

Pfizer Inc

Climate Change and Energy Program

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Overview of Presentation

- Pfizer Inc: Who We Are
- Why Pfizer Has a Climate Change and Energy Program
- What Pfizer is Doing: Our Program
- Opportunities to Drive More Energy Savings Measures and Technologies
- Challenges

Pfizer Inc - Background

Company Profile

- Founded 1849 in Brooklyn, New York
- Headquartered in New York City
- Nine (9) Pfizer drugs exceeding \$1 Billion in sales (2006)
- World's largest-selling medicine, Lipitor, to lower cholesterol
- Revenue \$48.4 billion (2006)

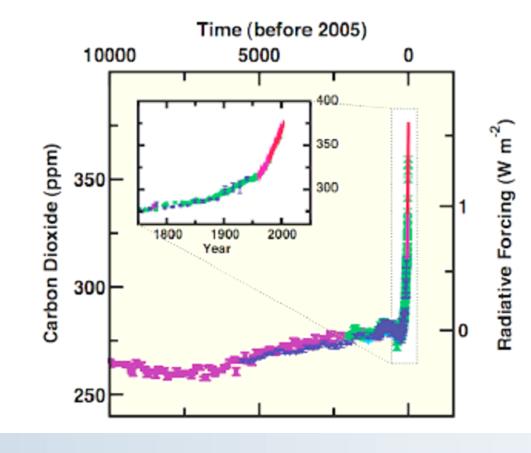
Global Scale

- World's largest pharmaceutical company
- Operations in 150 countries
- 106,000 employees worldwide (2005)
- 8 State-of-art R&D campuses
- \$7.6 billion in R&D (2006)
- 60 manufacturing facilities in 30 countries

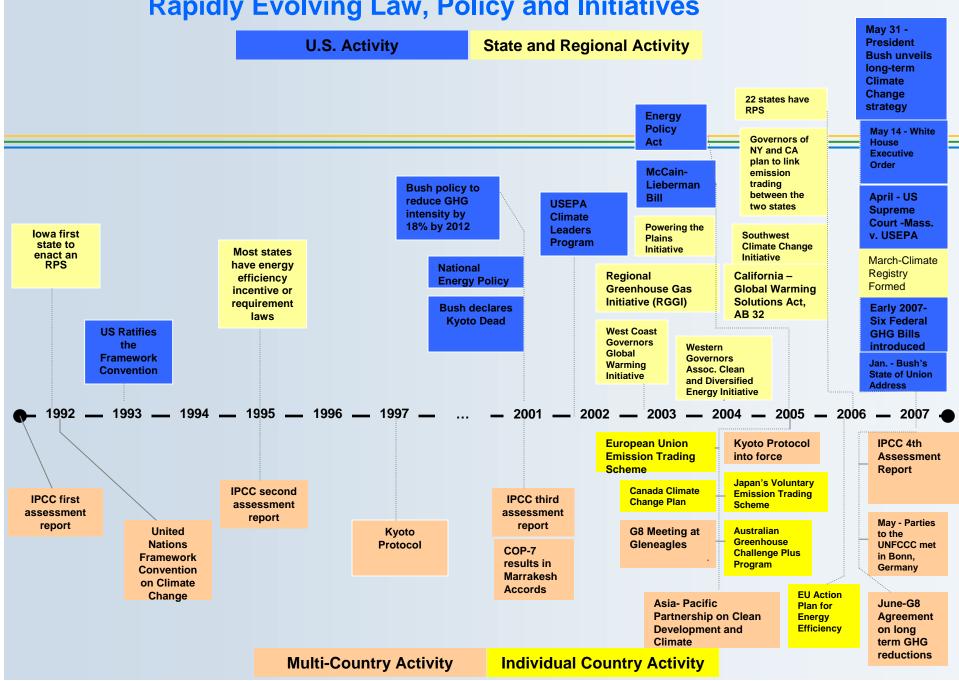
Why Pfizer Has a Climate Change and Energy Program

- Pfizer is a science-based company, and we recognize that man's activities are contributing to Climate Change
- As a leading health care company, we are concerned that Climate Change has the potential to adversely impact the health of hundreds of millions of people around the world
- The law in this area is evolving rapidly and presents both opportunities and risks
- Pfizer believes that energy efficiency improvements offer significant cost savings opportunities, which can be enhanced by factoring in the worth of carbon

Science: Changing Atmospheric CO₂ Concentrations



Source: IPCC, 2007



Rapidly Evolving Law, Policy and Initiatives

Pfizer's Climate Change and Energy Program - Program Objectives

- The **Program** is aimed at:
 - Reducing Pfizer's GHG emissions
 - Minimizing the cost and operational restrictions arising from a carbon constrained environment
 - Preparing for business and operational impacts resulting from physical changes caused by a warming global climate

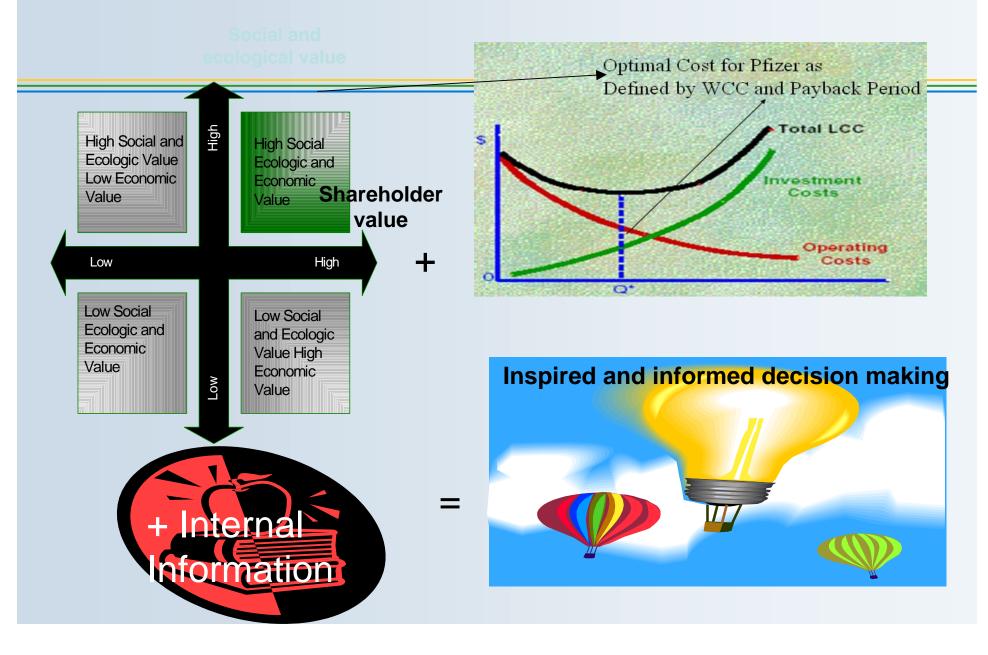
Pfizer's Climate Change and Energy Program - Demand Side Management

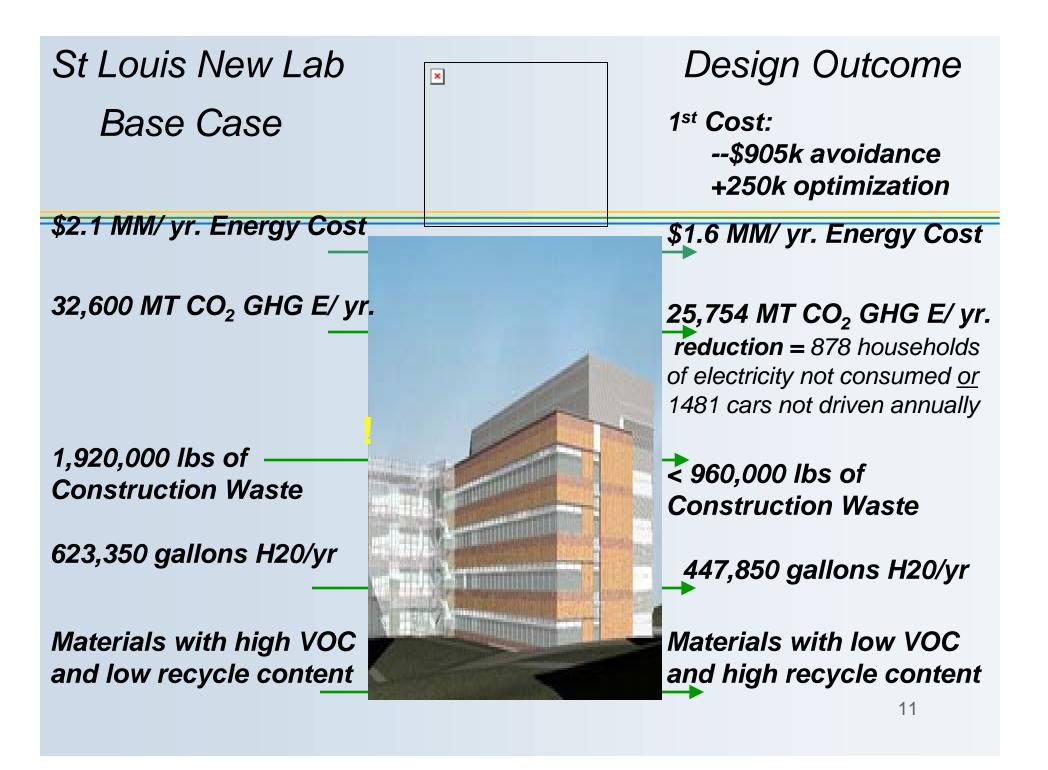
- Reduction of Energy Use through Demand Side Management:
 - Energy Conservation Guideline since 1996 with energy audits required and performed at most facilities
 - Guidance and tools for reducing demand provided on an internal climate change and energy website
 - Corporate support (Director of Climate Change and Energy) and coordination of regional energy teams and conservation projects
 - Worldwide tracking of energy use and GHG emissions (using WRI GHG Protocol)
 - Established corporate goal to reduce GHG emissions by 35% per million dollars of sales by 2007 from base year 2000.

Pfizer's Climate Change and Energy Program - Demand Side Projects

- Categories of Energy Projects
 - Green Building Program
 - Utility optimization
 - Re-lighting, HVAC optimization (significant effort in R&D labs and research space)
 - Process Optimization:
 - Lean Manufacturing and Continuous Processing
 - Green Chemistry

Internal Green Building Program

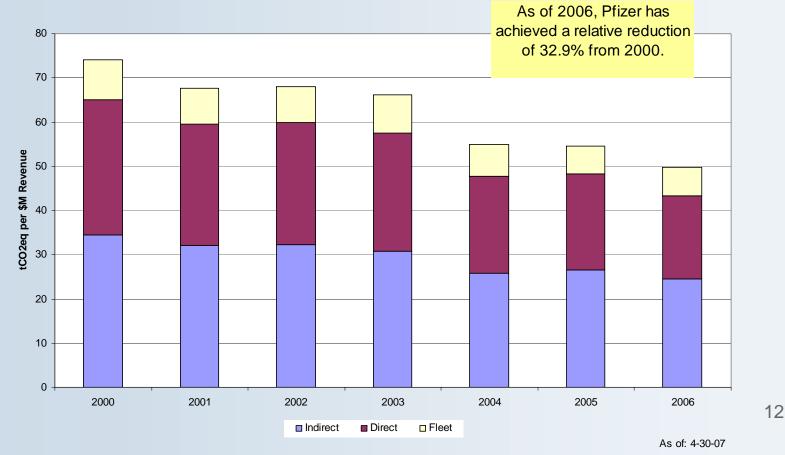




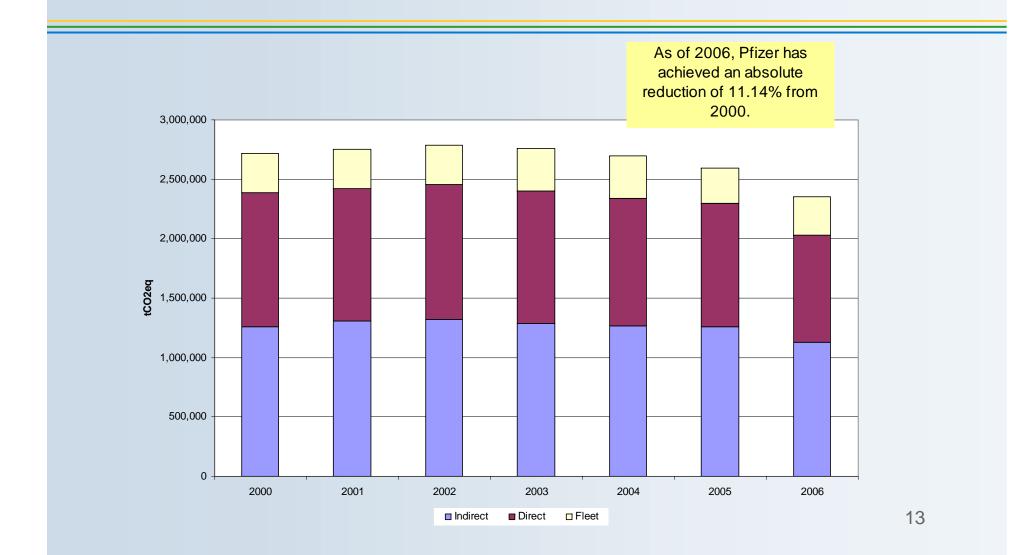
Pfizer's Climate Change and Energy Program - GHG Reduction Goal

Public Goal: To reduce GHG emissions by 35% per million a\$ of sales

by 2007 from the baseline year 2000.



Pfizer's Climate Change and Energy Program- GHG Absolute Reductions

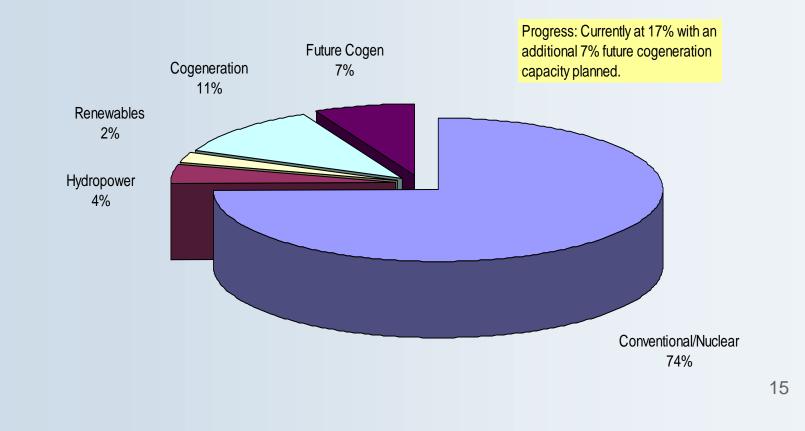


Pfizer's Climate Change and Energy Program - Supply Side Management

- Reduction of Energy from Fossil Fuels through Supply Side Management:
 - Development of guidance and tools for the procurement of clean energy
 - Support of clean energy projects at facilities including co-generation and photovoltaic cell use
 - Establishment of and monitoring progress of company wide goal to increase use of clean energy
 - Meet 35% of electricity needs by 2010 through the use of "clean" energy technologies, such as co-generation and wind power

Pfizer's Climate Change and Energy Program - Clean Energy Goal Progress

Public Goal: To meet 35% of our global electricity needs by 2010 through "clean" energy sources (e.g., cogeneration, solar, or wind power).



Pfizer's Climate Change and Energy Program - Supply Side Projects

Project	Peak output	Status	Annual CO ₂ saving (tons)	Energy generated (MWh/year)
La Jolla, CA PV	240 kW	Commissioning	250	400
Sandwich, UK Wind		Early design	3262	6897
Vega Baja, PR CHP improvements		Recommended	2204	4800
Singapore CHP	5 MW	Operating	18367	40000
Groton, CT CHP	10 MW	Recommended	37626	79980
Puurs, Belgium CHP	2 MW	Approved	7200	15680
Brown Field Green Energy		Early evaluation		

Pfizer's Climate Change and Energy Program - Other Reduction Opportunities

• Fleet Program

- Working to reduce the impacts of our nearly 27,000 automobiles in North America and Europe
- Emissions represents approximately 10% of our CO₂ emissions
- Conducting a pilot project this year utilizing hybrid sales vehicles

Business Travel

- Completed analysis of our footprint resulting from business travel
- GHG emissions associated with business travel is approximately 231,000 MT CO₂ per year or approx. 8 % of Pfizer's total
- Information is being used to identify reduction opportunities

Pfizer's Climate Change and Energy Program - Carbon Credits

- Management of financial implications and opportunities associated with energy reduction and climate change
 - Generating and securing energy credits including:
 - credits for early reduction
 - energy efficiency credits
 - renewable energy credits
 - Evaluating emission trading opportunities

Pfizer's Climate Change and Energy Program - Accomplishments

- Pfizer has implemented approximately 1,130 energy projects from 2000 through 2006 achieving an ongoing cumulative annual reduction of approximately 235,000 MTs CO₂
- \$30 million in annual savings, a portion of which represents recurring annual savings over the life of the project
- In 2006 alone, 417 conservation projects completed resulting in 69,000 MTs CO₂ reduction
- On track to meeting our Climate Leader's Public GHG Reduction Goal

Opportunities Presented by Domestic Programs

• Electrical Energy Credits (EECs)

- Connecticut and some other states as part of their Renewable Portfolio Standards (RPS) to require electric suppliers to secure a percentage of their supply from renewable sources. Includes the electricity savings created from conservation and load management programs.
 - Pfizer generated and sold EECs associated with energy efficiency project in New London, CT
- Assessing other opportunities to generate and sell EECs which potentially could fund marginal energy projects

Other Domestic Opportunities

• Energy Policy Act of 2005

- Energy Efficiency Project Incentives:
 - Includes various tax deductions for commercial buildings. Up to \$1.80 per square foot of building floor area for buildings that achieve a 50% energy savings target.
- Renewable Energy Incentives:
 - Provides a federal solar tax credit, a business energy tax credit for installation and activation of solar systems between Jan. 1, 2006 and Dec. 31, 2007.

Some Potentially Available State Renewable Energy Incentives

- <u>Connecticut</u>
 - State grants for Clean Energy Projects (Public Act 98-28)
 - Property tax adjustments for property with solar energy systems (Conn. Gen. Stat. Section 12-81(52))
 - Recently enacted amendments to State Energy Act- additional grants and rebates for energy efficiency projects
- <u>California</u>
 - California Solar Initiative- incentives for solar energy systems
 - Emerging Renewables Rebate Program (ERRP)
- <u>New York</u>
 - Green Building Tax Credit (NY Tax Law Section 19 and 210(31)
 - Solar, wind energy system tax incentive (NY Real Property Tax Law Section 477a)
- <u>New Jersey</u>
 - Combine Heat and Power Program
 - Financing options

Challenges

- Carbon Trading Limitations Carbon reductions at domestic facilities generally have little value because of limitations to trade with facilities in jurisdictions with trading schemes
- Many jurisdictions do not provide incentives for cogeneration projects
- Patch-work of domestic requirements and initiatives is a huge internal human resource drain, and the complexity presented by multiple schemes inevitably leads to missed opportunities