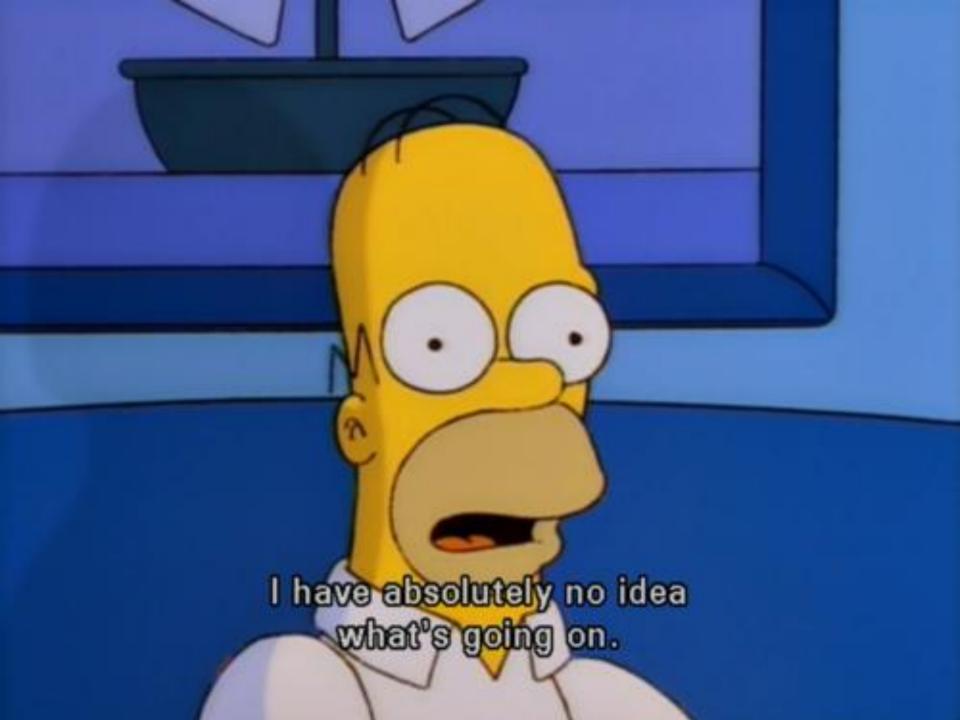
SusTech 2014



Mark Rossolo

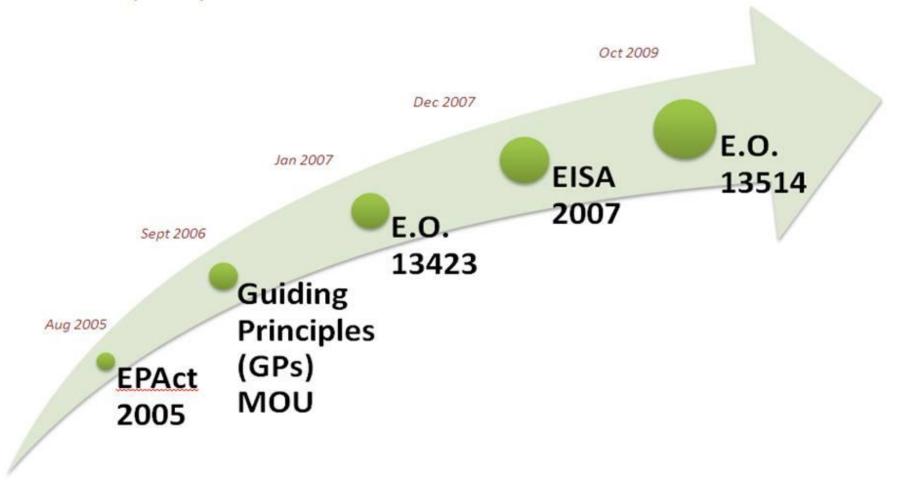
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Timeline of Major Federal Sustainability Mandates, Laws, and Orders.



*Courtesy of National Institute of Health



U.S. ENVIRONMENTAL PROTECTION AGENCY

Environmentally Preferable Purchasing (EPP)

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Draft Guidelines for Product Environmental Performance Standards and Ecolabels for Voluntary Use in Federal Procurement

Background

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& Services

Questions

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ons on for

- · General Questions and Answers
- Supplementary Materials

From November 20, 2013 through April 25, 2014, EPA received input from more than 75 individuals and organizations on its proposed <u>Draft Guidelines for Product Environmental Performance Standards and Ecolabels for Voluntary Use in Federal Procurement (PDF)</u> (5 pp, 137 K, <u>About PDF</u>) to help federal purchasers select greener products and meet sustainability purchasing goals. Read the <u>Federal Register Notice</u>, <u>press release</u> and <u>blog</u>.

Please, go to Regulations.gov docket #EPA-HQ-OPPT-2013-0579 to see comments received.

Background

The draft guidelines were developed by EPA, the General Services Administration (GSA), and other federal agencies following several listening sessions with a wide range of stakeholders. The sessions focused on how the federal government can be more sustainable in its purchasing and how federal purchasers can best meet the numerous federal requirements for the procurement of sustainable and environmentally preferable products and services.

General Questions and Answers

What is the purpose of the guidelines?

They are a set of criteria that could help identify which private sector standards and ecolabels federal purchasers should consider when buying greener products.

EPA draft quidelinespdf

Why were the draft guidelines developed?

They are intended to help federal purchasers identify and buy environmentally preferable products. Federal agencies must meet federal mandates requiring that 95 percent of their acquisitions are sustainable, such as by buying environmentally preferable products.

Many federal agencies are buying products with federal ecolabels, such as Energy Star, Watersense, and Design for the Environment -- labels that identify products meeting strict federal standards for energy, water, and safer chemicals; however, there are many other products that are not covered by federal ecolabels. The challenge for federal buyers is sorting through these hundreds of other products with non-governmental standards and ecolabels that claim to be safer or environmentally friendly. The draft guidelines are intended to help federal buyers select those private ecolabels and standards that are environmentally preferable and appropriate for federal procurement.

How would the guidelines be used?

Under the proposed approach, one or more non-governmental (private sector) organizations with expertise in environmental standards and ecolabels would work with EPA and key stakeholders to develop a process for applying the guidelines to private sector environmental standards and ecolabels.

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Government and Universities

STATE AND MUNICIPAL GOVERNMENTS











California

Michigan

Colorado

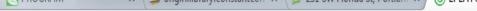
Wisconsin

New York

....dozens of others (Illinois, Massachusetts, Minnesota, New Hampshire, New Jersey, Ohio, Pennsylvania, Rhode Island, Vermont, Washington DC. ...Municipal Government examples...Los Angeles County, Keene NH, Phoenix, AZ, Seattle, WA, and Leeds, UK

UNIVERSITIES

Of 300+ universities and colleges surveyed, 222 used EPEAT in their electronics purchasing decisions; of those, <u>70 purchased exclusively EPEAT-registered</u> <u>products (2010)</u>







C greenelectronicscouncil.org/epeat-environmental-rating-system-debuts-india/



Blog - Latest News

IT'S NOT JUST THE U.S.

EPEAT® Environmental Rating System Debuts in India

22 Jul 2014 / 1 Comment / in Feature, News, Press Releases / by Andrea Desimone

Indian purchasers can now use the procurement tool to select greener electronics from world-leadin

Delhi - July 23, 2014 - The Confederation of Indian Industry's Centre of Excellence for Sustainable Development (celebrated the Indian debut of the EPEAT® environmental-rating system for electronics with an event in Delhi co-I Green Electronics Council. Cll convened representatives from the electronics industry, enterprise purchasers, gov civil society in a discussion of how EPEAT can support and reinforce Indian efforts to reduce the environmental in The Green Electronics Council, the U.S-based non-profit organization that manages the EPEAT system encourage all stakeholder groups to continue thinking creatively

For eight years, EPEAT ratings have helped companies, governments and consumers around the world compare greener devices, resulting in significant environmental benefits. India is the 43rd country in which EPEAT registrat services are now available to help purchasers select products that reduce their environmental impact.

"Indian purchasers now have a way to easily and reliably identify greener electronics, joining with others around th development of more environmentally sound devices," said Robert Frisbee, CEO of the Green Electronics Council size and scope of the Indian electronics market, we are excited about the environmental benefits that will flow from EPEAT for India."



3.2.1 Legal and Regulatory Framework

Figure 9 provides an overview of the different international, regional, national and sub-national regulatory and policy frameworks of relevance to SPP/GPP.

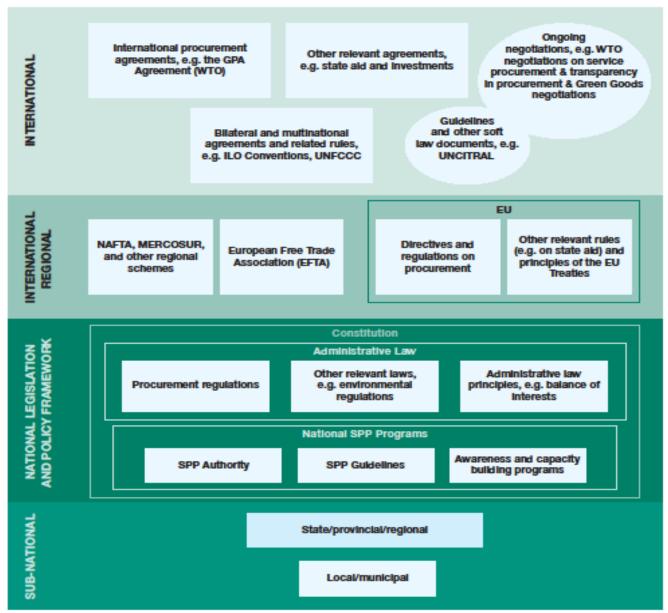
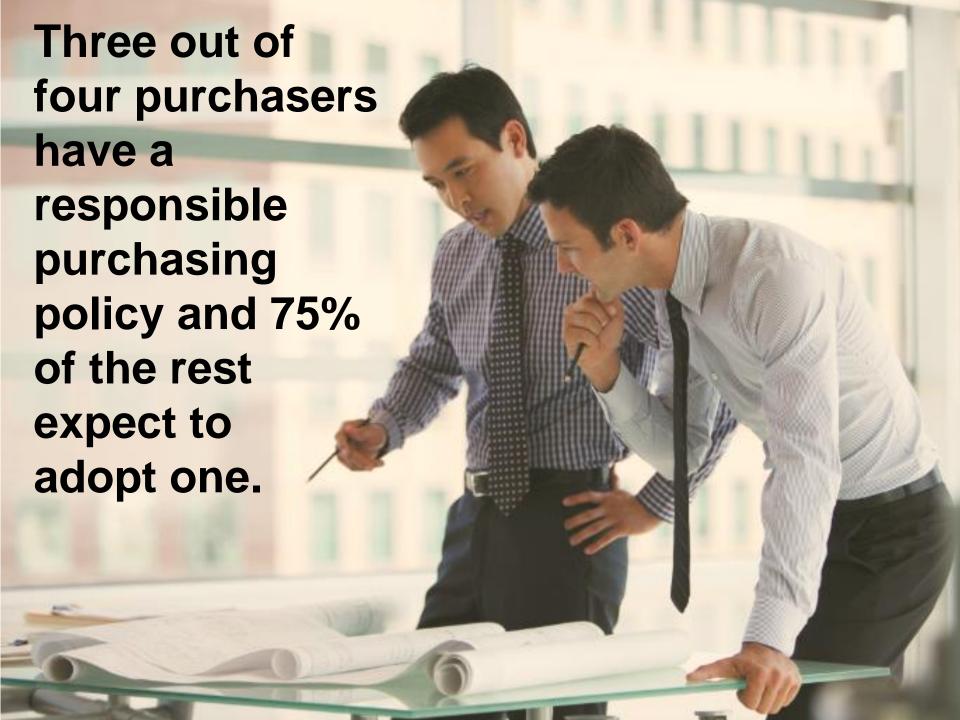


Figure 9: The international, regional and national legal frameworks for SPP/GPP

UNEP est. over 50 countries with active SPP/GPP









Criteria maturing in new standard

Moving beyond compliance

• Then: RoHS

Now: REACH, HFRs, and beyond

Increased supply chain transparency

- Then: Corporate Sustainability Reporting
- Now: Life Cycle Assessment (LCA), supply chain toxic declaration, auditing of suppliers and recyclers

Raising the bar

Increased recyclability, recycled content, and bio-based standards

The Evolution of a Hipster



Enterprise Purchasing

- Companies REQUIRE EPEAT purchasing within institutional procurement guidelines.
- New requirements stating EPEAT Silver and Gold as minimum requirement.
- Examples of companies requiring EPEAT within their electronics purchasing guidelines*:



Deutsche Bank

















*does not constitute an endorsement to EPEAT.

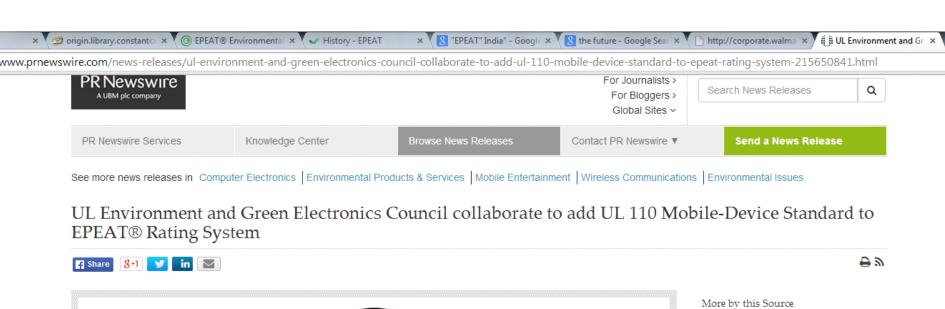


What's Next?

UL 110: Mobile Phones

 It is estimated that in 2012, over 108.8 million smartphones were purchased in the U.S. alone.







UL is first new standards-development organization associated with EPEAT since 2006

MARIETTA, Ga., July 16, 2013 /PRNewswire-USNewswire/ -- UL Environment, a business unit of UL (Underwriters Laboratories), and the Green Electronics Council (GEC), announced today a collaboration to bring a mobile-device category to the EPEAT® registry of greener electronics. Together, the organizations will work with manufacturers, environmental groups, and purchasers to align the UL110 standard for mobile phones with GEC's requirement for EPEAT.

(Logo: http://photos.prnewswire.com/prnh/20120209/MM50987LOGO)

After approval, the updated standard is expected to debut in early 2014. UL 110 will serve as the basis for a new mobile-device EPEAT category. This is the first time the Green Electronics Council has incorporated an environmental standard from an organization not involved in the EPEAT system's 2006 launch.



UL Environment Awards First Closed Loop Validation to Dell May 20, 2014, 15:00 ET

View all news by UL Environment

Journalists and Bloggers



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Categories of Criteria

Categories are a combination of life cycle stages and key performance areas beyond traditional LCA impact categories

Environmentally Sensitive Materials

Energy Management

Health and Environment

Product Stewardship

Packaging

Manufacturing and Operations

Innovation



Environmentally Sensitive Materials

- Materials acquisition
- Known substances of concern
- Specific supply chain issues
- Recycled content

Prerequisites	Section/ Paragraph Reference	Title of Section / Requirement Description	Points (max)
Materials			
	<u>8.1</u>	Conflict Minerals	1
	<u>8.2</u>	REACH SVHC compliance	5
	<u>9.1.1</u>	Recycled or bio-based plastic in the product housing	5
	<u>9.1.2</u>	Recycled or bio-based content in the housing of the power supply	4
		Total	15



Energy Use

- Product energy use or performance
- Charging systems
- Potential energy savings

Prerequisites	Section/ Paragraph Reference	Title of Section / Requirement Description	Points (max)
Energy Use			
	10.1	Charger connector	2
	10.2	External Power Supply energy use	20
	10.3	Handset Connector	2
		Total	24



Health and Environment

- Specific restricted substances
- Product and accessories

Prerequisites	Section/ Paragraph Reference	Title of Section / Requirement Description	Points (max)
Substance Restr	ictions		
Required	<u>11.1</u>	RoHS Compliance	Required
Required	<u>11.2</u>	Extractable Nickel	Required
	<u>11.3</u>	Elimination of PVC	3
	<u>11.4</u>	Phthalates	2
	<u>11.5</u>	Low Halogen PWB	2
	<u>11.6</u>	Low Halogen Handset	3
	<u>11.7</u>	Low beryllium content	2
Required	<u>11.8</u>	Low Cadmium and Mercury batteries	Required
Required	<u>11.9</u>	Low Pentachlorophenol, dibutyltin and dioxcyltin, azo dyes, dimethylfumarate in accessories	Required



Health and Environment

- Overall performance of product
- Link key impacts with corporate performance and planning

Prerequisites	Section/ Paragraph Reference	Title of Section / Requirement Description	Points (max)
LCA			
	<u>13.1.1</u>	LCA	3
	<u>13.2</u>	Independent review of LCA	2
	13.3	LCA results reflected in CS plan	2
		Total	27



Product Stewardship

- All EOL topics including recycling and life extension
- Design feature that improve disassembly or separation of materials
- Design features that encourage life extension

Prerequisites	Section/ Paragraph Reference	Title of Section / Requirement Description	Points (max)
EOL Managemen	t and Life Extens	sion	
	<u>14.1</u>	Take-back program	2
	<u>14.2</u>	Recyclability	5
	<u>14.3</u>	Replacement Parts	1
	<u>14.4</u>	Recycler auditing	1
Required	<u>14.5</u>	Battery removal	Required
	<u>14.6</u>	Easy disassembly	1
	<u>14.7</u>	Common plastics for whole product	1
	<u>14.8</u>	Memory erasure capability	1
		Total	12



Packaging

- Could include both POS and transport
- POS Design for recyclability in municipal systems

Prerequisites	Section/ Paragraph Reference	Title of Section / Requirement Description	Points (max)
Packaging			
	<u>15.1</u>	Fiber based Packaging	3
	<u>15.2</u>	Plastic packaging recycled content	2
Required	<u>15.3</u>	No Expanded polystyrene packaging	Required
	<u>15.4</u>	Fiberboard content, recycled material, certified, chlorine free, rapidly renewable.	3
Required	<u>15.5</u>	Low Cd, Pb, Hg, Cr(VI) packaging	Required
	<u>15.6</u>	Non-petroleum based ink	1
	<u>15.7</u>	Glue free or water based adhesive	1
	<u>15.8</u>	Packaging volume	3
		Total	13



Manufacturing and Operations

- Facilities performance
- Corporate Social Responsibility
- Supply Chain management for social issues

Prerequisit es	Section/ Paragraph Reference	Title of Section / Requirement Description	Points (max)
Manufactur	ing and Operatio	ns	
	<u>16.1</u>	CSR Action Plan	4
	16.2	Publishing of CSR report	2
	16.3	Third party validation	1
	16.4	Supplier or ODM compliant with CSAP	2
Required	<u>17.1</u>	Publicly available EHS policy	Required
	<u>17.2</u>	Formal EMS program and certification	2
	18.1	Supply chain impacts	5
	<u>18.2</u>	Final assembly manufacturing site certification to ISO 14001 or EMAS	2
		Total	18



Innovation

Innovative ways to reduce impact that are not covered in the standard

- Energy offsets
- Applications that reduce environmental impact
- Alternative materials use

Must be able to show genuine sustainability benefit using LCA or other tool for assessing sustainability of the product



Overall Scoring

Mobile Phone Sustainability Achievement		
Matrix		
Title of Section / Requirement	Points (max)	
Description	r onits (max)	
Materials	15	
Energy Use	24	
Health and Environment	27	
EOL Management and Life	12	
Extension		
Packaging	13	
Manufacturing and Operations	18	
Total	109	
Innovation	10	

Level of Achievement	Points Required
Certified	55% of available (60 points)
Platinum	73% of available (80 points)





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Thank You

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Public Affairs Director

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