since 1975 with more than 6,800 3P projects.
- Cut volatile organic air emissions 95%.
- In 2009 again, received the ENERGY STAR® Sustained Excellence Award for Energy Management.
- 3M reduced absolute greenhouse gas emissions by 54% from 1990-2006.



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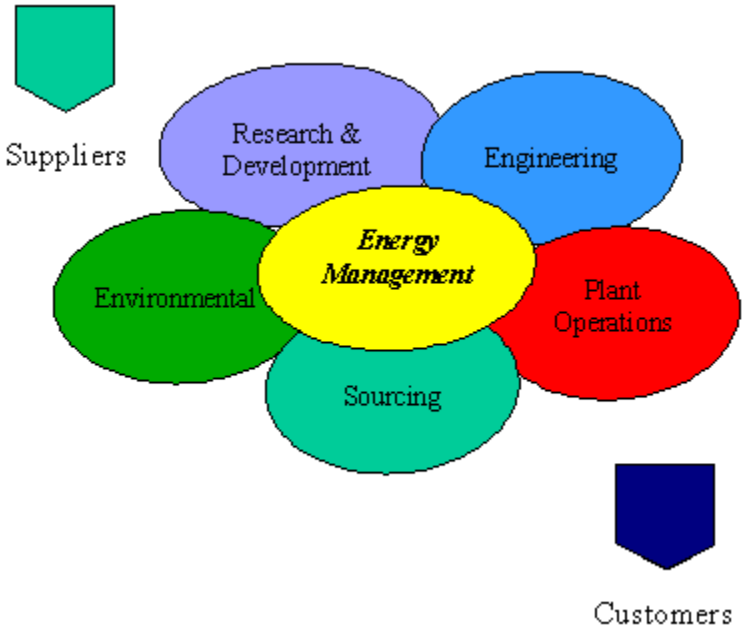
Corporate Energy Management

Provide Global Leadership to

- Control Energy Costs
- Improve Operational Efficiency
- Reduce Environmental Impacts
- Ensure Reliable Supplies of Energy Are Available for 3M Operations



Making Energy Efficiency a Competitive Advantage

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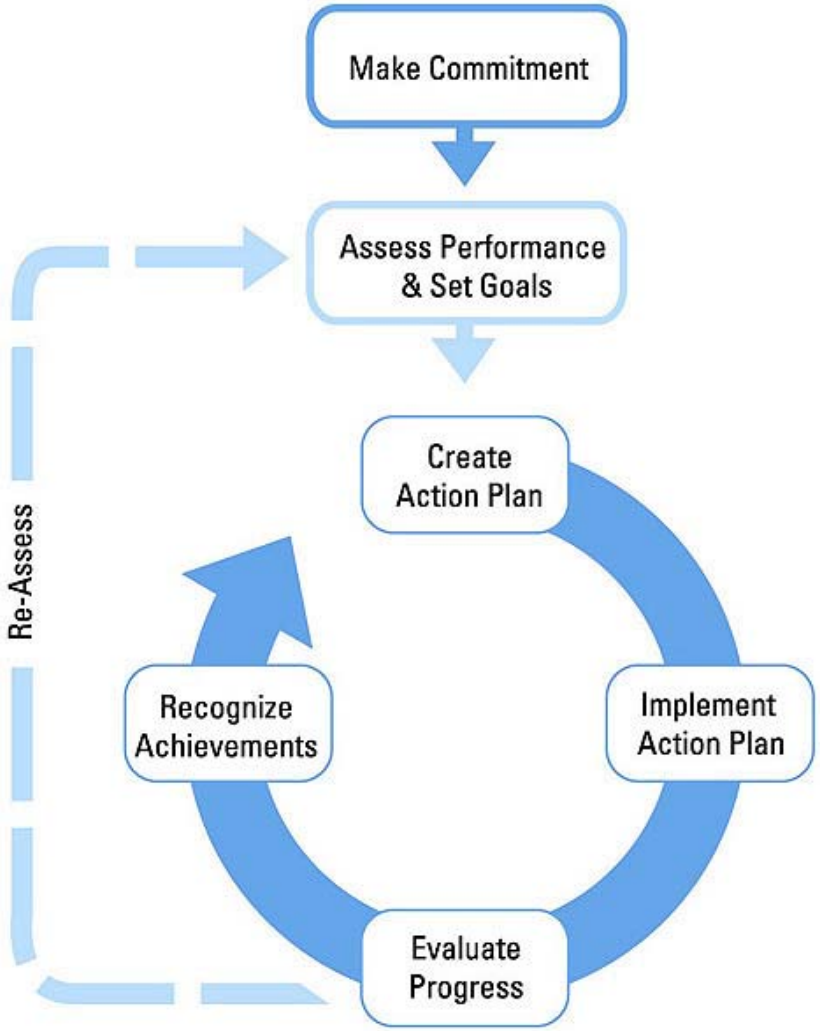
ENERGY STAR®: Guidelines for Energy Management

- Management System for Energy
- 3M is using this approach recommended by ENERGY STAR



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Energy Management Structure

- Energy use and costs tracked at over 200 locations world-wide
- Energy teams at each of 56 larger locations
- Each measured on Efficiency, Team, and Projects
- Management supports teams through annual plans
- Corporate Energy Management provides resources including quarterly progress reports
  - *Guidelines for energy teams*
  - *Best Practice sharing*
  - *Monthly web conferences*
  - *Access to experts*
  - *Assessments*
  - *Awards and Recognition*

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Corporate Energy Reduction Goals

- 4% Reduction in Energy Use Per Pound of Product Produced (or Square Foot of Space If a Non Production Facility)

- Implement Projects Representing Savings of 4% of 2008 Energy Spend
- Score 85% or Greater on Plant Energy Program Effectiveness Rating

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Track Progress

- Site Energy Data System
  - *Tracks energy use and cost information for each 3M site world-wide*
  - *Production inputs from corporate Environmental Targets database*
- Energy Cost Reduction Projects database
  - *Tracks energy projects being implemented at each 3M location*
- Plant Energy Program Effectiveness Rating
  - *Standardized methodology to measure team effectiveness*

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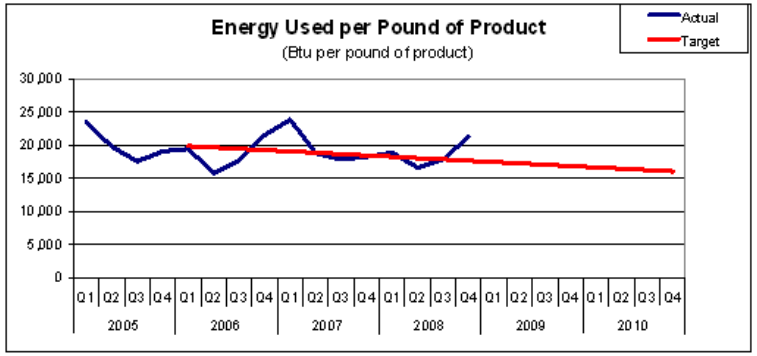
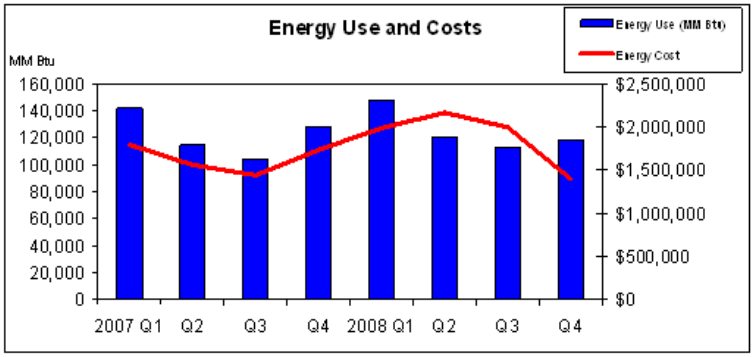
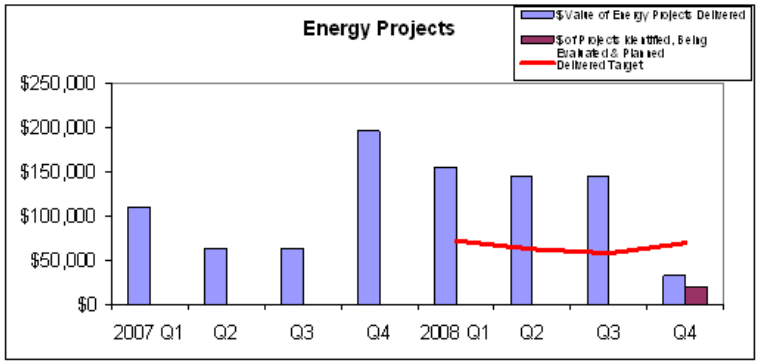
July 20, 2009

3M Plant Dashboard

	2007 Q1	Q2	Q3	Q4	2007 Total	2008 Goal	2008 Q1	Q2	Q3	Q4	Total 2008
Energy Trend											
Btu/Pound of Product	23,843	18,761	17,845	18,255	**19,617**	**18,833**	18,838	16,593	17,859	21,271	**18,510**
Change [1]						**-4%**	-20.99%	-11.56%	0.08%	16.52%	**-5.64%**
Energy Use (MM Btu)	141,960	114,554	104,194	128,370	**489,079**	**469,515**	147,804	120,083	112,512	118,650	**499,049**
Change							4.12%	4.83%	7.98%	-7.57%	**2.04%**
Energy Cost	$1,792,949	$1,559,032	$1,441,025	$1,732,413	**$6,525,420**	**$6,264,403**	$1,985,083	$2,164,435	$1,996,674	$1,397,109	**$7,543,300**
Change							10.72%	38.83%	38.56%	-19.35%	**15.60%**
Energy Cost per MM Btu	$12.63	$13.61	$13.83	$13.50	**$13.34**		$13.43	$18.02	$17.75	$11.78	**$15.12**
World Class Rating											
Plant Energy Program Effectiveness Rating [2]	90%	90%	90%	90%	**90%**	**85%**	87%	87%	92%	92%	**92%**
Projects											
$ Value of Energy Projects Delivered	$109,772	$63,126	$63,126	$195,181	**$431,204**	**$261,017**	$155,142	$144,899	$144,899	$32,770	**$477,710**
$ Value of Energy Projects Delivered as a % of Plant Energy Spend [3]	6.1%	4.0%	4.4%	11.3%	6.6%	**4%**	7.8%	6.7%	7.3%	2.3%	**7.3%**
$ of Projects Identified, Being Evaluated & Planned	NA	NA	NA	NA	**NA**		$0	$0	$0	$20,369	**$20,369**







Other Critical Metrics

2008 Energy Costs as a Percent of Total Plant Operating Costs	TBD

Potential Savings From Energy Projects Not Yet Completed	$816,464
Percent Energy Projects Completed	69.26%

Dashboard Color Signals

[1] Green (-4% or more), Yellow (-3.9% - -2%), Red (-1.9% or less)
[2] Green (85% or more), Yellow (70% - 84%), Red (69% or less)
[3] Green (4% or more), Yellow (3.9% - 2%), Red (1.9% or less)

Data From Site Energy Data System

Year	Quarter	Energy Usage BTU Per Pound of Product	Energy Usage MMBTU	Pounds of Product (1,000s)	Purchased Cost Total in USD	$ per MM Btu
2005	Q1	23,534	165,564	7,035	$1,872,172.02	$11.31
	Q2	19,748	121,668	6,161	$1,610,168.95	$13.23
	Q3	17,548	110,218	6,281	$1,926,246.15	$17.48
	Q4	19,047	132,054	6,933	$2,503,675.19	$18.96
2006	Q1	19,425	136,868	7,046	$2,104,242.71	$15.37
	Q2	15,773	119,165	7,555	$1,665,753.38	$13.98
	Q3	17,740	116,147	6,547	$1,706,872.84	$14.70
	Q4	21,529	135,395	6,289	$1,682,793.94	$12.43
2007	Q1	23,843	141,960	5,954	$1,792,949.05	$12.63
	Q2	18,761	114,554	6,106	$1,559,032.11	$13.61
	Q3	17,845	104,194	5,839	$1,441,025.24	$13.83
	Q4	18,255	128,370	7,032	$1,732,413.20	$13.50
2008	Q1	18,838	147,804	7,846	$1,985,082.53	$13.43
	Q2	16,593	120,083	7,237	$2,164,434.81	$18.02
	Q3	17,859	112,512	6,300	$1,996,673.81	$17.75
	Q4	21,271	118,650	5,578	$1,397,108.51	$11.78
2009	Q1					
	Q2					
	Q3					
	Q4					
2010	Q1					
	Q2					
	Q3					
	Q4					
YTD 2007		19617.29	489,078.62	24,931.00	$6,525,419.60	$13.34
YTD 2008		18510.05	499,049.47	26,961.00	$7,543,299.66	$15.12
		-1107.24	9,970.85	2,030.00	$1,017,880.06	$1.77
		-5.64%	2.04%	8.14%	15.60%	13.29%
4Q 2007		18255.15	128,370.25	7,032.00	$1,732,413.20	$12.43
4Q 2008		21270.99	118,649.56	5,578.00	$1,397,108.51	$13.50
		3015.83	-9,720.69	-1,454.00	-$335,304.69	$1.07
		16.52%	-7.57%	-20.68%	-19.35%	8.58%

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July 20, 2009

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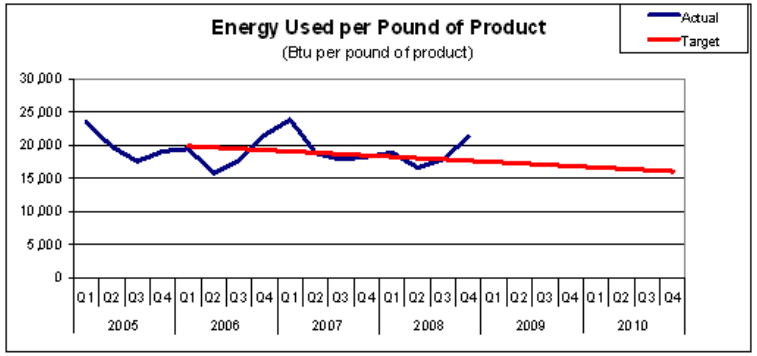
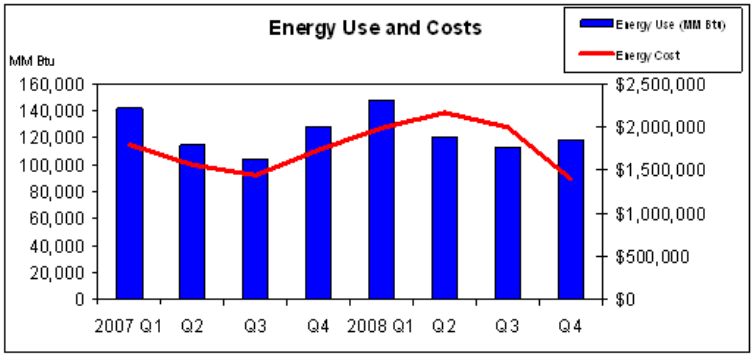
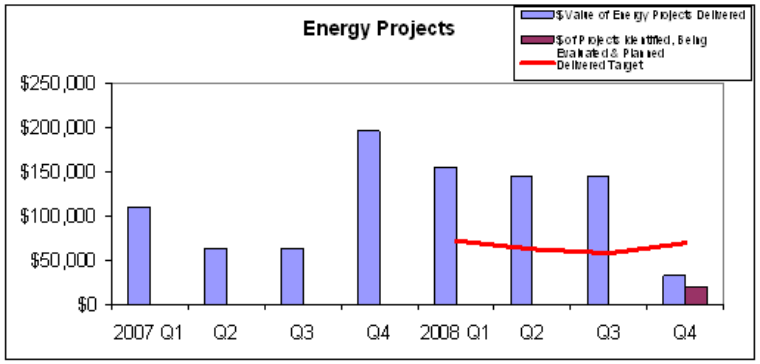
$ Value of Energy Projects Delivered as a % of Plant Energy Spend [3]	6.1%	4.0%	4.4%	11.3%	6.6%	**4%**	7.8%	6.7%	7.3%	2.3%	**7.3%**
$ of Projects Identified, Being Evaluated & Planned	NA	NA	NA	NA	**NA**		$0	$0	$0	$20,369	**$20,369**







Other Critical Metrics

2008 Energy Costs as a Percent of Total Plant Operating Costs	TBD

Potential Savings From Energy Projects Not Yet Completed	$816,464
Percent Energy Projects Completed	69.26%

Dashboard Color Signals

[1] Green (-4% or more), Yellow (-3.9% - -2%), Red (-1.9% or less)
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3M Plant Energy Program Effectiveness Rating

3M Facility Energy Management Assessment For 2009

3M Location:	Enter the name of the facility being assessed here
Team Members:	Enter the names of the facility energy team members here

Scoring Guideline Score your site energy program on these criteria using a 0 to 5 scale, where 0 = no level of implementation, 3 = some level of implementation, and 5 = all aspects fully implemented. Enter your score in the cells shaded grey.				**Improvement Plan For 2009**
Commitment to Continuous Improvement				
A. Senior management actively supports the energy program and promotes energy efficiency in all aspects of site operations. A score between 0 and 5 is allowed. 0	B. Site energy goals and objectives have been established and communicated. A score between 0 and 5 is allowed. 0	C. Plant Energy Team is in place and functioning. The team has active representation from Plant Engineering, Resident Engineering and Production. The team meets monthly. A score between 0 and 5 is allowed. 0		
D. The Energy Champion is recognized and empowered having site manager and senior management support. Champion has energy as an expectation on their EC&DP. A score between 0 and 5 is allowed. 0			Your Level of Implementation In This Category 0%	
Assess Performance and Opportunities				
A. Metering is in place to track energy use for each major energy using operation within the plant. Energy costs are recharged to the departments in the plant according to their actual usage A score between 0 and 5 is allowed. 0	B. The highest energy using equipment has been identified. The operating efficiency of the highest energy using equipment has been determined. Methods of maintaining the efficiency of this equipment have been put into place. A score between 0 and 5 is allowed. 0	C. Complete walk-through audit of the entire facility has been performed within the last twelve months. A score between 0 and 5 is allowed. 0		
D. Energy opportunity assessments by internal or external professionals have been conducted within the last 5 years A score between 0 and 5 is allowed. 0	E. Manufacturing processes have been reviewed. Ideas for improved process energy utilization have been identified A score between 0 and 5 is allowed. 0	F. Local utilities and agencies have been consulted to help identify energy cost saving ideas and to determine whether rebates and incentives are available for energy projects. A score between 0 and 5 is allowed. 0	Your Level of Implementation In This Category 0%	

3M Plant Energy Program Effectiveness Rating

Scoring Guideline Score your site energy program on these criteria using a 0 to 5 scale, where 0 = no level of implementation, 3 = some level of implementation, and 5 = all aspects fully implemented. Enter your score in the cells shaded grey.				Improvement Plan For 2009
Implement Action Plan				
A. Opportunities have been identified and prioritized. Low/no cost projects have been implemented. Projects have been entered into the ECRP database. A score between 0 and 5 is allowed. 0	B. A list of the highest priority projects is reviewed with management regularly. Proposals to fund all feasible projects have been submitted to management. Implementation of funded projects has begun. A score between 0 and 5 is allowed. 0	C. Division/Resident Engineering is supplying support as required to investigate and implement potential projects. A score between 0 and 5 is allowed. 0		
D. Energy opportunities are identified and implemented when new engineering projects are done. A score between 0 and 5 is allowed. 0	E. Plans are in place to replace equipment with higher efficiency equipment when replacement or renewal becomes necessary. A score between 0 and 5 is allowed. 0		Your Level of Implementation In This Category 0%	
Evaluate Progress and Recognize Achievements				
A. Results have been measured and communicated identifying the impact of the program in the plant. Reports showing energy use per unit of output are developed and published for each major production area. A score between 0 and 5 is allowed. 0	B. Recognition has been provided to those who participate in the program. A score between 0 and 5 is allowed. 0	C. All employees are aware of the team and it's purpose. Energy information is communicated to the plant regularly. A score between 0 and 5 is allowed. 0	Your Level of Implementation In This Category 0%	
Total Plant Energy Program Effectiveness Rating			**0.00%**	

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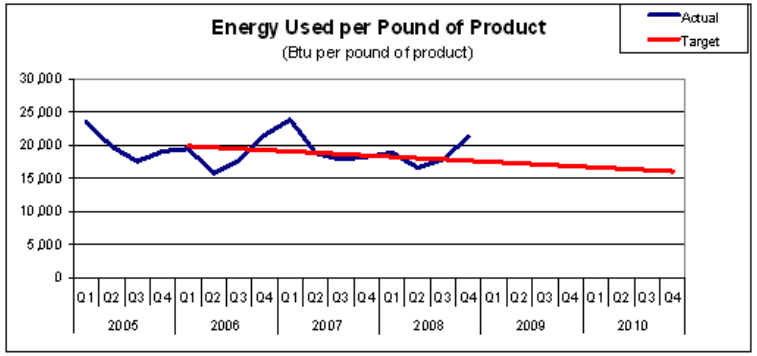
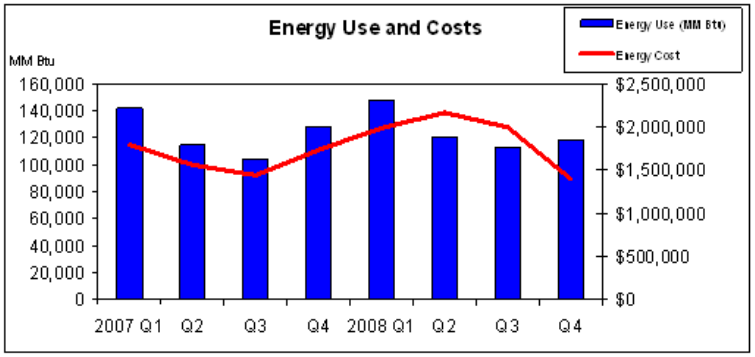
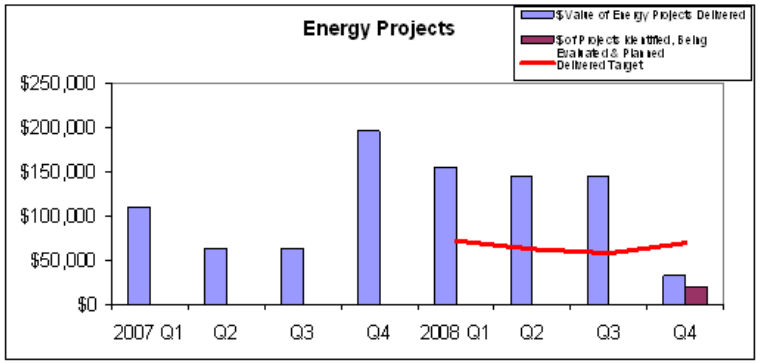
July 20, 2009

3M Plant Dashboard

	2007 Q1	Q2	Q3	Q4	2007 Total	2008 Goal	2008 Q1	Q2	Q3	Q4	Total 2008
Energy Trend											
Btu/Pound of Product	23,843	18,761	17,845	18,255	**19,617**	**18,833**	18,838	16,593	17,859	21,271	**18,510**
Change [1]						**-4%**	-20.99%	-11.56%	0.08%	16.52%	**-5.64%**
Energy Use (MM Btu)	141,960	114,554	104,194	128,370	**489,079**	**469,515**	147,804	120,083	112,512	118,650	**499,049**
Change							4.12%	4.83%	7.98%	-7.57%	**2.04%**
Energy Cost	$1,792,949	$1,559,032	$1,441,025	$1,732,413	**$6,525,420**	**$6,264,403**	$1,985,083	$2,164,435	$1,996,674	$1,397,109	**$7,543,300**
Change							10.72%	38.83%	38.56%	-19.35%	**15.60%**
Energy Cost per MM Btu	$12.63	$13.61	$13.83	$13.50	**$13.34**		$13.43	$18.02	$17.75	$11.78	**$15.12**
World Class Rating											
Plant Energy Program Effectiveness Rating [2]	90%	90%	90%	90%	**90%**	**85%**	87%	87%	92%	92%	**92%**
Projects											
$ Value of Energy Projects Delivered	$109,772	$63,126	$63,126	$195,181	**$431,204**	**$261,017**	$155,142	$144,899	$144,899	$32,770	**$477,710**
$ Value of Energy Projects Delivered as a % of Plant Energy Spend [3]	6.1%	4.0%	4.4%	11.3%	6.6%	**4%**	7.8%	6.7%	7.3%	2.3%	**7.3%**
$ of Projects Identified, Being Evaluated & Planned	NA	NA	NA	NA	**NA**		$0	$0	$0	$20,369	**$20,369**







Other Critical Metrics

2008 Energy Costs as a Percent of Total Plant Operating Costs	TBD

Potential Savings From Energy Projects Not Yet Completed	$816,464
Percent Energy Projects Completed	69.26%

Dashboard Color Signals

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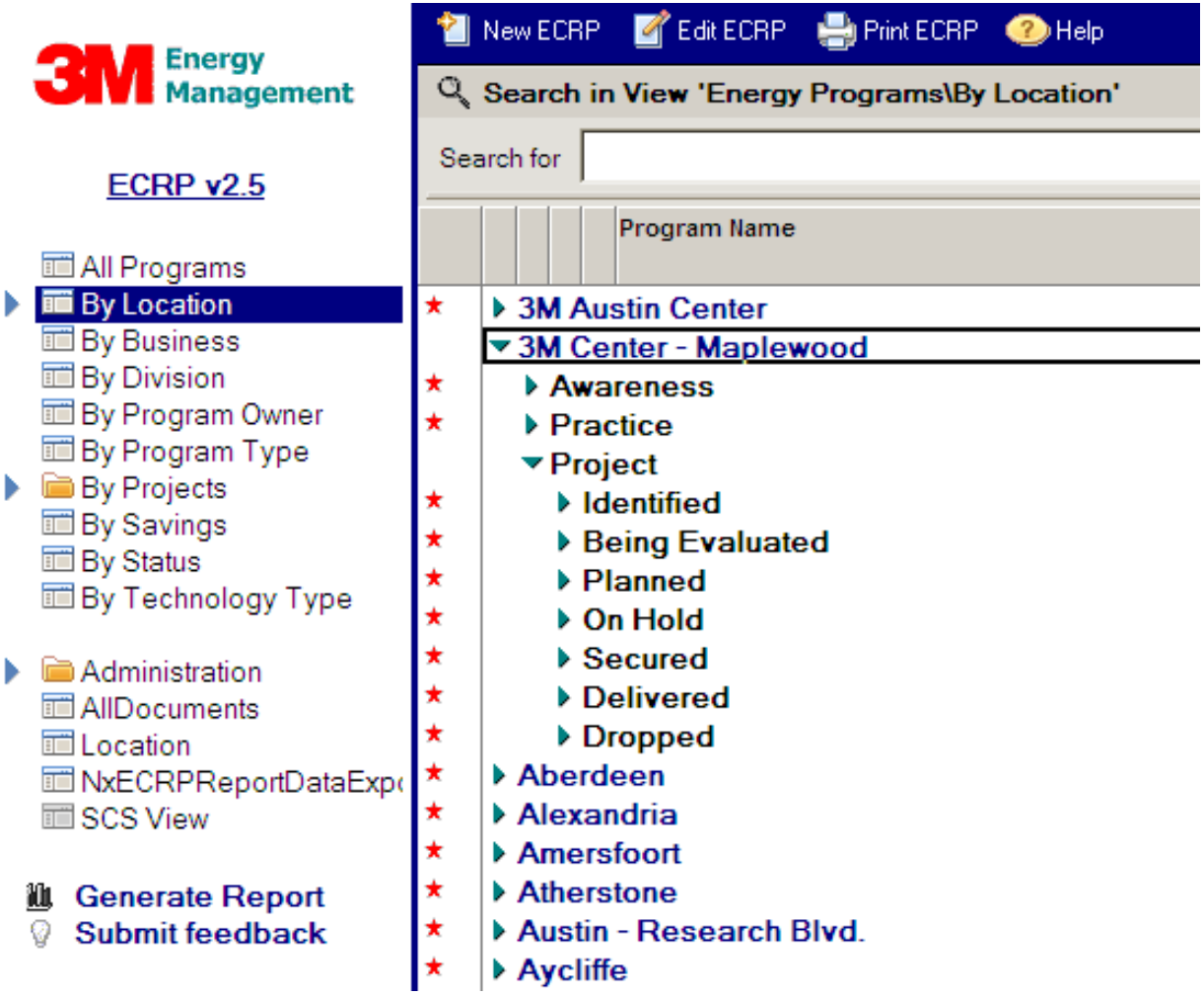
3M Energy Cost Reduction Projects Database



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July 20, 2009

3M Plant Dashboard

	2007 Q1	Q2	Q3	Q4	2007 Total	2008 Goal	2008 Q1	Q2	Q3	Q4	Total 2008
Energy Trend											
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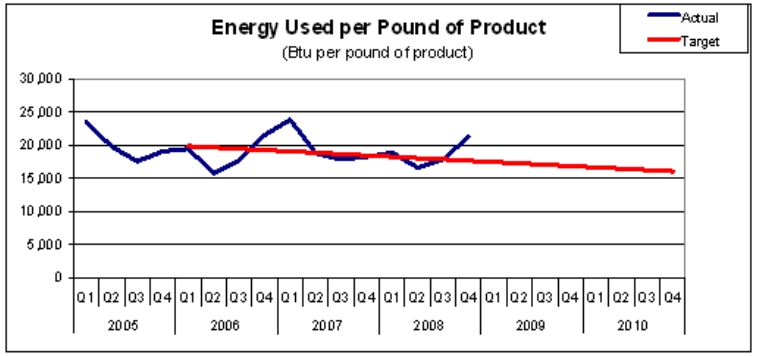
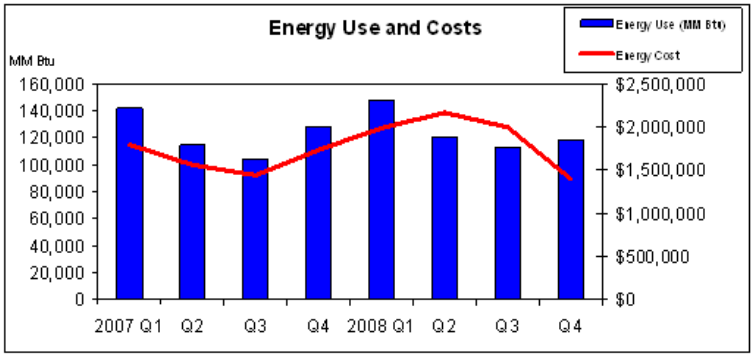
Change [1]						**-4%**	-20.99%	-11.56%	0.08%	16.52%	**-5.64%**
Energy Use (MM Btu)	141,960	114,554	104,194	128,370	**489,079**	**469,515**	147,804	120,083	112,512	118,650	**499,049**
Change							4.12%	4.83%	7.98%	-7.57%	**2.04%**
Energy Cost	$1,792,949	$1,559,032	$1,441,025	$1,732,413	**$6,525,420**	**$6,264,403**	$1,985,083	$2,164,435	$1,996,674	$1,397,109	**$7,543,300**
Change							10.72%	38.83%	38.56%	-19.35%	**15.60%**
Energy Cost per MM Btu	$12.63	$13.61	$13.83	$13.50	**$13.34**		$13.43	$18.02	$17.75	$11.78	**$15.12**
World Class Rating											
Plant Energy Program Effectiveness Rating [2]	90%	90%	90%	90%	**90%**	**85%**	87%	87%	92%	92%	**92%**
Projects											
$ Value of Energy Projects Delivered	$109,772	$63,126	$63,126	$195,181	**$431,204**	**$261,017**	$155,142	$144,899	$144,899	$32,770	**$477,710**
$ Value of Energy Projects Delivered as a % of Plant Energy Spend [3]	6.1%	4.0%	4.4%	11.3%	6.6%	**4%**	7.8%	6.7%	7.3%	2.3%	**7.3%**
$ of Projects Identified, Being Evaluated & Planned	NA	NA	NA	NA	**NA**		$0	$0	$0	$20,369	**$20,369**





Other Critical Metrics

2008 Energy Costs as a Percent of Total Plant Operating Costs	TBD

Potential Savings From Energy Projects Not Yet Completed	$816,464
Percent Energy Projects Completed	69.26%

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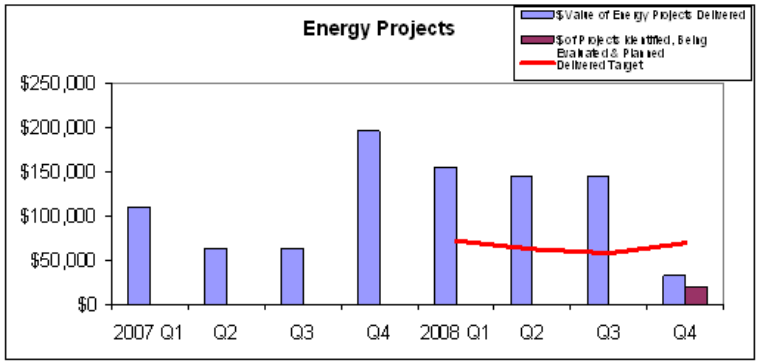

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3M Energy Management

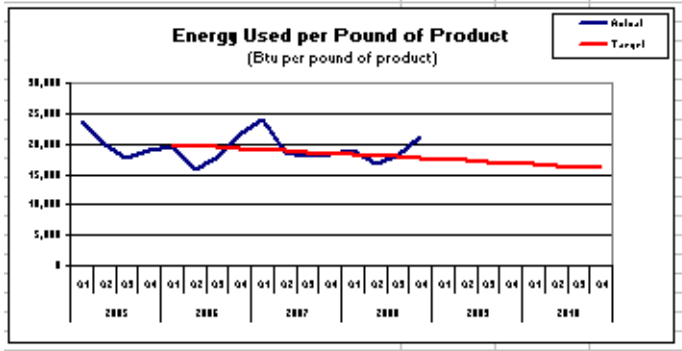
July 20, 2009

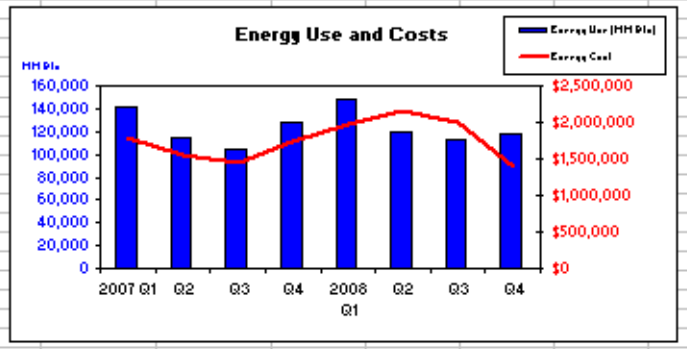
3M Plant Dashboard

	2007 Q1	Q2	Q3	Q4	2007 Total	2008 Goal	2008 Q1	Q2	Q3	Q4	Total 2008
Energy Trend											
Btu/Pound of Product	23,843	18,761	17,845	18,255	**19,617**	**18,833**	18,838	16,593	17,859	21,271	**18,510**
Change[1]						**-4%**	-20.99%	-11.56%	0.08%	16.52%	**-5.64%**
Energy Use (MM Btu)	141,360	114,554	104,194	128,370	**489,079**	**469,515**	147,804	120,083	112,512	118,650	**499,049**
Change							4.12%	4.83%	7.98%	-7.57%	**2.04%**
Energy Cost	$1,792,349	$1,559,032	$1,441,025	$1,732,413	**$6,525,420**	**$6,264,403**	$1,385,083	$2,164,435	$1,996,674	$1,397,109	**$7,543,300**
Change							10.72%	38.83%	38.56%	-19.35%	**15.60%**
Energy Cost per MM Btu	$12.63	$13.61	$13.83	$13.50	**$13.34**		$13.43	$18.02	$17.75	$11.78	**$15.12**
World Class Rating											
Plant Energy Program Effectiveness Rating[2]	90%	90%	90%	90%	**90%**	**85%**	87%	87%	92%	92%	**92%**
Projects											
$ Value of Energy Projects Delivered	$109,772	$63,126	$63,126	$195,181	**$431,204**	**$261,017**	$155,142	$144,899	$144,899	$32,770	**$477,710**
$ Value of Energy Projects Delivered as a % of Plant Energy Spend[3]	6.1%	4.0%	4.4%	11.3%	6.6%	**4%**	7.8%	6.7%	7.3%	2.3%	**7.3%**
$ of Projects Identified, Being Evaluated & Planned	NA	NA	NA	NA	**NA**		$0	$0	$0	$20,369	**$20,369**

Award Points	
5	out of 5
5	out of 5
5	out of 5
15	Platinum Level Award

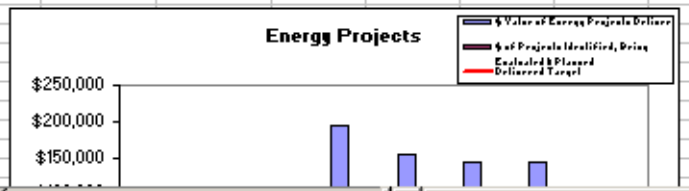
Possible Award Levels:
Platinum
Gold
Silver
Bronze





Other Critical Metrics

2008 Energy Costs as a Percent of Total Plant Operating Costs	0%
Potential Savings From Energy Projects Not Yet Completed	$816,464
Percent Energy Projects Completed	63.26%



Dashboard / Summary / Projects / Assessment Worksheet

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Energy Recognition Program

- Tier I Locations
- Based on a Point System Using Energy Dashboard Results
- Team Award – Entire Plant Energy Team Qualifies
- Annually
- Self Nomination
  - *Tier II Locations*
  - *Maximum Award – Gold Level*

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	Dinner	Lunch/Coffee	Certificate
Platinum	Team with Significant Others		X
Gold		Team Box Lunch	X
Silver		Team Coffee, Cookies	X
Bronze			X

Certificates signed by Vice President of Engineering, Director of Plant Engineering, and Corporate Energy Manager

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3M Energy Program Dashboard

3M May 18, 2004	2003 Q1	Q2	Q3	Q4	**2003 Total**	**2004 Goal**	2004 Q1	Q2	Q3	Q4
Energy Trend										
Btu/Pound of Product	5,044	4,272	4,844	4,071	**4,475**	**4,251**	4,772	4,772	4,772	4,772
Change[1]	-0.38%	-8.64%	0.58%	-2.45%	**-2.98%**	**-4%**	-5.39%	11.69%	-1.4[illegible]%	17.22%
Energy Use (MM Btu)	35,174	37,366	39,227	31,988	**143,733**	**136,546**	38,622	38,622	38,62[illegible]	38,622
Change	7.34%	19.69%	20.39%	9.12%	**14.18%**		9.80%	3.36%	-1.54%	20.74%
Energy Cost	$427,278	$499,812	$512,885	$415,380	**$1,854,355**	**$1,733,822**	$471,602	$471,602	$471,602	$471,602
Change	9.64%	21.61%	18.57%	7.09%	**14.39%**		10.37%	-5.64%	-8.05%	13.53%
Energy Cost per MM Btu	$12.15	$13.38	$13.07	$12.99	**$12.90**		$12.21	$12.21	$12.21	$12.21
World Class Rating										
World Class Energy Assessment Score[2]	90%	88%	91%	92%	**92%**	**85%**	92%	88%	7[illegible]%	85%
Projects										
$ Value of Energy Projects Secured & Delivered	$6,990	$165	$165	$165	**$7,485**	**$74,174**	$12,729	$12,729	$12,729	$12,729
$ Value of Energy Projects Secured as a % of Plant Energy Spend[3]	1.6%	0.0%	0.0%	0.0%	**0.4%**	**4%**	2.7%	2.7%	2.[illegible]%	2.7%
$ of Projects Identified, Being Evaluated & Planned	$0	$0	$0	$12,729	**$12,729**		$0	$0	$[illegible]	$0

0

4

3

7

Btu per Pound of Product Reduction	Plant Energy Program Effectiveness Rating	Projects Secured – % Delivered Compared To Plant Spend	Points
4%	90%	4%	5
3 – 4%	85%	3 – 4%	4
2 – 3%	80 – 85%	2 – 3%	3
1 – -%	70 –79%	1 – 2%	0
0 – 1%	69% -	0 – 1%	0

15 = Platinum

12 – 14 = Gold

9 – 11 = Silver

7 – 8 = Bronze

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Energy Award Winners 2009*

Platinum	Gold	Silver	Bronze
Brownwood	3M Center	Alexandria	Menomonie
New Ulm	Corona	Austin Center	Valley
Tonawanda	Greenville	Brookings	
	Guin	Cynthiana	Naju
Atherstone	Methuen	Nevada	
Aycliff	Pittsboro	Hutchinson	
Brockville Tape		Prairie du Chien	
Gorseinon	Beauchamp	Wausau	
Ribeirao Preto	Hilden	Springfield	
San Luis Potosi	Seefeld		
	Singapore	Gendorf	
		Higashine	
		Itapetininga	
		Kamen	
		Kitakami	
		London Ontario	
		Sumare	
		Yang-Mei	

* For results achieved in 2008

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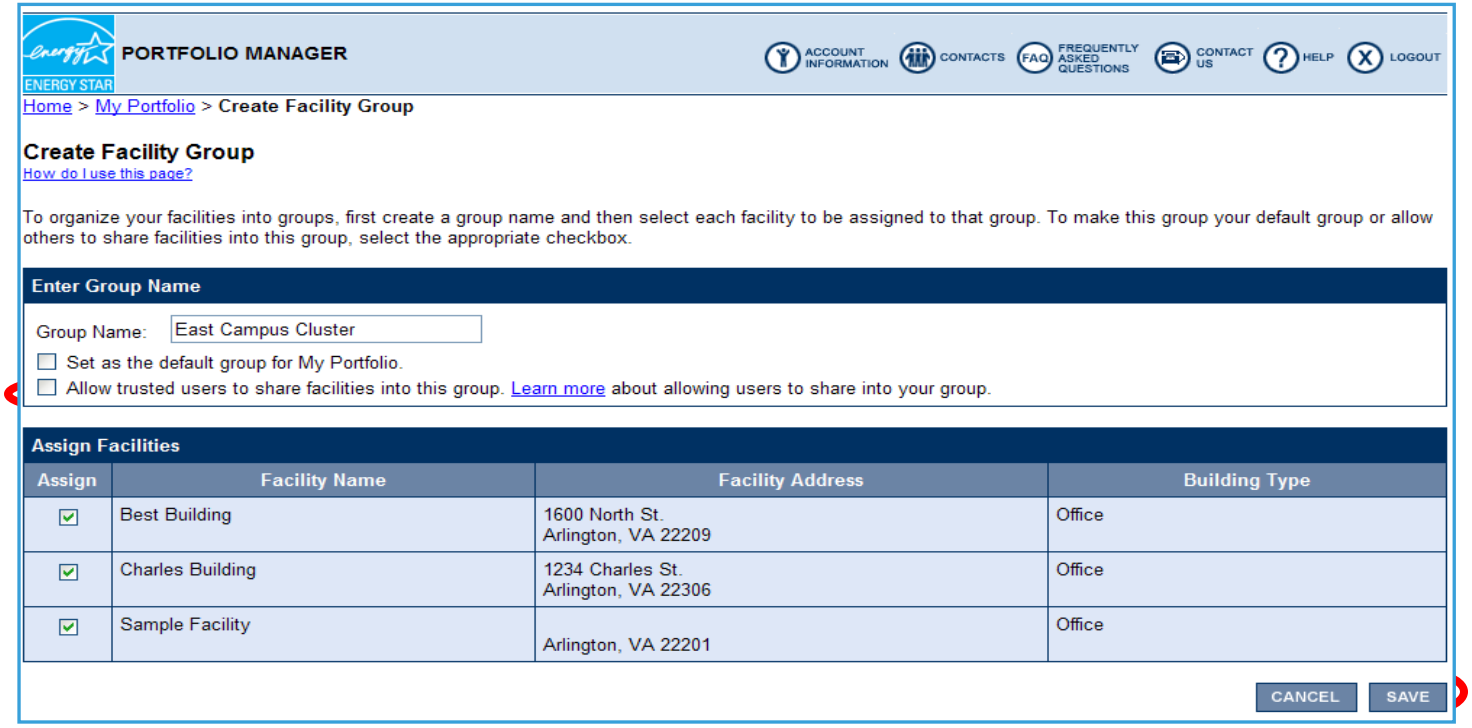
Questions & Discussion

Portfolio Manager

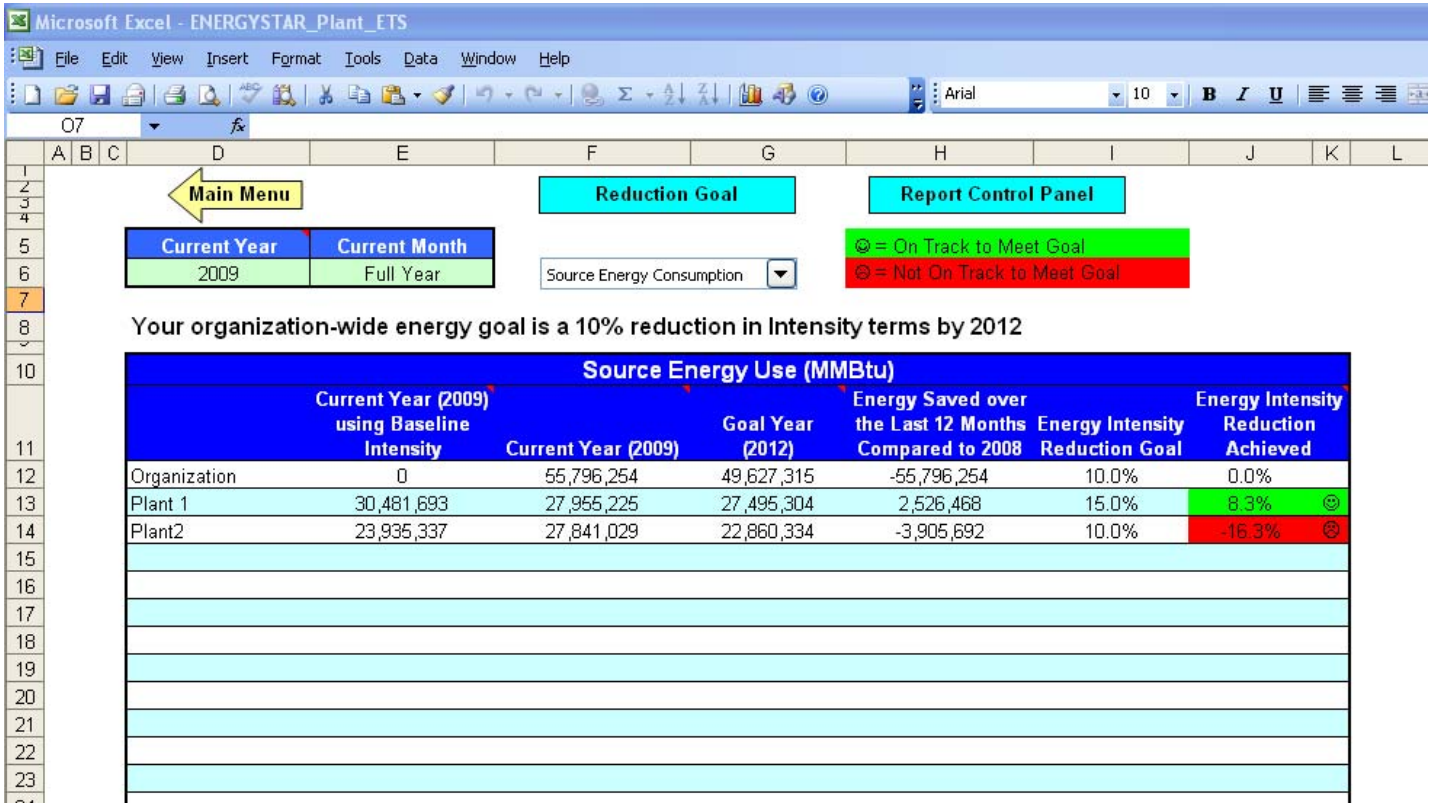
- Master Account & Group Functions allows data to be shared across sites:



Look for new training and guidance this fall at www.energystar.gov/benchmark

Plant Energy Tracking Tool

- For Industrial Sites – energy tracking, goal setting, and reporting tool with a “dashboard” function.
- Look for release this fall!



2009 Web Conferences

Month	Topic
August	Lighting Technology & Strategies
September	Our Top Energy Projects
October	Energy and GHG Management
November	Energy Management Financing Strategies
December	No web conference

Questions / Comments / Feedback on the Web Conferences?

Contact: tunnessen.walt@epa.gov

Supply Chain Working Group

- August 25 @ 2 PM - Electronic Industries' Carbon Tracking System for Suppliers.

- Register at: http://energystar.webex.com/meeting
  - Click on August 25 on Calendar

- Thank you