

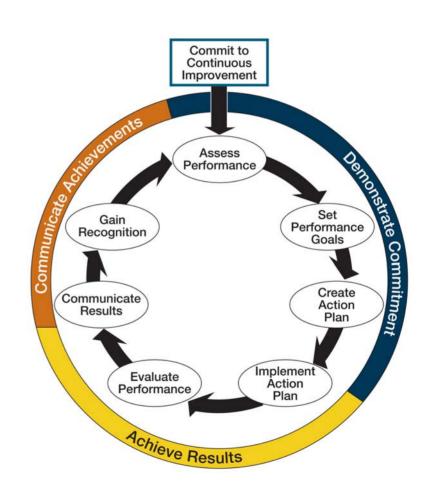
January 15, 2003

Money Isn't All You're Saving

#### **About the Web Conferences**



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





## **Today's Web Conference**

- Introductions
- Mobil
- Kodak
- Tips
- Open Discussion



## The Challenge

# Senior Management is not supportive of the Energy Program



# **The Common Perception**

How is energy management perceived at your organization?

- Under-valued?
- Unappreciated?
- Under-funded?
- An ego trip for the sponsor?
- A flavor-of-the-month program?



## **What Matters to Management**

#### The WII FM - Radio Station:

- \$\$\$
- Opinion Leader Perceptions of organization
- Public Image PR & Government Relations
- Environmental Stewardship



## The Strategy I Used

#### As Mobil Global Energy Manager

- Offer a \$\$\$ Prize
- Validate the Prize
  - **J&J**
  - Ford
  - Chase
  - IBM
  - **AT&T**



## **Compare to others**

#### SPACES AND PLACES

WORLDWIDE FACILITIES GROUP

#### EPA NAMES GM ENERGY STAR 2002 PARTNER OF THE YEAR



GM's commitment to energy recitor has been recognized by the Environmental Protection Agency, which named GM an ENERGY STAR\* "Partner of the Year' at its awards ceremony in March in Washington, D.C. GM was honored in the EPA's "Excellence in Energy Management" category, acknowledging GM's outstanding commitment to energy efficiency through continuous improvement of energy performance throughout its organization.

"General Motors is proud to have been an ENERGY STAP pather since 1998, allowing us many opportunities to work cooperatively with the EPA in increasing our efficiency and cost-effectiveness," said Elizabeth Lowery, GM Vice President. Environment and Energy "In fact, CM is undertaking an aggression program employing the ENERGY STAR principles to reduce energy usage at its North American facilities by 25 percent by the end of 2005, and we are making tremendous progress."

The EPA recognized 36 companies in five other categories: Excellence in Energy Management, Excellence in Efficient Products, Excellence in Homes, Excellence in Consumer Education, and Excellence in Corporate Commitment.



Accepting the 2002 Energy Star Award for Excellence in Energy Management on behalf of GM are (left to right), Craig Manason, World Resources Institute; Kamesh Gupta, Manager of WEV Unities Services Trategie Planning; and Vors, Senior Project Engineer at WFG UNITIEs Services; Joe Bibana, Director of WFG UNITIES Services; Too Research Control of WFG UNITIES Services; Too Research, Girector of WFG UNITIES Operations; Christic Whitman, Administrator at the U.S. Exvironmental Protection Agency, Bows Salven, WFG Executive Director, Existing Zimmennam, Manager at the Energy and Global Climate Issues team; and Terry Pritchett, Director of the Energy and Global Climate Issues team;

GM was the only industrial company to receive an award.

OM was honored for its leadership in incorporating strategic energy management into its business operations, including energy-efficient lighting retrofits, energy-efficient heating and ventilation systems, weekend shutdowns, energy management systems, and energy sutticiency plans of 6.8 trillion BTU in 2001 over 2000. That represents \$60 million in cost savings at its 73 North American manufacturing facilities encompassing more than 165 million square feet.

The award also reinforces GM's commitment to environmental preservation.

The EPA's recognition of GM's excellence

in energy management reinforces our drive to reduce energy use." added Lowery. These kinds of energy initiatives are good for the environment, good for business, and good for our customers. We are proud to be a part of the ENERGY STAR program, which we believe is an excellent example of public-private partnership.

#### WHAT ARE THE ENERGY STAR AWARDS?

ENERGY STAR is in its 10th year of offering energy-efficient solutions that help protect the environment for future generations. ENERGY STAR Award winners are chosen for their commitment to energy efficiency in:

- · Product manufacturing
- and product retailing • Home building and
- home improvement
- Business and facility energy management
- Educating consumers

ENERGY STAR was established by the Environmental Protection Agency in 1992 to offer energy saving and pollution preventing solutions for consumers and businesses. ENERGY STAR now works with more than 7,000 partners to improve the energy efficiency of products, homes, and buildings.

in 2001 alone. ENERGY STAR programs helped Americans save 55 billion in energy costs and reduced pollution equivalent to taking 10 million cars off the road. Since its conception 10 years ago, more than 750 million ENERGY STAR products have been sold, more than 55,000 new homes have earned the ENERGY STAR label, and more than 10,000 office buildings, schools, supermarkets, and hotels have benchmarked their energy performance as a basis for future progress. All this has been accomplished without sacrificing product features, quality, or personal comfort.





## **Get High Level Champion(s)**

- Ask your management to assist in Identifying & Confirming
- Accept and give out awards
- Has the ear of the CEO



## **Developing the Champion**



Recipient of AEE's 1996 Corporate Energy Management of the Year Award



The 1996 AEE International Awards were presented during the AEE Banquet held Yuesday, November 5, 1996, at the 19th World Energy Engineering Congress in Atlanta, Georgia. Jerry Taylor, Awards Chairman, presented the Corporate Energy Management of the Year Award to Mobil Corporation. It was accepted by Brian Baker.

Mobil is committed to the efficient, cost-effective and environmentally responsible use of energy throughout its worldwide operations. Mobil promotes energy efficiency by implementing cost-effective programs that will maintain or improve the quality of the work environment, optimize service reliability, increase productivity and enhance the safety of its workplace. Mobil's Facilities Management Network sponsored a cross-divisional team to reduce energy costs. This team developed an Energy Management Plan to reduce energy costs by \$25 million annually throughout all Mobil divisions over the next five years (total of \$125 million committed savings). The core of this plan is the belief that energy costs are controllable and should be managed with the expertise that Mobil manages other parts of the business. Mobil's energy programs have resulted in a cumulative savings of \$75 million from 1990 to 1994. In 1995 alone, \$22.3 million in documented savings were achieved by our energy-management network.



Association of Energy Engineers 4025 Pleasantdale Road Suite 420 Atlanta, GA 30340 (770) 447-5083 www.aeecenter.org





#### **You Need Allies**

- Your Own Management
  - -write letters for their signature
- PR Staff
  - Able to get information to the top
- Plant Managers
  - Core business & creditability (known for no spin)



## **CEO Award to Plant**





#### **Communicate & Deliver The \$ Prize**

- Do short annual energy program report that concentrates on:
  - **-**\$
  - -PR
  - Training of people
  - Non-energy benefits
  - Use graphics

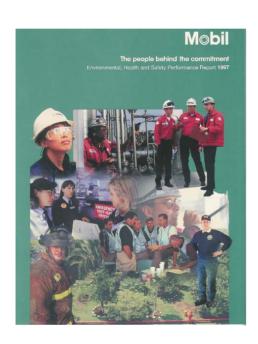


#### **Communicate & Deliver The \$ Prize**

- Use third-party validation
  - Outside director's interest
  - Shareholder Meetings
  - Environmental Reports



# **Environmental Report**



#### Using energy and other natural resources efficiently

1500

Mobil is committed to the efficient use of fuels of the equipment. The network's survey of and other raw materials in order to protect. the entironment.

P. Salt

facilities management coordinator, began in 1991 building a global ream of Mobil people dedicated to identifying and implementing

FRED SCHOENEBORN, MOBIL'S

energy savings. It started out informally, but over time the organization gained official status and a name - the Mobil Energy Management Network. And it has led Mobil to prestigious awards woeldwide.

The network provides expertise when requested by Mobil affiliates around the world. It's a kind of technology transfer to promote energy efficiency. Along with outside expens, the network puts together teams to perform on site surveys, finding energy-saving opportunities and then sharing the results with Mobil facilities worldwide.

Ir was through the network's efforts that Mobil Oil Nigeria (MON) installed the first variable speed drive used in any African facility. The drive controls motors in MON's modorn headquarters so that the frequency and voltage of electrical supply match the demands service stations operated by Mobil in the U.S. resulted in lighting modifications that have substantially reduced energy costs.

Schoeneboen helped guide Mobil into the U.S. Environmental Protection Agency's (EPA) Green Lights and Energy Star Buildings programs, which promote energy efficiency. We were a charter member of the programs and have helped the EPA identify future voluntary inmatives. Mobil is the EPA's 1998 Energy Star Buildings Partner of the Year and has previously been the EPA's Green Listhes Partner of the

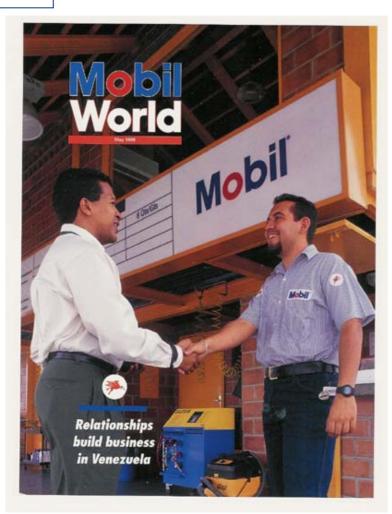
Recent awards for activities spacked by Mobil's Energy Management Network include the New Zealand Energy Efficiency and Conservation Authority's 1997 Energy-Wise Companies Award and the Association of Energy Engineers' Corporate Energy Management of the Year Award.

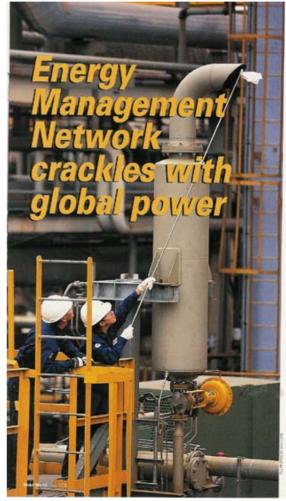
Schoeneborn is a missionary for conservation around the world. As he puts its "Saving a watt is apolitical, multicultural and transnational. It helps everyone, and it doesn't

Facility	Initiative	Savings (klowath-nours)
John Reinery (Illinois)	Provide automatic condensare drains for compressed six system	1,580,000
Tring Yi Complex (Hong Kong)	Provide dew-point demand control for compressed-air dryers	160,000
Chalmette Refreery (Leumiana)	Install controls on water pumps	\$,260,000
Edison Chenical Products (New Jersey)	Improve operation of closed-loop coolers	1,250,000
Paulsboro Tochnical Genter (New Jersey)	Provide positive control of exhaust hoods during unoccupied periods	1,890,000
Harmattan Gas Plant (Canada)	Reduce an-compressor discharge pressure	1,530,000



# **Monthly Company Magazine**





Barts Clost, energy site specialist of the James relisery in Singapore, holds a Sing in foot of a west in a simple but offsiche method is confirm suspected conservated air leaks.

network stated seven years up by solved facility managers who warned to reduze operating costs has ramed into a company-side energy-management plan that is amazing attention from energy, government and industry officials mount the world.

In its first two years of fortial operation, the Mobil Energy Management Network shared \$50 million off energycots and isstituted an energysurvey process that is being called a model for energy-management programs everywhere.

"Mobil is a 'can-do' kind of company that says it can do whatever needs to be done, and I think that was the amtude of facility and energy managers when they started this ball rolling," says Nick Green, the Fustian-based manager of Global Rod Estate and Facilities.

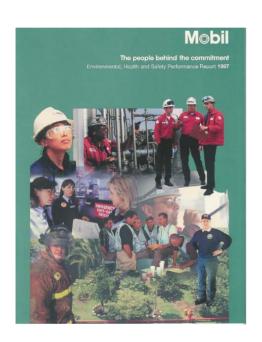
The Energy Management Network became an official Mobil entire in 1995, with a goal of cutting energy bills by 5 percent every year for fine years. It quickly became obvious that there was a much larger opportunity that required even bagger plans.

"People have been able to being wooderful things to the bottom line," says Fred Schoeneborn, the Global Facility and Euerge Management coordinator who is headquarnesed in Flairlax. "I

4

#### **PR Benefits**





> -Max Beadford New Zealand Energy Mounter





#### **PR Benefits**

CONTACT: Gail Campbell Woolley, (703) 846-1004

#### Mobil news release

MOBIL COMPONENTION SIZE CIRLLONS MOAD RAISPAIX, VIRGIBIA 20137-400\* TELEPHONE (703 BHL450)

#### EPA NAMES MOBIL ENERGY STAR® BUILDINGS PARTNER OF THE YEAR

FAIRFAX, VA., March 25, 1998 -- Mobil Corporation was named the U.S. Environmental Protection Agency's (EPA) 1998 ENERGY STARG Buildings Partner of the Year Tuesday for its voluntary installation of energy-efficient lighting and other emissions-reducing technologies in the company's facilities.

The EPA ENERGY STAR® Buildings Program was introduced in 1995 as a wholebuilding strategy to assist businesses and organizations with installation of energy-efficient technologies in their commercial and industrial facilities. ENERGY STAR® Buildings complements the EPA's Green Lights® Program, which began in 1991 to promote energyefficient lighting.

"Mobil has shown energy efficiency is a smart business strategy," said Maria Tikoff Vargas, co-director of EPA's ENERGY STAR® Buildings and Green Lights® Partnership. "Mobil's partnership with the EPA also serves as a remarkable example of environmental leadership."

As a charter member of the ENERGY STAR® Buildings and Green Lights® Partnership, Mobil has saved more than \$77 million in energy use at its worldwide buildings and facilities since joining the program. This lower energy consumption has also reduced total carbon dioxide, sulfur dioxide and nitrogen oxide emissions.

"The technologies and processes advanced by the ENERGY STAR® Buildings Program makes tremendous sense from an environmental as well as economic standpoint," said Nick Greco, general manager of Mobil's global real estate and facilities department. "We are investing in this program because it helps us more profitably manage our resources while significantly reducing energy use and emissions. These programs are excellent models for other agencies to develop cooperative efforts for innovative solutions."

The goal of the programs is to optimize energy efficiency and profits while preventing emissions. By the year 2010, the EPA expects the ENERGY STAR® Buildings and Green Lights Partnership to reduce annual greenhouse gas emissions by 24 million metric tons of carbon equivalent; that's nearly a 10 percent reduction in projected emissions from commercial buildings.

#### **PR Benefits**





#### TURN DOWN THE ENERGY

/ TUNE UP THE PROFITS

Only a third of U.S. manufacturers are seriously scrutinizing energy usage, where savings in five areas can move billions to the bottom line.



JUST DY CHECKING steam traps like the one at left, Do Poel seved \$1 million a year at its wast Chambers Works (above) in New Jersey.

norgy used to be looked upon as were repotencial component of correlated, a necessary roll. But these draw measures says, "Nov're part of my continued as measures says, "Nov're part of my continued as looked like". Speaking in Jim Oberndorfer, manager of Perkin-Diener's bethies in Cramocicia. 16% getting attention become of what he accomplished at the company's analytical instrument plant in Novaulk. Sec. 1992, Oberndorfer has cut the electric power bull 20% despite a rate forcesses, some capamion in square forcess, and a rice in distingues.

Perkin-Elmer int'i alone in its efforts. But given the handsome rossulfs from energy-conner-ving steps, the wooder is inmore composites aren't realing to follow suit. In 1994, the most record year for which figures are available, the U.S. Department of Energy counted UL2009 American manufacturing companies with some kind of program to whitele away at the time of electricity, pas, and old. Almost twice that market, how-

BY PHILIP SIEKMAN



ENERGY STAR SHOWCASE CLOSE-UP

## Mobil: Partners in Protecting the Environment

Bh a track record around the globe that has kept Fairfax, VA-beadquartered Mohl Corporation thriving for almost 130 years, if a no wonder the company prices itself on seeking — then maximizing — opportunities us they arise. Opportunities us they arise. Opportunities that build on Mohl's long history of quality, resourcefulness, industry growth, as well as its excellence at meeting environmental challenges.

Visible evidence of achievement and vision, runs throughout the organiza-tion, from its exploration, production, marrheting, and refining operations to operations useful its facilities. It's also no wonder, then, that the EPAs Energy Star Shuarouse Build

ings program found an enthusiastic Partner in the
corporation. Not only
did Mobil attain the
statms of the agency's
first Green Lights
Partner of the Year in
1994 Jamong 602 Partners in the program], it
has realized annual electrical savings of \$800,000 in
in headquarters alone thre

its headquasters alone through a comprehensive lighting suppride a compassing both technical and financial considerations. In total, \$1.8 milhoo has been spent on Geom Lights' suggrades in contrast, the corporation has archived \$1 million arranally in sortings. At the same time, Model has helped the EFA further its own used certainting of the suggrade process by sharing tital information, about is implementation activities.

Of the 24 Energy Star Shaucouse Building projects selected by the EPA in mid-1894, Mold has committed two of its facilities: the company's 6-year-old office/retail complex. Beston Town Center, and a 225,000 square foot office/research facility in Farmers Branch near Dallas, Motal Technical Center: Company objectives for the Showcose program, to be empleted this summer, include a laugeted 40 percent reduction of carcity costs fin the relatively new facility) through lighting topendes (Green Lights): a building tune-up incontrols/regolt: load reduction incident/redding upgrades): an HVAC system upgrade (VSD motoric): an a HVAC plant superade (Including system downstring in accordance with load reductions).

But Mobil's success in this new coventure will not be due to technology alone, according to Fred Schoeneborn, Mobil's facility management coordi-

nator. These EPA voluntary programs are an absolute win-win for all of us.

They not only help us reduce operating costs and caregy use, but also highlight the outstanding job our facility missages do at their sites." he says, commending the contributions of the Reston on-site staff of

of the Reston on site staff of facilities associates, Joseph B. Dunovan and Donnie Brown, of LaSalle Partners Management Ltd.

Schoensborn believes this recognition and the resulting communication among Modals beclining predictions do and management at specific sites, as well as worldwide — have been the organization's real achievement. Green Lights, he adds, "provided a catchys—to reruit a uniform concept and a unique opportunity to work to gether. Etorgy Star Showcase will expand on that."

And at Mobil, opportunity soon be-

resulty.

BUILDINGS MAGAZINI MARCH 1995 SUPPLEMENT

#### Voluntary "can do"



It started with small steps like turning off unnecessary lights. Then the pace picked up as we tuned up operating equipment and reduced

electric power needs. It may not sound lieu much, but a little bit here and there adds up. Since 1990, it has added up to \$77 million in energy savings at Mobil facilities around the word.

Research lieu these convinced us that finding

Populs like these convinced us that finding ways to save energy is a good way to improve both the bottom line and the environment.

both the portion lies and the previourners.

In March, It is U.S. Environmental Protection. Agency, 1974, named Mobil the "1998. Beavery Dam Pullary Review of the "1998. Beavery Dam Pullary Review of the "Nee" for "overal accelerors in the Exercit State "Buildings and Gener Lighth Patterwish". The waved revogances our longitime voluntary commitment to excluse energy consumption. The ESM called these enforts "a remarkatile example of how orgalizations can combine environmental concerni with smart business strategy."

While the Exercit State opcorrain was

While the Energy Star\* program was designed intelly to save energy by nutting electricity use, it also provides an added benefit enducing emissions of carbon dissets. And that's important because of concerns about the potential impact of increasing greenhouse gases in the

Pight now, 18 percent of U.S. Forthers 600 comparing participate in these federal energy-efficiency partnerships. So cla handests of non-profit organizations, decient, sites and local governments, universities and social opvernments. Universities and social opvernments are senting to the contract of the profit organization of 12 million resists for so of carbon deputs of the profit of the pr

By the year 2010, the EPA expects the Exchan Start Buildings and Green Lights? Partnership to reduce annual greenhouse gas emissions by 24 million metric tons of carbon quaylent that's nearly a 10 persent reduction in projected emissions from commercial buildings. How did we begin? Our energy management specialists began in 1990 to identify costeffective and environmentally sound solutions by tacking Mobil's electricity consumption first.

They installed more efficient lighting, funed up older buildings and focused on "right sizing" the heating and occling equipment to match our lower energy needs.

Sometimes, they found simple solutions. like installing sersors to turn lights on wherever someone enters infection this used spaces. Other times, the fearn streamlined entire processes, such as compressed air production or heat and etcom systems.

Their efforts have escalated. Now, teams are the reference of the second of the second

W'in proud to be a charter member of the EMA program. Not only has it helped out bottom line, it also contributes to out efforts to tom line, it also contributes to out efforts to tom line. It also contributes to out efforts to reduce greenhous gas envisions. These letters include installing energy-awing technology at enritantess, reducing gas fairly in our offsthore producing fairly and efficient entire fairly in the last three years, we've out can can be on emissions by more than one million metric loss and set set of contributes.

While Motor is talking prudent, responsible teep new to voluntariary issues our enrestions and those of our customers, dimiter afforts by consumers can help, too. Steps like choosing more energy-efficient appliances, upgrading formes to make them more fuel-officient or combining errands when civing can make a difference.

Let's show a little voluntary "can do." Wise energy management is everyone's business.

For information on EPR's Energy Start program, contact: 1-888-STAR YES (1-888-782-7937).

Mobil The energy to make a difference

This ad appeared in The New York Times April 2, 1998

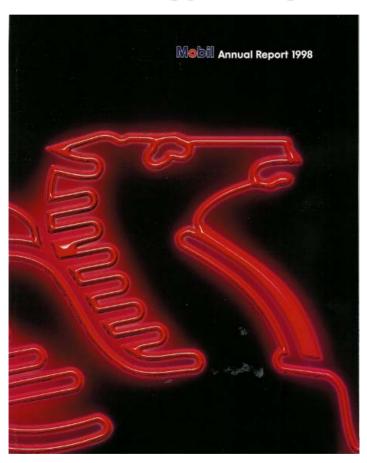
oleom

1005 Maiol Corporal



#### **Deliver the Prize**

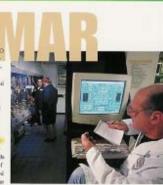
#### **Energy Program in Annual Report**



Mobil Corporation and Food Motor Company entered into a broadbased strategic officine to specif the development and integration of tecalidrough fuel and vehicle technologies. Mobil Chairman and CEO Lateic A. Noto said the alliance "offers great potential to develop new hydrocarboo-based facilisation power sources which could be of algorificiant benefit to both the two-otting paths and the environment.

A relication was reached when Mebil and its partners exported their first carps of reached of from Tutherminian. Another landmark was exached when Mobil became the first floreign energy company to span service stations in Venezaela. By the end of the year, Mebil had more than 60 strategies sites averaging more than feer million gallons of volume a year in key Venezaelan markets.

In the United States, the Environmental Protection Agency named Mobel in Energy Star Bandings Partner of the York for its sell-trarry intellation of energy-efficient lighting and other eminaster-reducing technologies in the company's facilities. Among other awards Mobil was during the year, the Department of Minerals and Energy of Western Australia between the Company with its Golden Gecko Award for Environmental Excellence.



Mobil established a serim of aggressive flavironmeral, Health and Sarley goals, along with related dwa-gathering practices, for its global operation. The goals, maning through 2000, focus on alternating fautities and greetly reducing injuries, fires, emploitiest and oil spills. The company expanded as internal reporting requirements so that it could collect workloads data on its air emissions, water discharges, worke perentation and energy use.

Al year's end, Mobil's volume optified increased primorely because of a pipeline regime offshore Negorie. The days supply-froms work interpreted illness rate for employees and contracture declined 30 percent, but fires and explasions increased, And employees and contracture work-eelahed fitalities increased to 24, leading to a major road softly progent, among other initiatives. Mobil's Seleyu in Jupelin led the Mobil's organization in safety.

## **Deliver the Prize**









# **Sell Your Accomplishments**

But sell with facts!



## **Questions?**

#### **Questions for Fred**



# Elevating Energy Management at Kodak





#### **Key Elements**

#### Key Elements To A Successful Energy Conservation Program

- Management Commitment
- Effective Strategies
- Fast Implementation
- Effective Communications





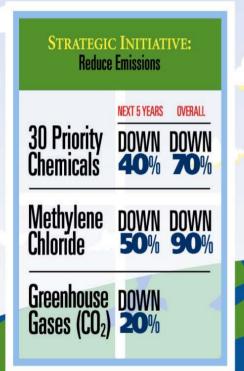
#### MANAGEMENT COMMITMENT

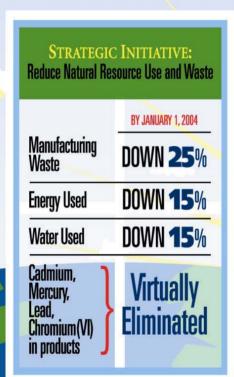
- Set High Environmental and Energy Corporate Goal
- Establish Energy Policy
- Dedicate Resources

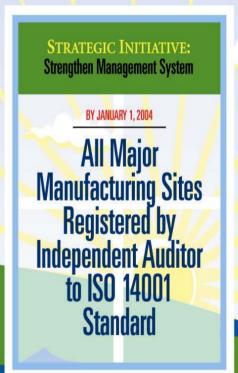




#### FIVE-YEAR WORLDWIDE ENVIRONMENTAL GOALS









## **Management Commitment**

- Ask for Top Management Support
  - Establish an Energy Policy
- Talk to Middle Management --Why Is Energy Efficiency Important to the Company
  - Change Mindset -- High Energy Efficiency Improves Productivity & Provides Jobs
- Ask Division Level Management to Add Energy Targets to Their Scorecards
  - Commit Resources





#### **ENERGY STRATEGIES**

- Establish Partnership With Manufacturing Customer
  - Setup Energy Focus
     Team At Site Level
- Develop Cost Incentives To Manufacturing Leaders
  - Cost AllocationSystem Based onUsage







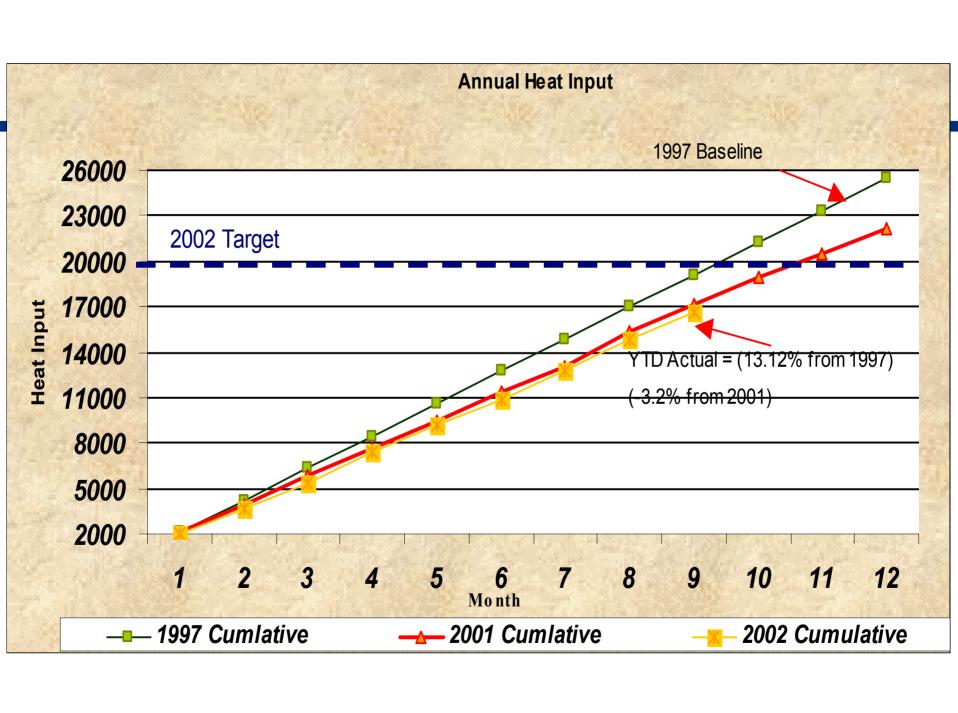
## **Report Progress**

Energy Scorecard

Energy Tracking

Cost Productivity







#### **KEY ACCOMPLISHMENTS**

FROM 1997-2002

REDUCED ENERGY BY 16.5 %

REDUCED CO2 BY 14%

 SAVED \$8.5 MILLION IN ENERGY COST





#### **Key Accomplishments CO2**

From 1997-2002 (Non Indexed)

Reduced CO2 Worldwide By 13.4 %

Reduced CO2 Rochester By 14.2 %





## Keep Management Involved

- Host Worldwide Energy Summit
- Publish Achievements in Neighborhood Newsletters
- Publish Achievements in Environmental Report
- Involve Management In Award
   Ceremonies
- Create Winning Team





## **CEO Visits Energy Booth**





## Manager Presents Award to Employees





**OFFICE** 



## **Questions?**

## **Questions for George**



## **Tip Sheet**

Elevating Energy Management
To Senior Management

- Available on ENERGY STAR web site
- Available as Word Document



# **Open Discussion**

## **Upcoming networking opportunities**



Monthly Web casts

Networking Meetings



# Thanks for participating!



#### **Presenter Contact Information**

- Fred Schoeneborn
  - -FredSchoeneborn@aol.com

- George Weed
  - -george.weed@kodak.com