

Federal Green Challenge

Federal Agencies Leading by Example
in Sustainable Operations



epa.gov/fgc



Presidio Trust, San Francisco



Overview

- What is the Federal Green Challenge?
- How to participate.
- Benefits.
- What you can do.
- Success Stories.

EPA mission:

To protect human health and the environment.



EPA's first Administrator, William Ruckelshaus



1971-2016: Cut air pollutants by 70%



93% compliance with drinking water standards.



>9 million tons of virgin materials avoided.





US Federal Footprint Data

We can make a difference!

The Federal Government:

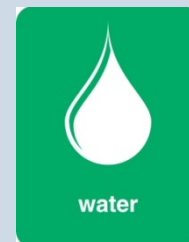
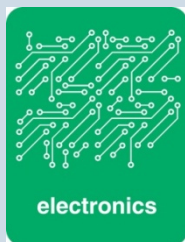
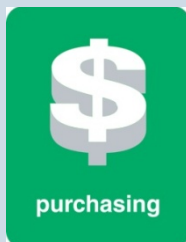
- Nation's largest vehicle fleet operator.
- One of the largest IT purchasers.
- Largest purchaser of goods and services in the U.S.
- Controls a real estate portfolio of more than 330,000 buildings.





What is the Federal Green Challenge (FGC)?

- The federal component of EPA's Sustainable Materials Management Program.
- Challenges federal facilities to commit to a minimum 5% annual sustainability improvement in two of the six target areas (at least one must be waste, purchasing or electronics):





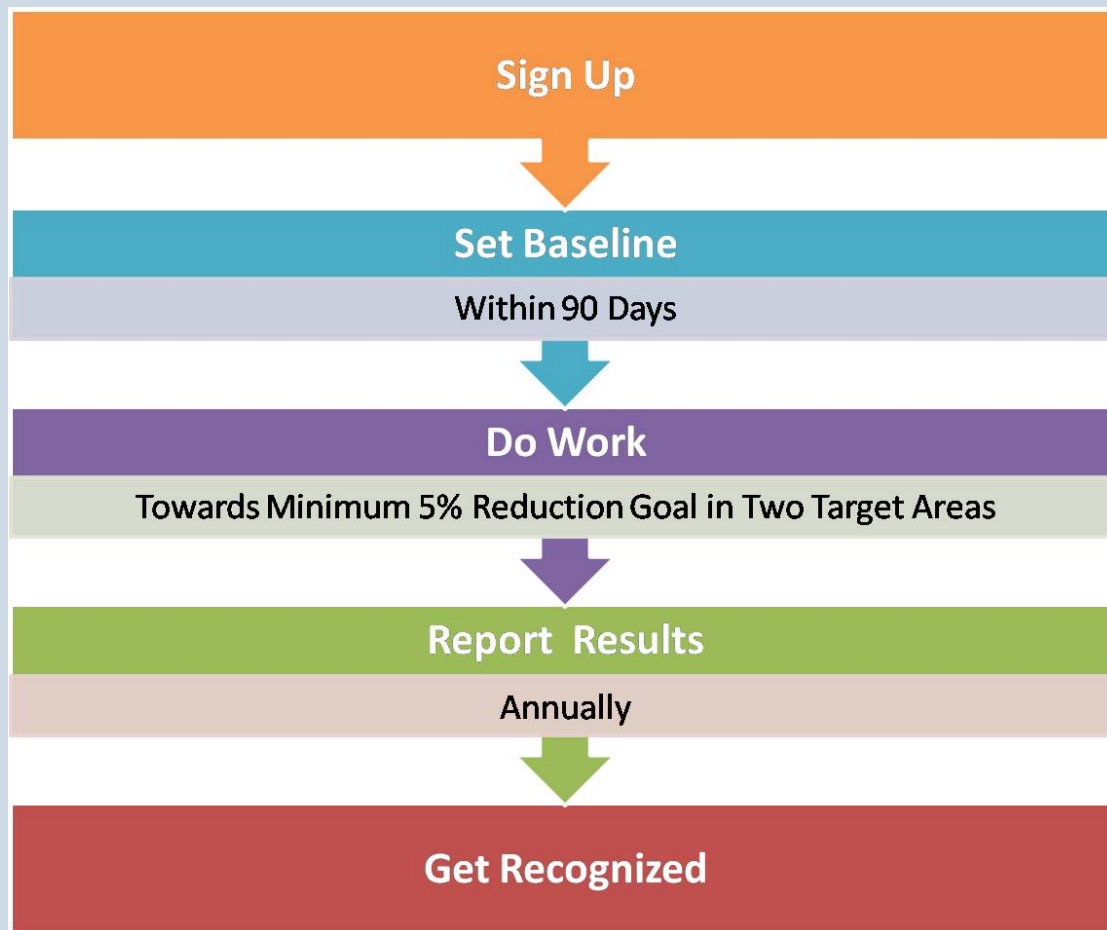
Who can Join?

- ✓ Any federal entity or location
- ✓ An office or a floor of a building
- ✓ Multiple offices or floors in a building (i.e. green team)
- ✓ A building or facility
- ✓ A campus/base with multiple buildings/facilities
- ✓ A region
- ✓ An agency





How to participate in FGC



epa.gov/fgc

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Baseline Form

Waste/Materials Target Area

Waste/Materials

Baseline Year:

Select Year

(The recommended baseline year is the year of Federal Green Challenge registration. If data is not available for the registration year, an earlier baseline year may be used. A recent baseline year is preferred.)

Reuse

Please select a material in the drop-down box below and then click "Add"

	SOURCE	ACTIVITY	MATERIAL	AMOUNT	UNIT	TONS	MEASUREM ENT METHODOL OGY	COMMENTS /ACTIVITY DESCRIPTI ON	NEXT YEAR'S GOAL (% INCREASE)	
1	Select <input type="button" value="v"/>	Select <input type="button" value="v"/>	Select <input type="button" value="v"/>	<input type="text"/>	Select <input type="button" value="v"/>	<input type="text"/>	Select <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="x REMOVE"/>



Awards & Recognition



Data Driven and Narrative Awards

- Data Driven – at **National Level** and **Regional Level** for greatest improvement in each of the 6 target areas.
- Narrative – 3 Awards at the Regional Level for
 1. Education and Outreach
 2. Leadership
 3. Innovation



FGC Benefits

Federal Green Challenge [Share](#) [Contact](#)

Join the FGC
[Why and How to Join the Federal Green Challenge](#)



1 2 National Renewable Energy Laboratory in Golden, CO

What's New

- [EPA Recognizes 290 Federal Facilities](#)
- [Executive Order 13693: Federal Leadership on Climate Change and Environmental Sustainability](#)
- [Pollinator Habitat Enhancement Metric](#)

About the Federal Green Challenge (FGC)

The Federal Green Challenge, a national effort under the EPA's Sustainable Materials Management Program, challenges EPA and other federal agencies throughout the country to lead by example in reducing the federal government's environmental impact.

- [Learn About the FGC](#)
 - [Executive Order 13693: Planning for Federal Sustainability in the Next Decade](#)
- [Join Now](#)
 - [Steps to Join the FGC](#)

FGC Target Areas

Federal agencies are challenged to make improvements in these areas:

-  [Waste](#)
-  [Electronics](#)
-  [Purchasing](#)
-  [Energy](#)
-  [Water](#)
-  [Transportation](#)

- Maximize resources & improve efficiencies; potentially save \$\$.
- Measurement system for achieving your sustainability goals.
- EPA technical assistance and resources:
 - Online toolkits, webinars, peer networking.
- Get recognized!



What can you do?

Waste/Materials (reduce, reuse, recycle)

- Increase the amount and what materials or products are recycled, such as organics.
- Create and distribute documents electronically
- Sustainable Management of Food

Purchasing (products and services)

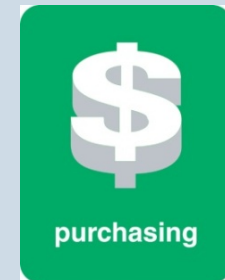
- Expand green purchasing and cleaning policy
- Plant pollinator habitat



Photo: USDA



Photo: U.S. Forest Service



EPA & USDA



[NATION'S FIRST-EVER FOOD WASTE GOAL]

CUT FOOD WASTE IN HALF BY 2030

www.epa.gov/sustainable-management-food/united-states-2030-food-loss-and-waste-reduction-goal

Poll Question

- Select the sustainable management of food activities at your facility:
 - Measurement and tracking of excess food
 - Source reduction (food waste prevention)
 - Surplus food donation
 - Food scraps to animals
 - Anaerobic digestion and/or composting



The federal government is a significant purchaser, server, and contractor of food and food services

- Military (Dining Hall/General Messes), Exchange Food Services, MWR, Hospital Food Service (including VA Medical Centers). Exchange Vending – including Veterans Canteen Services (43,354 outlets, \$4.42 billion).
- Non-Military Federal: DOJ, DOI, DOL, GSA, Amtrak, Smithsonian, Architect of the Capitol (House, Senate, Visitor Center) (1,040 outlets, \$1.23 billion).
- Total: 49,006 outlets, and \$5.653 billion in volume.
- Does not include all agencies, nor USDA's food service support programs, FEMA disaster relief, and other additional programs.

Figures from: Fiscal Year 2015, from *Government Food Service*, October 2016





Legal Basis for Food Donation

- Bill Emerson Good Samaritan Act of 1996 - Encourages individuals or businesses to donate food to nonprofits by minimizing liability.
- Federal Food Donation Act of 2008 - Encourages donation of surplus food to nonprofit organizations that provide assistance to food-insecure people in the U.S. in contracts entered into by executive agencies for the provision, service, or sale of food.
- Under existing U.S. Tax Code (Section 170) - Special rule for contributions of food inventory - corporations are able to deduct wholesome food donations from their tax liability. (applicable to contractors)





What can you do to sustainably manage food?

- Identify and define types of food services provided by your facility.
- Do a food waste audit for your food service areas.
- Establish policies and guidelines for food recovery.
- Use Food Service Contract clauses to support food recovery.
- Establish ties with [local food banks and other community food services](#)
- [Use the Food Service Guidelines for Federal Facilities](#).
- Measure your food recovery.
- Contact EPA – HQ or Regions for more information (through the [Federal Green Challenge](#) or [Food Recovery Challenge](#)).
- Tune in to [EPA SMM Webinars](#) – on food recovery infrastructure, organizations and success stories, etc.



Report your food recovery efforts in the FGC reporting system:

Reduce amount of food going to landfill by:

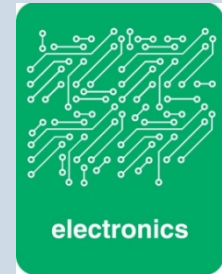
- Reuse:
 1. Feeding People (Food Donation)
 2. Feeding Animals (Food Donation)
- Sell for reuse or recycling (fats, oils, greases)
- Composting



What can you do?

Electronics (equipment and practices)

- Purchase greener electronics (EPEAT.net).
- Recycle electronics through 3rd party certified recyclers.



Energy (facility and tenant practices)

- Install Energy Star-labeled lighting and appliances.
- Set equipment to on-demand operation.





What can you do?

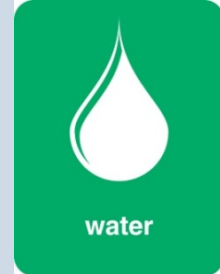
Transportation (travel, vehicles and commuting)

- Encourage bicycling, mass transit, and carpools.
- Reduce fleet miles traveled.



Water (use and equipment)

- Detect and repair leaks as soon as possible
- Install WaterSense-labeled fixtures



EPA Announces Federal Green Challenge 2019 Awards for 2017 Performance

WASHINGTON (August 21, 2019) — Today, the U.S. Environmental Protection Agency (EPA) recognizes federal facilities for conserving resources and saving taxpayers' money as part of the [Federal Green Challenge](#) (FGC). The challenge is a national effort under the EPA's Sustainable Materials Management Program, which encourages federal agencies to lead by example in reducing the federal government's environmental impact.

"EPA is recognizing facilities across the federal government for their leadership in improving waste management, conserving water, and other important efforts to improve environmental outcomes," **said EPA Administrator Andrew Wheeler.** "Their accomplishments not only reduce the federal government's impact on the environment but also save taxpayers millions of dollars."

In fiscal year 2018 (FY18), Federal Green Challenge participants reduced their environmental impact throughout the waste stream process, including: Sending more than 235 tons of end-of-life electronics to third-party certified recyclers.

Reducing transportation costs by nearly \$23 million.
Using approximately 536 million fewer gallons of potable water.
Decreasing paper purchasing by nearly 2,800 pounds.
Diverting an estimated 675,000 tons of waste from landfills.



Federal Green Challenge

National 2018 Results *Participating Agencies:*



Diverted over 675,000 tons of waste from landfills, saving \$37 million.



Consumed 536 million fewer gallons of potable water in FY18 than FY17, saving an estimated \$2.1 million.



Reduced transportation costs by over \$22.6 million compared to FY17.



Sent 235 tons of used electronics to certified third party recyclers.



These combined efforts resulted in an estimated cost savings of \$37 million to U.S. taxpayers.



Success Stories

The Department of Energy, East Tennessee Technology Park(ETTP), Oak Ridge, Tennessee

In 2018 ETTP purchased 859 Electronic Product Environmental Assessment Tool (EPEAT) certified gold level registered equipment.

ETTP is currently tracking the energy use of 100% by having power management enabled impacting 3,243 units.

ETTP recycled 16.20 tons of electronics equipment to a third party certified recycler in 2018.



Electronics

Success Stories

The Department of Energy, East Tennessee Technology Park, Oak Ridge, Tennessee

- Purchased 859 Electronic Product Environmental Assessment Tool (EPEAT) certified gold level registered equipment.
- Recycled 16.20 tons of electronics equipment to a third party certified recycler



Electronics

Success Stories

The Drug Enforcement Agency, Southeast Laboratory, Miami, Florida

- purchased 27 units of EPEAT certified gold level registered equipment and enabled power management monitoring on 98 percent of those units.

A white starburst graphic with a blue outline, containing the word "Energy".

Energy

Success Stories

General Service Administration for Edith Green-Wendell Wyatt

- 57% decrease in natural gas consumption

Army Corps of Engineers – Seattle District

- Reduced energy load
 - 15% reduction of electricity
 - 21% reduction in natural gas



Success Stories

Department of Energy (in collaboration), Lawrence Livermore National Laboratory (LLNL), Livermore, California

- **Government Electric Vehicles (EVs) Pilot**
- **Purchased 10 EVs**
- **Level II Charging Stations**
- **Solar Powered**



Success Stories

The 2017 EV Pilot lead to:

- 8 more charging stations
- 2 more solar powered units installed in 2018.



Purchasing

Success Stories

Department of Veterans Affairs, Manchester Medical Center, Manchester, New Hampshire

- Defaulted its existing multifunctional printers to print duplex and enabled electronic meeting capabilities
- New electronic records management system
- Started a Environmentally Preferable Purchasing and Pollution Prevention Policy (EPP)



Purchasing

Success Stories

The Drug Enforcement Agency, Southeast Laboratory, Miami, Florida

- Started a Green Purchasing Plan and an Integrated Post Management Plan to facilitate green purchasing.
- The facility purchased 100 pounds of printer and copier paper that contained 50 percent recycled content.



Waste

Success Stories

The Drug Enforcement Agency, Southeast Laboratory, Miami, Florida

- recycled 4.11 tons of recyclable material

Bonneville Power Administration

- 63.5% increase of recycled materials and overall 95% diversion rates



Waste

Success Stories

General Services Administration, Fort Worth Federal Center, Fort Worth, TX

- achieved a 97percent diversion rate in FY17

U.S. Department of Energy, Bonneville Power Administration, Portland, OR

- Achieved a 92 percent diversion rate



Water

Success Stories

- **Department of Veterans Affairs, Atlanta
Veterans Affairs Medical Center, Decatur,
Georgia**
- Reduced 1 million gallons through:
 - Waterless and low flow toilets
 - Recycled 4,862 gallons of water with a food pulper
 - Reused 350 gallons of rainwater for landscaping



Water

Success Stories

U.S. Coast Guard, Base Seattle

Reduced 1 million gallons through:

- Waterless and low flow toilets
- Recycled 4,862 gallons of water with a food pulper
- Reused 350 gallons of rainwater for landscaping
- Repaired water flow reducers and leaks (30% reduction)
- Improved Energy Monitoring System (EMS)

Case Study: Recycling in Action

U.S. Army Reserve 9th Mission Support Command, Fort Shafter, Hawaii

- *increased its recycling of municipal solid waste by nearly 180% from 2017 to 2018.*
- Through three successful recycling initiatives.

• Key Topics

- MSW Recycling
- Environmental Outreach & Education

• Results

- 180% in waste diversion
- Increase in recycling of non-conventional MSW

• Facility at a Glance

- Federal Green Challenge participant since 2016.
- Recipient of EPA Region 9 Award: Waste

Case Study: Recycling in Action

- Improved Waste Hauling Contract
- Outreach & Education
- Annual Recycling Event

**RECYCLING INFO –
KAORU MOTO USARC
HAULER: MAUI DISPOSAL COMPANY**

WHAT CAN BE RECYCLED HERE?

Our contracted hauler Maui Disposal collects and processes cardboard, newspaper, office paper, glass, plastic and aluminum. Please place these items inside the small blue containers within the building or inside the provided Maui Disposal Company green carts outside. One green dumpster is dedicated for cardboard only while the green carts accept mixed recycling material. When the green carts are full, please contact Maui Disposal to schedule a pick-up (808) 242-7999.



WHY RECYCLE?

Recycling is a Mandatory Army Directive.

Executive Order 13693, Planning for Federal Sustainability in the Next Decade was signed March 19, 2015 and requires federal agencies to:

- Divert at least 50 percent of non-hazardous solid waste annually.
- Divert at least 50 percent of non-hazardous construction and demolition debris.

We are only recycling 18.9% of our waste.

Support the 9th MSC by recycling every day.



For more information, please contact TSG DPW Environmental at (808) 438-1600 ext. 3246

Case Study: Recycling in Action

Before



After



What are you doing at your facilities?



USPS

-



FGC Contacts

<https://www.epa.gov/fgc/forms/contact-us-about-federal-green-challenge>

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