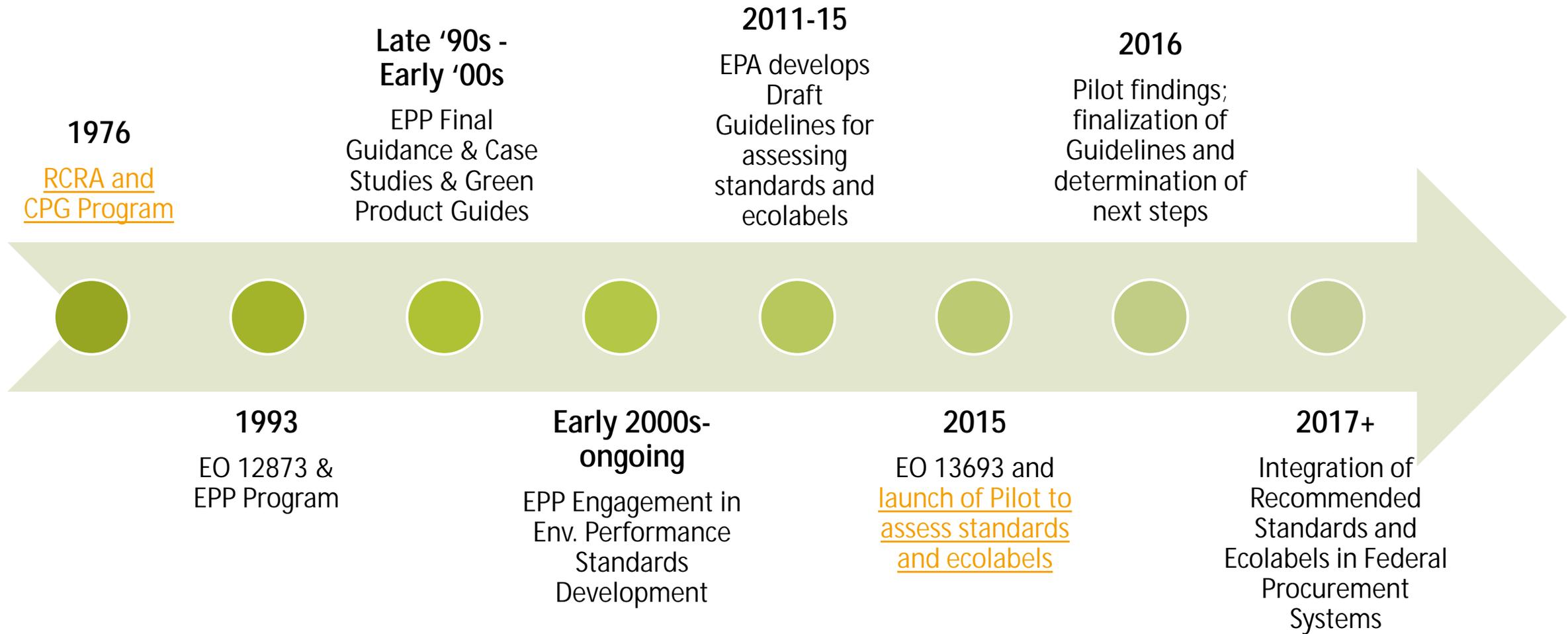


U.S. EPA Recommended Standards and Ecolabels: *Environmentally Preferable Purchasing Program*

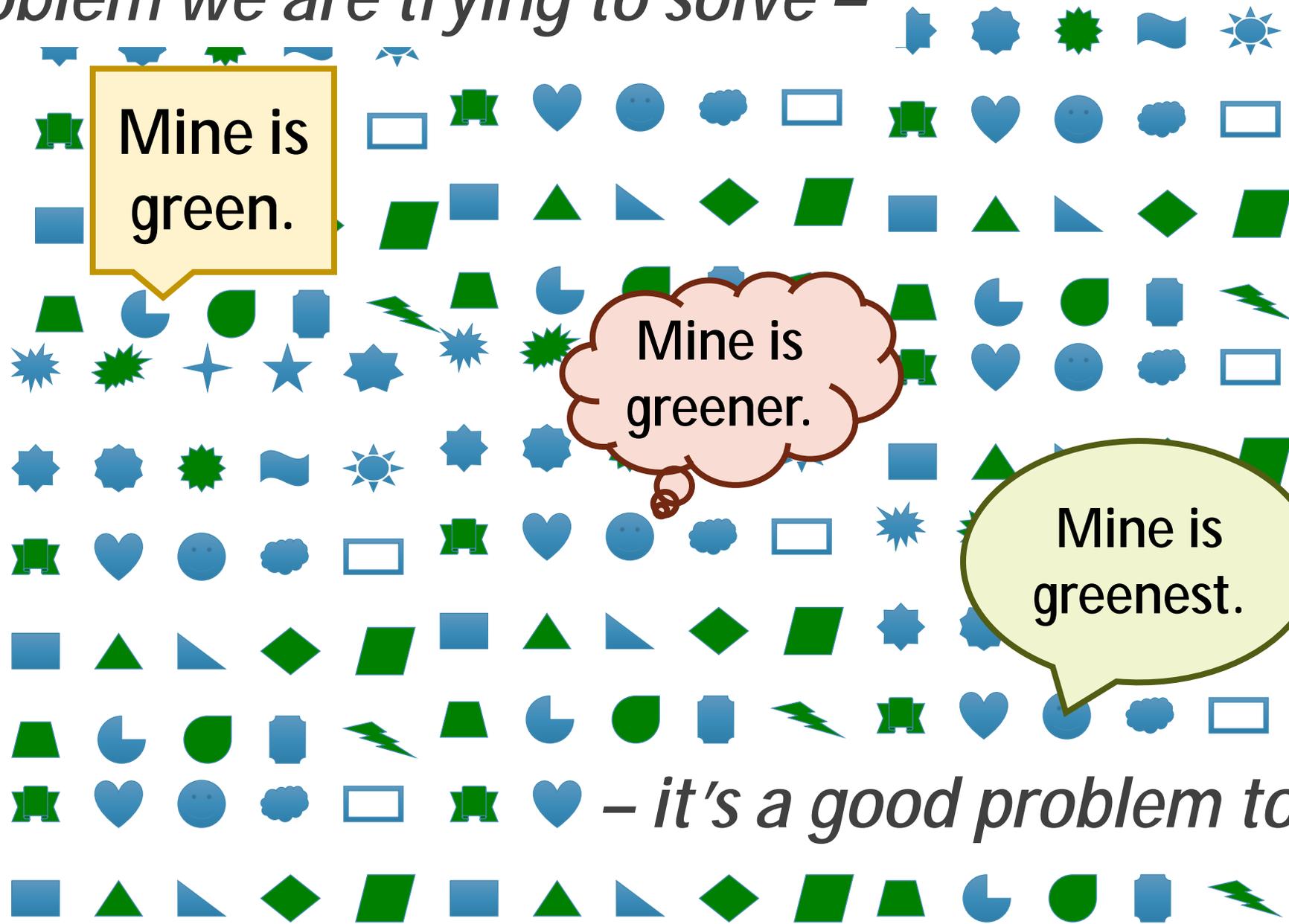
Agenda

- US government standards policy – how we use and participate in standards
- EO13693 and environmentally preferable purchasing
- EPA's Interim Recommendations of standards and ecolabels
- EPA Guidelines Pilot to assess standards and ecolabels
- Brief overview of the Electronics Environmental Benefits Calculator
- More EPA Sustainability Programs
- Your questions...

How we got here...



The Problem we are trying to solve –



Mine is green.

Mine is greener.

Mine is greenest.

– it's a good problem to have!

OMB A119 - January 27, 2016

- Continues USG preference for use of existing voluntary consensus standards over government-unique standards where feasible
- Criteria for choosing and using voluntary consensus standards and other types of standards
- Participating in standards development activities
- Choosing methods of conformity assessment
- Considering international standards and obligations

CIRCULAR NO. A-119, Revised

TO THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES

SUBJECT: Federal Participation in the Development and Use of Voluntary Consensus Standards and in Conformity Assessment Activities

TABLE OF CONTENTS

BACKGROUND

1. What is the Purpose of this Circular?

DEFINITIONS

2. What is a Standard?
3. What is Conformity Assessment?

POLICY

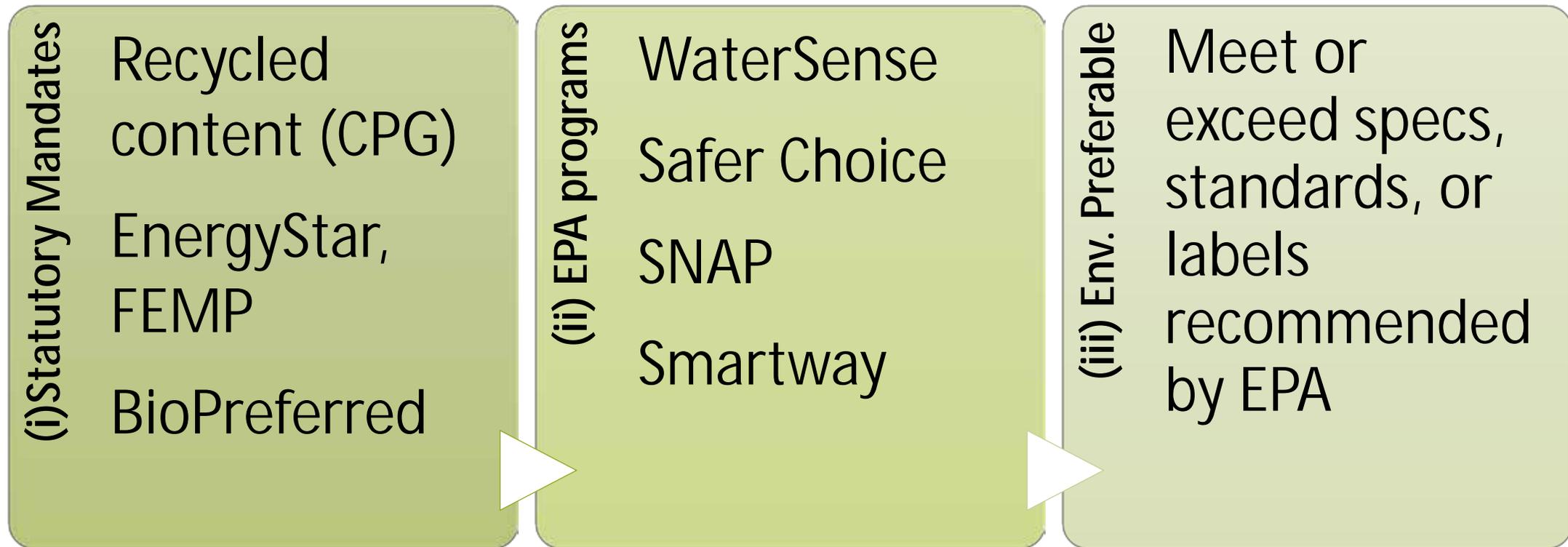
4. To Whom Does This Policy Apply?
5. What is the Policy for Federal Use of Standards?
 - a. When deciding to use a standard, what are some of the factors my agency should consider?
 - b. Does this policy establish a preference between voluntary consensus standards and other types of standards?
 - c. When must my agency use voluntary consensus standards?

Obama Signs Executive Order 13693

March 2015



EO 13693 – 3(i) Sustainable Procurement Requirements



<https://sftool.gov/greenprocurement>

The Goals of the EPA Recommendations

- Leverage existing standards and ecolabels
- Recognize environmental performance that is better than standard industry practice
- Do the hard work for federal purchasers

EPA's Recommendations of Specifications, Standards and Ecolabels

[Executive Order \(EO\) 13693, "Planning for Federal Sustainability in the Next Decade,"](#) promotes sustainable acquisition and [procurement of products and services by federal agencies.](#) Federal procurement actions must include specific environmental performance and sustainability factors to the maximum extent practicable for:

- Meeting statutory mandates requiring purchase preference for recycled content, energy and water efficiency and biopreferred/biobased products;
- Purchasing sustainable products/services identified by EPA programs including Significant New Alternatives Policy (SNAP), WaterSense, Safer Choice and SmartWay; and

Volunteer Your Standard or Ecolabel

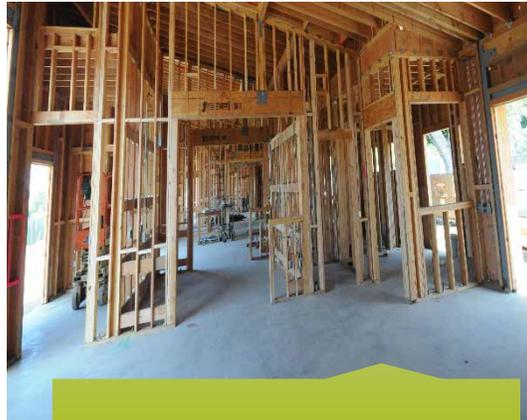
New! April 25, 2016

Interested in having your organization's environmental performance standard or ecolabel recommended to the U.S. EPA for federal government-wide procurement? Is your program applicable to building paints/coatings, flooring and/or furniture? If so, please consider

EPA Interim Recommendations



Cafeteria



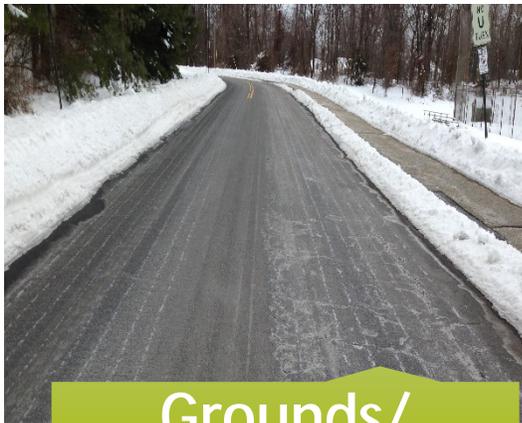
Construction



Custodial



Electronics



Grounds/
Landscaping



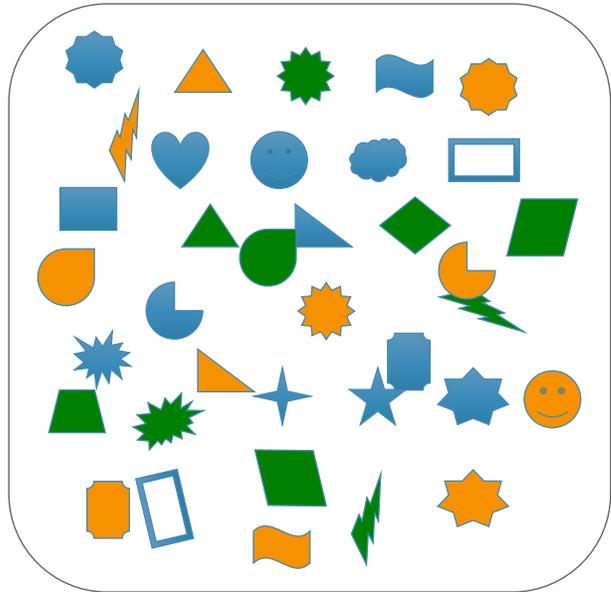
Office



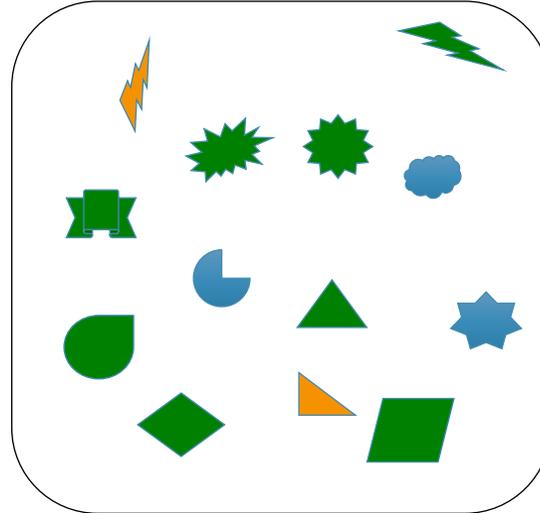
Operations/ Fleet/
Shipping/ Shop

APPROACH TO INTERIM RECOMMENDATIONS

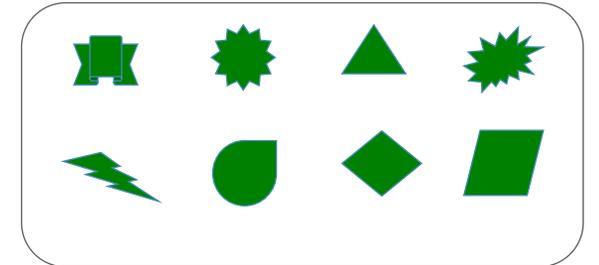
**Universe of Ecolabels
& Standards**



**DOE GreenBuy
Program & GSA PBS**

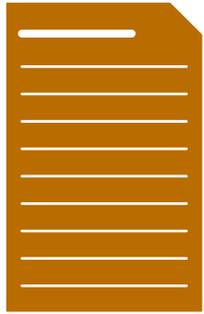
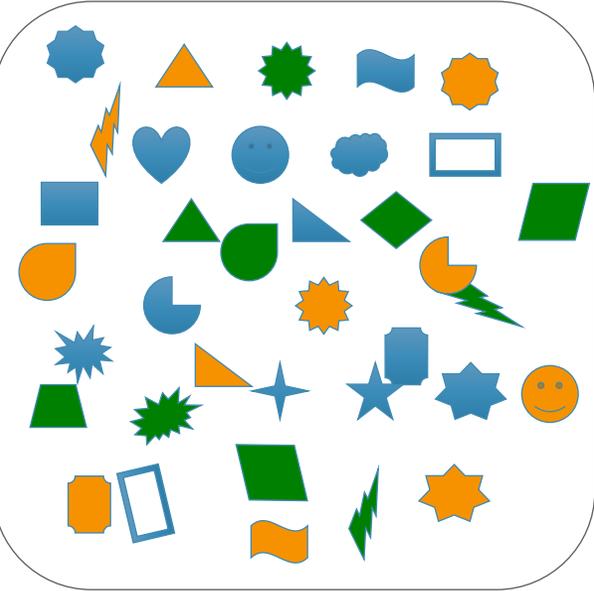


**EPA Recommended
Standards & Ecolabels**

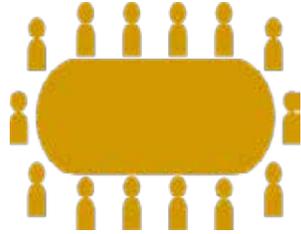


PILOT APPROACH TO RECOMMENDATIONS

Universe of Ecolabels & Standards



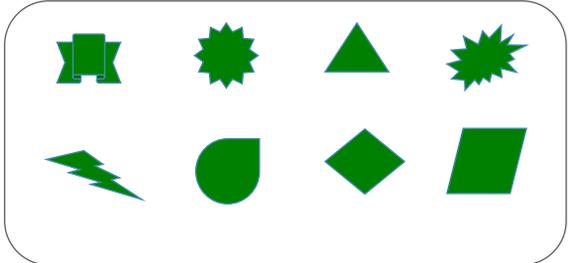
Guidelines
for Standards
& Ecolabels



Criteria
Development



Independent
Assessment



EPA Recommended Standards & Ecolabels

Only SDOs & ecolabels that volunteer for assessment will be included.

Communication to Federal Purchasers: www.epa.gov/greenerproducts

✓ [Electronics](#)

Specifications/Standards/Ecolabels to Use in Federal Procurement

Product Service	Applicable Statutory Requirements	Applicable EPA Ecolabels	Other EPA Recommended Standards and Ecolabels
Computer Desktops, Notebooks (including two in one notebooks), Displays, Integrated Desktop Computers, Workstation Desktops, Thin Clients, and Slates/Tablets	<ul style="list-style-type: none">• ENERGY STAR• Low Standby Power	none applicable	EPEAT Registered (highest rating available) ¹ Exit
Imaging equipment: (Printers, Copiers, Multi-Function Devices, Scanners, Fax Machines, Digital Duplicators, Mailing Machines)	ENERGY STAR	none applicable	EPEAT Registered (highest rating available) ¹ Exit
Televisions	ENERGY STAR	none applicable	EPEAT Registered (highest rating available) ¹ Exit

Pilot Assessment: Volunteers

- In July ~20 organizations submitted approximately 50 standards/certifications/ecolabels for assessment
 - Component-specific (forestry, textiles) and finished product standards
 - Sector-specific standards and standards applicable to multiple product types
 - Multi-impact/lifecycle stage and single-impact/lifecycle stage

For More Information...

- EPA's Greener Products & Services: <http://www.epa.gov/greenerproducts>
- EPP Guidelines Pilot: <http://www.resolv.org/site-guidelines/>
- U.S. policy and information resources on standards: <http://standards.gov>

Electronics Environmental Benefits Calculator (EEBC): Background

- Development funded by EPA
- Purpose: to help any purchasers including businesses calculate the environmental benefits of procuring environmentally sustainable electronic products (EPEAT registered products)
- Launched in 2009 in Excel format
- Updated three times since launch
- Most recently updated and expanded December 2015

With Updated Version, Users can:

- Get access to environmental benefits data more easily via web based format
- Get environmental benefits data for imaging equipment:
 - Color Multi-Function Devices (MFD)
 - Black and White MFD
 - Black and White Laser Printer
- Get current environmental benefits data for computers

Can Anyone Purchasing Greener Electronics Use the EEBC? YES!

- Generate the environmental benefits achieved as a result of your Agency procurement of environmentally sustainable electronic products
- Document the value of purchasing sustainable products

New Links for updated calculator:

- <http://app2.erg.com/EEBC-Computerv4/eebcCalculator.do>
- <http://app2.erg.com/EEBC-Imagingv1/eebcCalculator.do>
- Can also access tool via:
<http://www.epa.gov/fec/publications-and-resources>

Equipment Use Information (Power Management and Lifespan Extension)

	Total number of ENERGY STAR® 5.* units	Total number of ENERGY STAR® 6.* units	% of COMPUTERS with power management feature enabled	% of DISPLAY with power management feature enabled	Average lifespan of units (Months)
Desktop computers (CPUs)	<input type="text"/>	<input type="text"/>	<input type="text"/>		<input type="text"/>
Cathode ray tube monitors (CRTs)	<input type="text"/>			<input type="text"/>	<input type="text"/>
LED monitors	<input type="text"/>	<input type="text"/>		<input type="text"/>	<input type="text"/>
Notebook computers	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total number of units in service (5.* and 6.*)	<input type="text"/>				

Equipment End-of-Life Information (Reuse and Recycling)

Reused:	Total number of Units
Desktop computers (CPUs):	<input type="text"/>
Cathode ray tube monitors (CRTs):	<input type="text"/>
LED monitors:	<input type="text"/>
Notebook computers:	<input type="text"/>
Mobile telephones:	<input type="text"/>
Total number of units reused	<input type="text"/>
Recycled:	
CPUs:	<input type="text"/>
CRTs:	<input type="text"/>
LEDs:	<input type="text"/>
Notebook computers:	<input type="text"/>
Mobile telephones:	<input type="text"/>
Amount (kg) of mixed office electronics recycled	<input type="text"/>
Total number of units recycled (excluding mixed office electronics reported above)	<input type="text"/>

Web Slice Gallery ▾

Results – Tables

USE AND END OF LIFE		Energy savings (kWh)	Primary material savings (kg)	Greenhouse gas emission savings (kg Of CE)	Air emission savings (kg)	Water emission savings (kg)	Toxic material savings (kg)	Municipal solid waste savings (kg)	Hazardous waste savings (kg)	Cost savings (\$)
<p>DeskTop : 500 CRT(s) : 0 Notebook(s): 500 LED(s): 500 Reused CPUs :200 Reused CRTs : Reused LEDs :200 Reused Notebooks : Reused MobilePhones: Recycled CPUs : Recycled CRTs : Recycled LEDs :200 Recycled Notebooks : Recycled MobilePhones : Recycled Mixed Electronics(Kgs) :</p>										
USE AND END OF LIFE										
CRITERIA/ATTRIBUTES/ACTIONS										
Use(Lifetime)										
Power management		0.00E0	0.00E0	0.00E0	0.00E0	0.00E0				0.00E0
Extend product life		0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
Use Lifetime SUBTOTAL		0.00E0	0.00E0	0.00E0	0.00E0	0.00E0				0.00E0
Use (First Year)										
Power management		0.00E0	0.00E0	0.00E0	0.00E0	0.00E0				0.00E0
End-of-Life										
Computer and monitor reuse		7.70E5	3.70E3	4.81E4	5.70E5	9.10E2	3.72E-1	3.70E3	3.71E2	7.95E4
Mobile phone reuse		0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0	0.00E0
Reuse SUBTOTAL		7.70E5	3.70E3	4.81E4	5.70E5	9.10E2	3.72E-1	3.70E3	3.71E2	7.95E4
End-Of-Life Management										
Computer and monitor recycling		2.18E4	1.25E3	1.12E3	1.62E4	2.58E1		1.25E3	9.14E1	2.25E3
Mobile phone recycling		0.00E0	0.00E0	0.00E0	0.00E0	0.00E0		0.00E0	0.00E0	0.00E0
Mixed electronics recycling		0.00E0	0.00E0	0.00E0	0.00E0	0.00E0		0.00E0	0.00E0	0.00E0
Recycling SUBTOTAL		2.18E4	1.25E3	1.12E3	1.62E4	2.58E1		1.25E3	9.14E1	2.25E3
End-of-life ALL ELECTRONICS SUBTOTAL		7.92E5	4.96E3	4.92E4	5.86E5	9.36E2	3.72E-1	4.96E3	4.62E2	8.18E4

Future Updates

- ⌘ Add TV's to EEBC – September 2016
- ⌘ Update references – Fall 2016
- ⌘ Incorporate most recent eGrid data – Fall 2016
- ⌘ Add new product categories (mobile devices, servers) as final standards are published and integrated into the EPEAT system – January 2017??

Other Sustainability Programs at EPA



ENERGY STAR: www.energystar.gov/

This voluntary program delivers environmental benefits and financial value through superior energy efficiency. By certifying top-performing products, homes, and commercial and industrial buildings, ENERGY STAR helps individuals and businesses make energy-efficient choices. Free guidance, tools, and resources are available to measure and track building energy use.



Combined Heat and Power (CHP) Partnership: www.epa.gov/chp/

CHP, or cogeneration, is an efficient and clean approach to generating electric power and useful thermal energy from a single fuel source. The CHP Partnership offers free technical tools, including CHP project qualification tools to determine whether CHP is worth considering at a particular facility.

More ...



Lastly, are you interested in selling to the federal government?

The U.S. government is the single largest consumer in the world, purchasing over \$450 billion dollars in goods and services annually. Various laws, Presidential Executive Orders and procurement regulations require federal agencies to purchase “greener” products and services. A vast market opportunity exists for vendors who provide these green products.

<https://www.epa.gov/greenerproducts/selling-greener-products-and-services-federal-government>

If you have any other questions,
please contact:

Christina Guthrie

202-564-8846

Guthrie.Christina@epa.gov