US ERA ARCHIVE DOCUMENT



ENERGY STAR

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Today



ENERGY STAR

- Purpose
- How it works
- Driving consumer (and business)
 behavior
- Protecting brand integrity
- Why it works
- Lessons learned



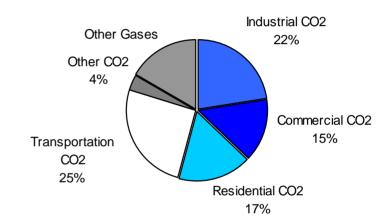
ENERGY STAR

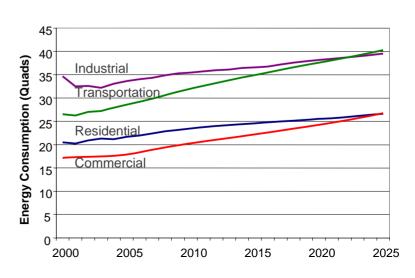


- Reduce greenhouse gas (GHG)
 emissions through large win-win-win
 opportunities with today's energy
 efficient technologies and practices
 - 30% savings in many buildings, homes, and facilities
- Provide credible information to buyers to
 - reduce transaction (research) costs
 - reduce perceptions of risk
 - enhance investment in efficient technologies and practices
- Work with the marketplace to capitalize on motivations of individual actors

\$EPA

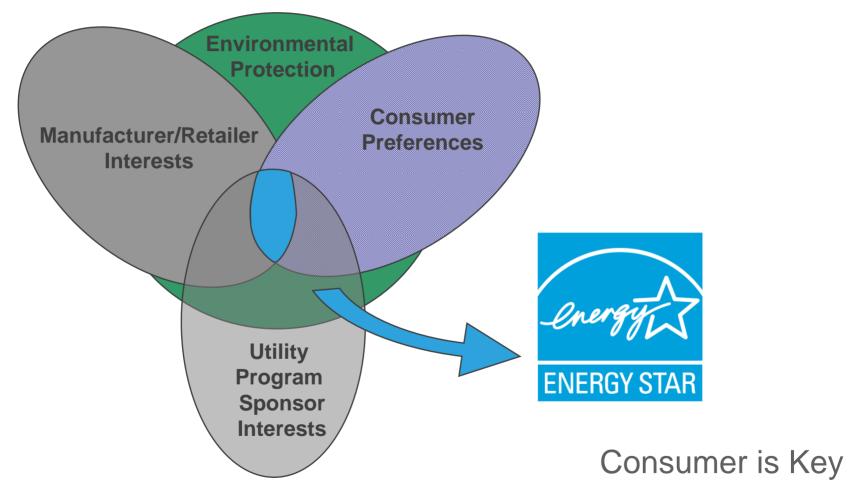
Greenhouse Gas Emissions by Sector 2000





Environmental Success Requires Finding/Building Upon Intersection of Interests







ENERGY STAR



- Protects the environment through superior energy efficiency
- No tradeoffs in performance or quality
- Cost effective (2nd price tag)
- ENERGY STAR is a government backed symbol providing valuable, unbiased information – source of authority
- Binary (Y/N)
- Power of the individual to make a difference



ENERGY STAR Strategies





Residential

Labeled Products

- -- 50+ products / 1700 manufacturers
- -- 10-60% more efficient

Labeled New Homes

-- 30% more efficient

Home Improvement

Services

- -- beyond products
- -- ducts / home sealing
- -- whole home retrofits





Commercial / Industrial Corporate energy management

- -- benchmarking, goals, upgrades(mgmt & systems --not widgets)
- -- whole building labeling for excellence
- --technical assistance

Labeled Products

-- for plug load, not system components

Industrial

Small business initiative

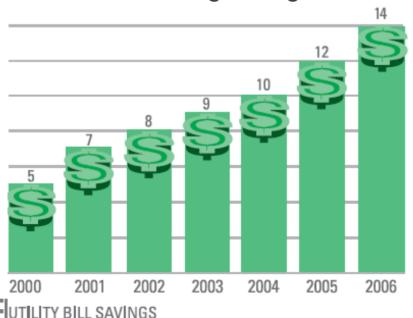


A Successful Program Accomplishments - 2007

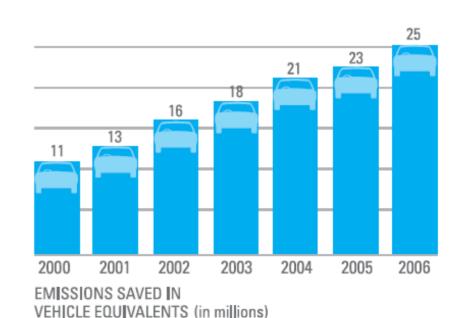


In 2007, Americans with the help of ENERGY STAR:

- Prevented 40 million metric tons of GHG emissions— equivalent to 27 million vehicles
- Saved \$16 billion on energy bills
- Delivered 1/3 of total US GHG emissions reduction from EPA's Climate Change Programs



(in billions)



Successful Program



- Public awareness of ENERGY STAR over 70%
- Engaged 12,000 organizations in manufacturing, delivery, adoption of energy efficiency
- Helped consumers purchase more than 2.5 billion qualified products from more than 2,000 manufacturers across 50 product categories
- Over 840,000 new homes are ENERGY STAR; 12% of new homes starts across the country are ENERGY STAR
- Tens of thousands buildings benchmarked, thousands of buildings improved

ENVIRONMENTAL RESULTS POSITIONED TO DOUBLE OVER NEXT 10 YEARS



A Brand:



- Is a complex relationship of functional benefits and emotional connections
- Exists in the mind of consumer
- Everything you do defines your brand:

-- products

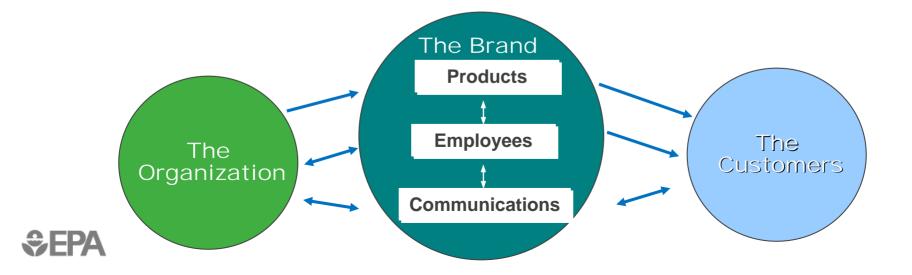
-- people

-- communications

-- services and support -- website

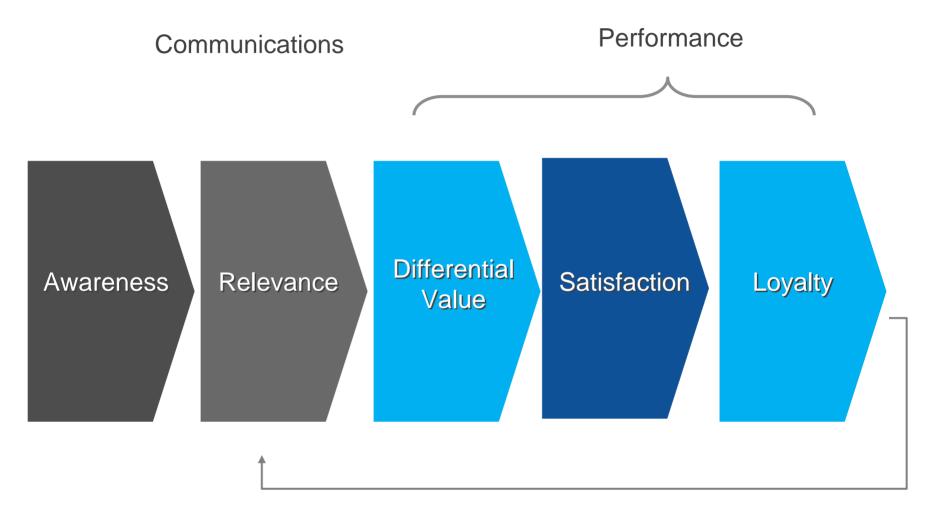
-- R&D

... the list goes on



Loyalty is the goal







50+ Product Categories Are Covered by ENERGY STAR in the US



Heating & Cooling

Central AC Heat pumps Boilers **Furnaces** Ceiling fans Room AC Ventilating fans

Office **Equipment**

Computers **Monitors Printers** Copiers Scanners Fax machines Multi-function devices

Home **Electronics**

Battery chargers Cordless phones **Answering** machines TV/VCRs **DVD** products Home audio External power adapters **DTAs**

Appliances

Clothes washers Dishwashers Refrigerators **Dehumidifiers** Air cleaners Water coolers

Lighting

CFLs Residential light fixtures Exit signs

Commercial **Food Service**

Refrigerators Freezers Fryers **Steamers** Vending machines

Home Envelope

Home sealing Roof products Windows/Doors

ENERGY STAR label on products











Clear process for Setting/Revising ENERGY STAR Specifications



- Criteria weighed when developing or revising ENERGY STAR product specifications:
 - Significant energy (GHG) savings will be realized on a national basis.
 - Product energy consumption and performance can be measured and verified with testing.
 - Product performance will be maintained or enhanced.
 - Purchasers of the product will recover any cost difference within a reasonable time period.
 - Specifications do not unjustly favor any one technology.
 - Labeling will effectively differentiate products to purchasers
- Documented Agency guidance
- Strive for top 25 percent of product models (not sales) but key criteria can trump that goal
- Use a well documented process (see chart) for transparency

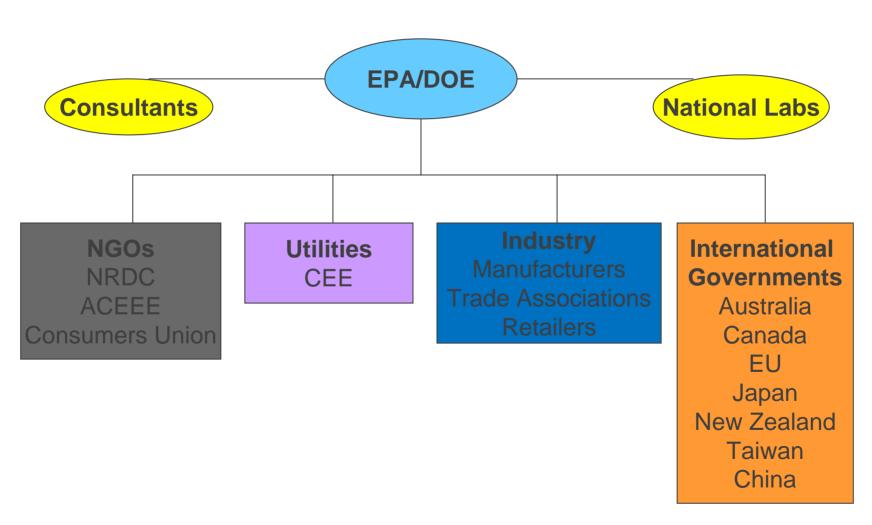
Specification Development Cycle





Negotiations with Stakeholders







WIW: Important Process Elements



Consistency

Follow steps, notify stakeholders

Transparency

- Post all documents and stakeholder comments (with permission) on web
- Create and post a decision memo at the end of the specification development process explaining each decision point and documenting what happened and when

Inclusiveness

 Trade associations, manufacturers, laboratories, utilities, NGOs and international governments

Responsiveness

 Acknowledge receipt of all comments, and respond promptly to questions and/or requests for meetings/conference calls

Clarity

 Provide comment boxes below any proposed changes on draft specifications that outline reason for edits/changes; include line numbers on all draft specifications for easy reference



Changing Consumer Behavior

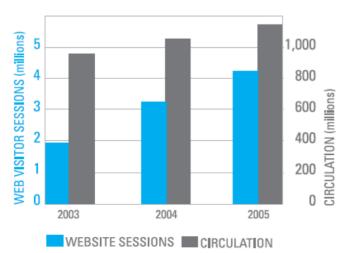


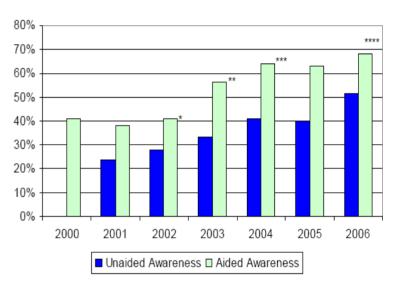
- Educate Consumer
 - Second price tag (life cycle costs)
 - Environmental choice
 - Credible source
- Partner with Retailers
 - 1,000 partners representing 23,000 storefronts
 - Bring information to the consumer at point of purchase
- Partner with utility/efficiency program sponsors
 - More than 500 utility partners (represent 60% of US customers)
 - 30 state partners
 - Leverage ENERGY STAR platform to extend energy efficiency programs
- Partner with new home builders
 - Regional markets
 - More than 50% market share in some areas
 - ___ 3,500 active builders around the country

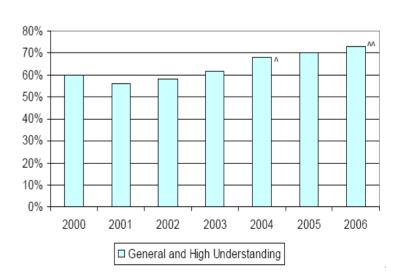
Building Demand: Outreach critical to environmental results



- Specifications are a foundation
- People must ACT to achieve environmental benefit
- EPA devotes substantial resources to outreach with strong results
 - Annual outreach strategy
 - Media reach of 1 billion plus per year
 - 6 million web visits per vear









Retail partners







SAVE MONEY ALL YEAR WITH THESE ENERGY SAVING IDEAS

AUTOMATED MOTION SENSORS, TIMERS, DIMMERS AND ENERGY SAVING LIGHTBULBS CAN HELP YOU SAVE ON YOUR UTILITY BILLS



Just look for ENERGY STAR and other ways to save energy



Improving Home Improvement

Grab the remote and chill out!

CHICEE

If you happen to find a lower price, we'll match it PLUS take off an additional 10%!

Look for the Energy Star® label when you make your next purchase.

Energy Star® helps you make energy-efficient choices that save money on your utility bills by using less energy, while still providing you with all the features you want.

Save money, save energy and help protect the environment by purchasing Energy Star® labeled products at Lowe's.

Air conditioning purchase and installation tips to save you energy

- · Buy the right size equipment
- · Hire a professional for installation Lowe's installs window air conditioning units!

For more tips and tools to help you create a cool and comfortable home, visit Energy Star online at





6000 Btu Electronic Air Conditioner

* 11.0 energy efficiency rating - Energy Star® qualified *3 fan/ 3 cooling speeds * Rest easy remote control * Comfort touch control

* 12 hour on/off timer * Library Quiet - ultra quiet operation #183179



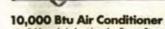
We also have a wide selection

and purchase

portable fans and

air conditioners

online!



Available exclusively at Lowe's * Energy Star saves \$269

10% energy * 10.8 energy efficiency ratio #188246

*40 pints per day *7.5 cmps *Accubry* system *Automatic descer *2 speed fan *Bucket full indicator light (AD400SI) #196859



25 Pint

*25 perts per day *4.9 cmps *AccuDry* system *1 speed fon *EZ-Empty fronti-removable bucket *Bucket full indicator light (AD258BL) #196862

\$988

Window A/C Viny Side Panel Kit

*Replaces old, cracked or form side panels *2 flexible panels each expand to fit openings to 21"H x 12"W #110445



Light Duty Window A/C

Support • Lood rated to 80 lbs.

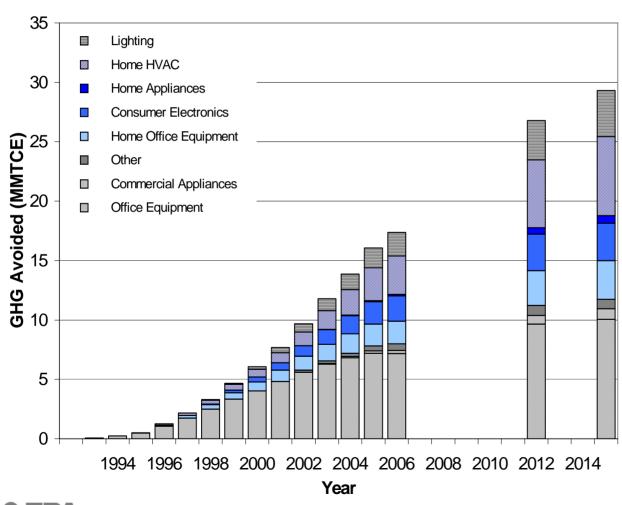
*Typical range 5,000 10,000 ftu #54549





On Track to Meet Future GHG Reduction Goals





Priority Areas:

- lighting
- HVAC
- Consumer electronics (and power supplies)
- Office equipment
- Commercial food service



Protecting Integrity of ENERGY STAR Label



- Self-certification program
- Similar to other U.S. self-certification programs
 - National appliance standards program
 - FTC EnergyGuide label
- Self-certification programs relied on to work under certain circumstances
 - Competitive market place
 - Active consumer groups (Consumer Reports)
- EPA monitors use/protects integrity of brand
 - Information on products and appropriate logo use required as condition of partnership
 - Routine checking of manufacturer submitted information
 - Selective product testing
 - Pulling from retail shelves twice annually
 - Receiving customer calls
 - Manufacturer information on competitors
 - Designed supplemental testing program for problem areas -- lighting products
 - Track all advertisements (reports monthly)
 - All printed press coverage—daily, monthly
 - Web report –qtly
 - Insure correct use of mark: all violations dealt with; coordinate with EPAs Office of General Counsel



Goals for the future



- Triple carbon savings by 2012 (from 2000).
 - From 16 MMTCE to over 50
- Build consumer awareness of, and loyalty to, the brand
- Motivate consumers and build demand
- Maintain meaning/integrity of label on full suite of products
 - Quality, cost-effective, relevance
- Enhance partnership with utilities and energy efficiency program sponsors
- Reduce costs of assisting partners to expand program
 - Need to manage more products
 - Need to manage more builders / new homes
 - Need to manage more commercial and industrial partners
- Build home improvement beyond products
 - Duct sealing, home sealing, whole home performance are big opportunities
- Transform C&I approaches



Whole building approach, many building types, also Industrial

Challenges



- Working with stakeholders
- Market data
- Outreach through public service announcements
- Constant innovation
- Invention of EPA but property of others
- Self certification
- Limited resources



Lessons learned



- Analytical underpinnings are key
- Do research; understand the market and issues
- Strong value proposition is key
- Use competition and the market to your favor
- Acknowledge mistakes and learn from them
- Try it
- Partnerships can deliver great results
- Rome (and ENERGY STAR) was not built in a day





THANK YOU!

