

# **What's Required and What's Happening**

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**What You Always Wanted to Know About  
Energy Policy But Were Afraid to Ask**

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Wyndham Lake Buena Vista  
August 18, 2003, 2:30 p.m.**

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# Overview

- **30 Years' of Progress**
- **Energy & Environmental Requirements**
- **Recent Progress**
- **Spotlight on Green Buildings**

# Incredible Progress

- **Since 1970, economy has grown 150%**
- **Key air pollutants have decreased 25%**
- **Toxic releases are down 48%**
- **94% of public drinking water systems are safe**

# Incredible Progress

- Energy use has grown at 1/5 of economic growth
- Renewable energy generation is up 30%
- Our health is improving – life expectancy is a record 77.2 years

**But many challenges remain ...**

# Meeting the Challenges

- **Lead by example**
- **Be a good steward**
- **Be a good neighbor**

# **Federal Environmental Executive**

- **Created by Executive Orders (1991, 1993, 1998)**
- **Promote sustainable environmental stewardship throughout the federal government**

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# Federal Environmental Executive

- **6 priority action areas:**
  - **Waste prevention and recycling**
  - **Green procurement**
  - **Sustainable buildings**
  - **Electronic stewardship**
  - **Industrial ecology**
  - **Environmental management systems**

# **Federal Requirements**

- **Environmental Management**
- **Waste Prevention and Recycling**
- **Green Procurement**
- **Energy**
- **Transportation and Fleets**

# **Environmental Management Systems**

- **EO 13148**
  - **Conduct environmental reviews by Oct. 2001**
  - **Implement EMSs by December 2005**
- **OMB Budget Circular A-11 (2002)**
  - **Include EMS in budget requests**
- **Letter from OMB & CEQ to Cabinet (2002)**
  - **EMS as stewardship and management tool**

# Environmental Management Systems

## Benefits:

- **Compliance**
- **Costs**
- **Liabilities & risks**
- **Prioritize**
- **Performance**

# Environmental Management Systems

## Benefits:

- **Flexible – it's your EMS**
- **Broad – it's not just environmental**
- **Innovative – once you include folks ...**

# **Environmental Management Systems**

## **Progress:**

- **More than 200 facilities have an EMS**
- **19 are ISO 14001 registered**
- **Hundreds more are developing EMS**
- **Interagency team is developing tools and training**

# **Environmental Management Systems**

## **Next steps:**

- **Integrate EMS with efforts to improve compliance and performance**
- **Improve measuring**

# **Waste Prevention & Recycling**

## **RCRA Section 6002 and EO 13101**

- **Each agency must incorporate recycling and waste prevention practices**
- **Meet 35% waste diversion rate by 2005**

# Waste Prevention & Recycling

## Progress:

- 90% of federal offices have recycling
- DOD and DOE recycle/divert > 35%
- Still improving measuring

# Green Procurement

**Goal: Increase and expand markets for the range of green products and services:**

- **Recovered materials & recycled content**

EPA Comprehensive Procurement Guideline products or CPGs  
(RCRA § 6002, EO 13101 & Federal Acquisition Regulations)

- **Energy efficient**

Energy Star, FEMP-recommended, and low standby power products  
(Energy Policy Act, EOs 13123 & 13221 & FAR Subpart 23.2)

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# Green Procurement

- **Renewables**

Federal fleets and renewable or alternative fuels  
(Energy Policy Act, EO 13149 & Federal Acquisition Regs)

- **Biobased**

(Farm Bill 2002 § 9002, EOs 13101 & 13134)

- **Environmentally preferable products**

(EO 13101)

# Green Procurement

## Progress:

- EPA has 54 CPG items
- Spend > \$700 million on CPG
- Improving training
- Improving reporting (FPDS)

# Green Procurement

## Progress:

- **Low-standby power devices to save federal government \$25 million**
- **Renewable energy purchases tripled**
- **Growing trend by states and cities**

# Transportation & Fleets

## Energy Policy Act, EO 13149 & EO 13150:

- **Cut petroleum consumption by 20%**
- **Acquire 75% AFVs**
- **Use alternative fuel**
- **Increase fuel efficiency**
- **Offer mass transportation fringe benefits**

# Transportation & Fleets

## Progress:

- **60% of new vehicles were AFVs**
- **Gasoline consumption is down**
- **Alternative fuel consumption is up**
- **Most have increased fuel efficiency**
- **650,000 federal employees mass commute**

# Building Energy

- **0.4% of the nation's total energy use**
- **Own ~500,000 buildings (3.1 B sq. ft.)**
- **5 agencies = 95% sq.ft, 89% energy**

**DoD, USPS, GSA, DVA, DoE**

# **Building Energy**

## **Energy Policy Act and EO 13123:**

- **Reduce building energy use 30% by 2005**
- **Meet Energy Star building criteria**
- **Use renewables for 2.5% of electric needs**
- **Use best water management practices**

# Building Energy

## Progress:

- Carbon down 2.8 million metric tons
- Energy intensity down 23%
- > 100 federal buildings are Energy Star

# Sustainable Design

## Government-wide policies:

- Energy Policy Act of 1992
- Executive Orders
- EO 13123: “apply [sustainable design] principles to the siting, design, and construction of new facilities.”

# **Sustainable Design**

**6 agencies require LEED (or similar):**

- **EPA**
- **National Park Service**
- **Army**
- **Navy/Marines**
- **Air Force**
- **General Services Administration**

# Sustainable Design

- **OMB's 2002 Circular A-11 encourages LEED & Energy Star**
- **New White House Closing the Circle awards**
- **> 100 federal buildings are Energy Star rated**
- **> 60 federal buildings are in LEED process**
- **7 have been LEED certified already**

# Sustainable Design

## Barriers & Options:

- Research & case studies
- Improve use of life cycle costing
- Work together
- Walk the talk
- Executive order?

# **What's Next?**

## **Environmental Management Systems**

**Lead by example**

**Be a good steward**

**Be a good neighbor**

**Strive for environmental excellence**

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