



It's Not Easy Being Green

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U.S. EPA Region 10

1.



Presentation Outline

- Executive Order 13423
- Region 10's Online Toolkit
- Measuring Results
- Resources
- Questions



Executive Order 13423

- Signed January 24, 2007.
- Sets out goals for agencies to strengthen environmental, energy, and transportation management.
- Implementation through agencies' Environmental Management System (EMS).



EO 13423 Target Areas

- Energy efficiency
- Renewable energy
- Water conservation
- Environmentally preferable purchasing
- Hazardous materials reduction
- Solid waste diversion and recycling
- Green building
- Vehicle fleet management
- Electronics stewardship



Why is it important?

It is about protecting the environment AND meeting our Federal goals and requirements

- **ENERGY:** If the energy efficiency of commercial and industrial buildings in the U.S. improved 10 percent, Americans would save about \$20 billion and reduce greenhouse gases equal to the emissions from about 30 million vehicles.
- **ENERGY:** An office of about 600 workers produces approximately 1292 tons of carbon through their energy usage. Reducing by 10% is equivalent to taking 20 passenger vehicles off the road.



Why is it important?

- **TRANSPORTATION:** If a worker avoided using their car to commute to work just two days a week, greenhouse gas emissions would be reduced by an average of 1,600 pounds per year per worker.
- **WASTE:** By recycling all of its office paper waste for one year, an office building of 700 workers could reduce greenhouse gas emissions by 57 metric tons of carbon equivalent (MTCE), when compared to landfilling. This is the equivalent to taking about 37 cars off the road.

You can make a difference!



Region 10's Online Toolkit

Helping you to meet your environmental and programmatic goals!



Federal Green Challenge

- Launched on Earth Day 2008.
- Region 10 challenged federal facilities to reduce carbon footprint by reducing emissions by 5% in next year in two of four categories: *energy, transportation, waste, and/or water*.
- Online toolkit available at www.federalgreenchallenge.net. Expanded to include all Executive Order 13423 target areas.





Federal Green Challenge: Who can participate?

- All federal facilities within Region 10 (Alaska, Idaho, Oregon, and Washington) are eligible.
- Federal facilities outside Region 10 are encouraged to participate, but will not be eligible for recognition through the Challenge awards program.





Federal Green Challenge: How do you participate?

Step 1. Set Goals.

Step 2. Establish Baseline.

Step 3. Work Toward Goals.

Step 4. Measure Results.

Step 5. Get Recognized.



Step 1. Set Goals.

Set a goal of at least a 5% reduction to be achieved in the next year in two of the four challenge focus areas:

1. Energy
2. Transportation
3. Waste
4. Water



Step 2. Establish Baseline.

- Your baseline can be for 2006 or 2007.
- Example. Energy focus area: Determine total usage in 2006 or 2007 of KwHs electricity, cubic feet natural gas, gallons fuel oil, and renewable energy.



File Edit View Insert Format Tools Data Window Help Adobe PDF

Type a question for help

89% Tahoma

Reply with Changes... End Review...

FEDERAL GREEN CHALLENGE						
FACILITY INFORMATION						
1						
2	FACILITY INFORMATION					
3	Facility Name					
4	Address					
5	City					
6	State					
7	Zip Code					
8	Federal Green Challenge Contact Name					
9	Phone Number					
10	Email Address					
11	Facility Square Footage					
12	Facility Description (e.g., Office, Military Base, Hospital, ...)					
13	Number of Employees					
14						
15					Projected	Actual
16	2006 or				CO2 Reduction	CO2 Reduction
17	2007 Baseline	Reduction Goal	Actual Reduction		<i>based on goal</i>	
18					<i>pounds of CO2/year</i>	
19	ENERGY - For a more exact calculation, use the GHG Protocol Indirect CO2 Emissions from Purchased Electricity, Heat, or Steam Calculator at http://www.ghgprotocol.org/calculation-tools/all-tools				<i>You may enter your self-calculated CO2 pounds per year reduction in green cells.</i>	
20	kWhs Electricity Used per Year		5.00%	10.00%	0	0
21			0	0		
22	Thousand Cubic Feet Natural Gas Used per Year		5.00%	10.00%	0	0
23			0	0		
24						
25	Gallons Fuel Oil Used per Year		5.00%	10.00%	0	0
26			0	0		
27						
28	% Renewable Energy* Purchased		5.00%	10.00%	0	0
29	* do not result in CO2 emissions (e.g., wind or solar)		0	0		
30	<i>goal is to increase purchases 5%</i>					

Step 3. Work Toward Goals.

- Work toward meeting your goals for at least 1 year.
- A web-based toolkit is available to help you at www.federalgreenchallenge.net

or

www.epa.gov/r10earth/federalgreenchallenge.htm





Region 10: the Pacific Northwest

Serving the people of Alaska, Idaho, Oregon, Washington and Native Tribes

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You are here: EPA Home » Region 10 » Ecosystems & Communities Page » Federal Green Challenge » FedGreenEnergy

- Region 10: the Pacific Northwest
- About Region 10
- A to Z Subject Index
- Topics and Programs
 - Air
 - Cleanup
 - Compliance Help
 - Enforcement
 - Environmental Assessment
 - Toxic Substances
 - Waste & Recycling
 - Water
- Regional Priorities
- For Kids

Federal Green Challenge - Energy

On this page:

- [Set Your Goals](#)
- [Partnership Opportunities](#)
- [Set Baseline](#)
- [Actions to Achieve Goals](#)
- [Measuring & Tracking](#)
- [Awards](#)
- [Case Studies](#)
- [Additional Resources](#)



Set Your Goals - Energy

Executive Order 13423

- Improve energy efficiency through reduction of [energy intensity](#) by:
 - 3% annually through the end of FY 2015; or
 - 30% by the end of FY 2015, relative to the FY 2003 baseline.
- Generate [renewable energy](#) on site for agency use, to the extent feasible; and
- Ensure that at least 50% of the statutorily required renewable energy consumed in a fiscal year comes from [new renewable sources](#).

Green Challenge Target Areas

- [Transportation](#)
- [Waste](#)
- [Water](#)
- [Homepage](#)

Fast Facts

- Replacing a regular light bulb with a compact fluorescent one saves 150 pounds of carbon dioxide each year. Compact fluorescent lamps

Step 4. Measure Results.

- Measure your results at year end.
- Use the results tracking form to report your results. It estimates:
 - Total pounds CO₂ reduced;
 - Carbon equivalents for total pounds CO₂ reduced; and
 - Estimated cost savings.



	A	B	C	D	E	F
69	Describe Activity and Metric.					
70						<i>Please provide your calculation, if possib</i>
71						
72	Total Estimated Pounds CO2 Reduced					
73	<u>Projected</u>					<u>Actual</u>
74	50,113					94,935
75						
76	Carbon Equivalents for Pounds CO2 Reduced					
77	Equivalent to:	<u>Projected</u>	<u>Actual</u>			
78	Annual Greenhouse Gas Emissions from	4	8	Passenger Vehicles		
79	CO2 Emissions from	2,580	4,887	Gallons of Gasoline Consumed		
80	Annual CO2 Emissions from Electricity Use for	3	6	Homes		
81	Carbon Sequestration from	583	1,104	Tree Seedlings Grown for 10 Years		
82						
83	Total Estimated Cost Savings					
84	<u>Projected</u>					<u>Actual</u>
85	\$9,401.15					\$15,668.30
86						
87						
88						
89						

Step 5. Get Recognized.

- Get recognized through the *Champions of Environmental Leadership and Green Government Innovation* recognition program.
- Recognition will include publicizing your achievement, a plaque commemorating your activities, and a recognition of achievement ceremony in early September.



2008 Recognition

- 5 Acknowledgements of Achievement
Energy, Transportation, Waste, Water, and
Environmental Leadership
- Eligibility Requirements
 - Facility must be beyond compliance;
 - Facility must be a Federal Green Challenge Partner;
 - Facility must have measurable and verifiable results.

**Nomination Submission Due
August 1, 2008!**



2009 Recognition

- 5 Awards of Achievement
Energy, Transportation, Waste, Water, and Environmental Leadership
- Eligibility Requirements:
 - Facility must be beyond compliance;
 - Facility must be a Federal Green Challenge Partner that reported results by August 1, 2009; and
 - Facility must have measureable and verifiable results sufficient to nominate in two of the four categories: Energy, Transportation, Waste, and/or Water.

**Nomination Submission Due
August 17, 2009!**



Key Dates

- **August 1, 2008** – 2008 Recognition Program Nomination Submission Deadline
 - Champions of Environmental Leadership and Green Government Innovation 2008 Recognition Program
- **September 25, 2008** – Commitment, Recognition and Education Event
 - Ceremony to recognize founding partners, recognize Champions and to educate leaders. Registration and goals due by September 10, 2008.
- **August 1, 2009** – 1 Year Anniversary
 - Submit your results to be eligible for recognition.
- **August 17, 2009** – 2009 Recognition Program Nomination Submission Deadline
 - Champions of Environmental Leadership and Green Government Innovation 2009 Recognition Program



Why is measuring so important?

- Measuring allows you report your results.
 - Your agency cares.
 - It is required by OMB.

AND

What you measure is what you get.

We want to get more
environmental results



EO 13423 Target Areas

- EMS – Green Challenge Toolkit
- Energy efficiency – Green Challenge Toolkit
- Renewable energy– Green Challenge Toolkit
- Water conservation– Green Challenge Toolkit
- Environmentally preferable purchasing – under development
- Hazardous materials reduction– under development
- Solid waste diversion and recycling– Green Challenge Toolkit
- Green building– under development
- Vehicle fleet management– Green Challenge Toolkit
- Electronics stewardship– under development

Toolkit available at www.FederalGreenChallenge.net



Resources

- Federal Energy Management Program

<http://www1.eere.energy.gov/femp/>

- FedCenter

<http://www.fedcenter.gov/>

- Office of the Federal Environmental Executive

<http://www.ofee.gov/>



Sign up now for the Federal Green Challenge!

- Submit your registration form.
 - If you are not from Alaska, Idaho, Oregon or Washington, we will forward your information to your regional representative
 - Forms and tools available at www.federalgreenchallenge.net
- or
- www.epa.gov/r10earth/federalgreenchallenge.htm
- Email to R10FederalGreenChallenge@epa.gov or fax to Vicky Salazar at (206) 553-8509.



Federal Green Challenge: Upcoming Event!

- Informational Conference Call

Tuesday, July 15th

1 to 2:30 p.m.

Call-in: (866) 299-3188

Access: 899999



Federal Green Challenge Team

Federal Green Challenge Team

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