

Technology Platform Overview for ISWG Meeting November 10, 2016

Presented By: Michael Bloom & Paul Shahriari

SFTool.gov



LEARN PLAN EXPLORE PROCURE PRACTICE ASSESS SHARE Q

Sustainable Facilities Tool

Build, Buy, and Operate Green

What can I do here? **O**

You're here because you care about efficient, healthy buildings and environmentallyresponsible purchasing. Check out summaries of each section of the site to start exploring.

Introduction to SFTool

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Watch the video (2min)

Where do I start? **D**

To access the information you need quickly, view user guides tailored to professional roles – taking you straight to the topics that interest you the most.

Log On

mage: Wayne L. Morse Court



Learn About Sustainability

Learn about sustainability topics, such as indoor environmental quality (IEQ) and plug loads



Plan a Project

Review sustainable strategies for both new construction and renovation projects



Buy Green

Discover which products and services meet different environmental programs, such as BioPreferred or Energy Star

Explore a Building



Walk through a sustainable building to learn about strategies and products for each workspace and building system



Practice Going Green

Try your hand at sustainable building management with Green the Building



Demonstrate Understanding

Use FEDSAT to take the first step on a path towards full FBPTA compliance



SFTool.gov - Explore

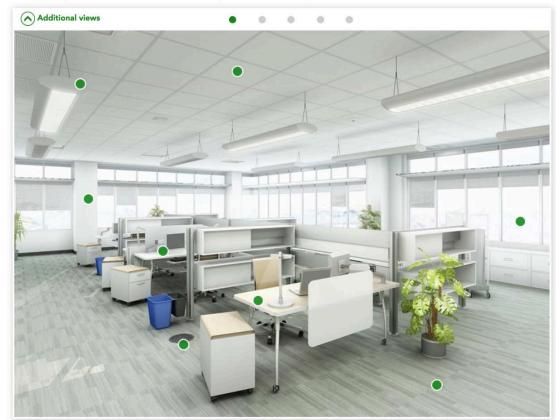


Open Office Area 🔻

An open office area supports work productivity for groups of employees. Design this space to be flexible, allowing for quick transition from collaborative to individual setup. Optimize daylight and views, and avoid blocking views by using low cubicle dividers or dividers made of transparent material. Utilize occupancy sensors and zones for maximum efficiency of HVAC and lighting systems. Design HVAC systems to have multiple zones to increase thermal comfort, and consider using under floor air to provide occupant control of diffusers. Allow for task lights for all abilities and tasks. Support the type of work with active ergonomics. Pay careful attention to acoustics by selecting materials that absorb sound or installing a white noise system to limit noise levels from one work station to the next. View Planning Strategies

Interested in Open Office Area-related products? View related green products and services on the Green Procurement Compilation Share

Click on a hotspot to learn sustainable strategies and compare materials for that system

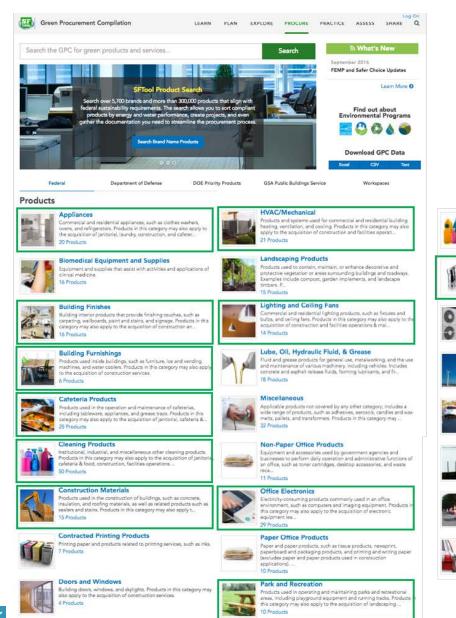


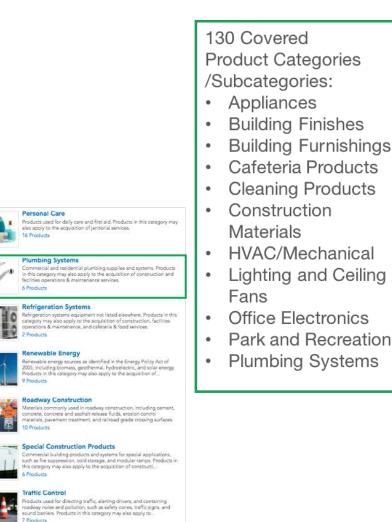
Select a System to Compare Materials

Walls Ceiling Lighting Windows and Daylighting Furniture / Furnishings Flooring HVAC Advanced Power Strip (APS)



SFTool.gov - Procure





-10

Construction Materials

- HVAC/Mechanical
- Lighting and Ceiling
- Office Electronics
- Park and Recreation
- Plumbing Systems

Vehicles and Vehicle Products

19 Products

Alternative fuel vehicles, including hybrid electric vehicles, electric

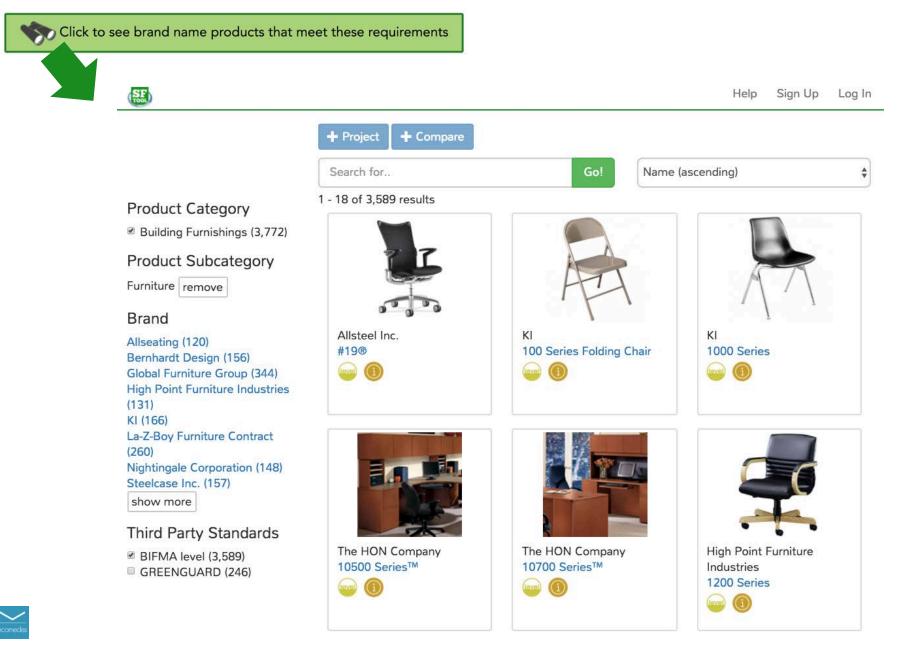
vehicles, and low greenhouse gas emitting vehicles. Products used in repairing and maintaining automobiles, trucks, and other ve...

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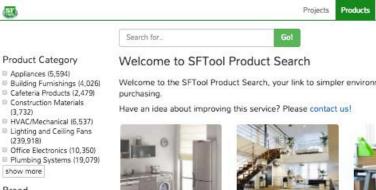
Green Procurement Compilation	LEARN PLAN EX	PLORE PROCURE	Log PRACTICE ASSESS SHARE
Home » Federal » Building Furnishings			Custom product lists
Products	Furniture		
Commercial Ice Makers	Last Updated: 10/18/16		
Furniture	Click to see brand name products that n		
Office Furniture Components	* Federal agencies are required to purchase prod	lucts as designated or specif	
Office Recycling Containers and Waste Receptacles	Procurement Info 🚯		Where to Buy 🚺
/ending Machines	Federal Programs		Schedule 71
Vater Coolers	🍄 CPG * 🗎 (see Office Furniture Components)		
	EPA Recommended Standards and Eco	olabels	
	UL 2818 GREENGUARD Certification * BIFMA Level *		
	Legal Requirements Guiding Pr	rinciples Additio	nal Guidance Related Workspaces
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	FAR Subpart 23.7 Contracting for Enviro FAR Subpart 23.4 Use of Recovered Mat FAR Subpart 23.1 Sustainable Acquisitio	terials and Biobased Pro	



SFTool.gov > SFTool Product Search



SFTool Product Search - Start





Albeo (2.564) Columbia Lighting (6,594) HOLOPHANE (4,801) kim Lighting (2,583) Lithonia Lighting (14,386) McGraw-Edison (3.083) Metalux (6,101) Streetworks (6,534) show more

Federal Environmental Programs

- Energy Star Certified (54,046) Safer Choice Certified (2.011)
- WaterSense Certified
- (19.079)

Third Party Standards

- BIFMA level (3,589) DLC Qualified (210.087)
- EPEAT (3,110)
- FloorScore (87)
- GREENGUARD (268)



Welcome to the SFTool Product Search, your link to simpler environmentally responsible

Building Finishes

Cleaning Products









Cafeteria Products



Doors and Windows







HVAC/Mechanical



Construction Materials

Building Furnishings



- Aggregated and Curated product databases
- Allows users to quickly discover products and solutions that meet high performance project & procurement standards
- Presents only products that meet performance standards saving hundreds of hours of search on a typical project.

130+ Product Categories	5,700+ Brands
300k+ Products	4.2M+ Eco Data Points



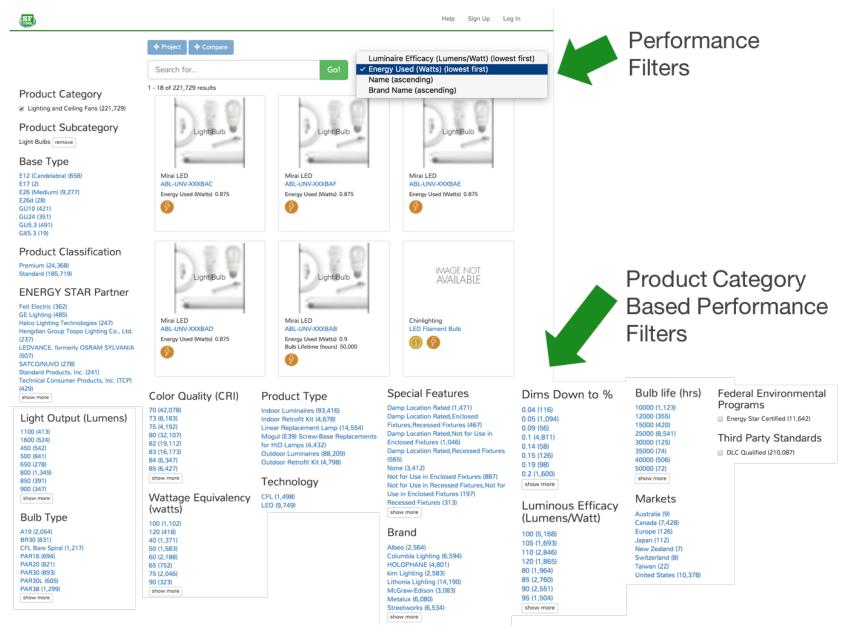
Office Electronics

Park and Recreation

Plumbing Systems

7

SFTool Product Search Filtration



Simplified Search, Comparison & Selection

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External Link go 😂

External Link on C

Product URL

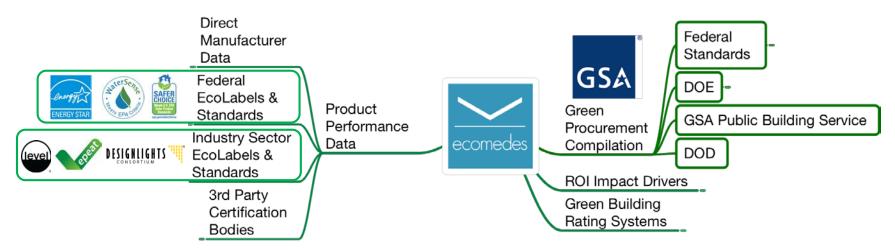
External Link on C

- Provides a user instant access to product options that meet sustainable selection criteria.
- Data is normalized to allow for quick comparison and evaluation.
- Data can be faceted and aligned with Impact Lenses. Standard lenses are:

Z	Energy
\bigcirc	Water
	Materials
Å	Human Health
B	Planet Health
SS)	Lifecycle Operations
	Certifications

9

Automated Data Mapping



- Aggregated 6 separate certification databases and normalized data based on procurement requirements.
- Connects the mapping of product data facets through the complicated network of sustainability requirements.
- Automates Green Building Rating System documentation

Product Categories Mapped	Initial Target	Launch	Future
Appliances	5	18	2
Building Finishes	5	6	10
Building Furnishings	2	5	1
Cafeteria Products		15	10
Lighting and Ceiling Fans	10	11	3
Plumbing Systems	4	4	2
Cleaning Products		34	3
Construction Materials		2	13
Office Electronics		23	5
HVAC/ Mechanical		12	8
Future Categories			190
Subtotals	26	130	247



Automated Impact Calculations

(SF)	Projects Products Paul Shahrlari -	SF		Projects Products Paul Shahriari -
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1	Bulb Lifetime (hours) 15000		() General	
	Energy Star Yes		Category	Plumbing
	Energy Used (Watts) 2.7		Subcategory	Showerheads
	Category Lighting		Flow Rate (gpm)	15
	Subcategory Light Bulbs		WaterSense	Yes
	Energy Calculator		Water Calculator	
4	Cumulative Serings 25000			

- Automates the ROI Calculations associated with Energy and Water Savings.
- These quick Watts and Water savings can be run in a minute and provide a rough order magnitude (ROM) impact analysis to help determine Total Cost of Ownership (TCO)



Streamlined Documentation & Reporting

- Accelerates existing workflows
- Creates procurement and project specification compliance documentation
- Allows users to save all their procurement documentation so that as changes arise, they can easily modify their project specific data.

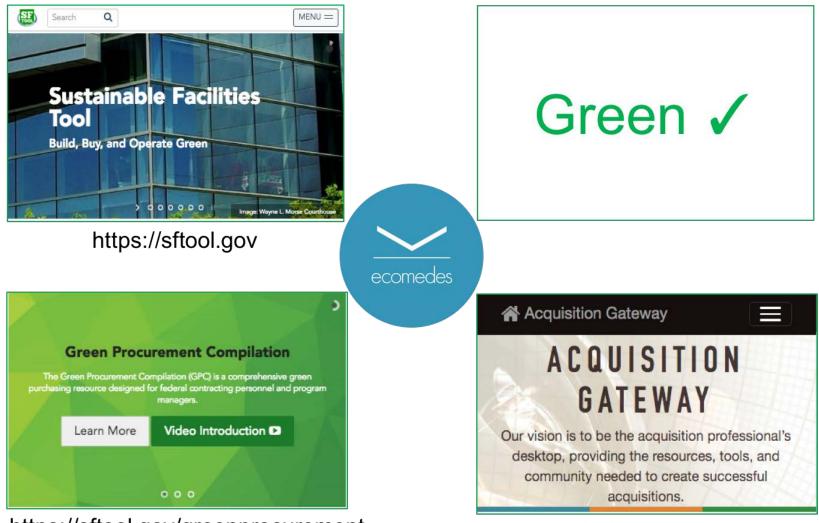
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• Specific Agency reporting requirements can be created

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Easy Integration into Federal Toolsets



https://sftool.gov/greenprocurement

https://hallways.cap.gsa.gov



Thank You Any Questions?

<u>SFTool Product Search URL:</u> https://SFTool.ecomedes.com

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