



Your Suppliers' Impacts Are Your Impacts Too

Opportunities to Prevent Pollution through Procurement

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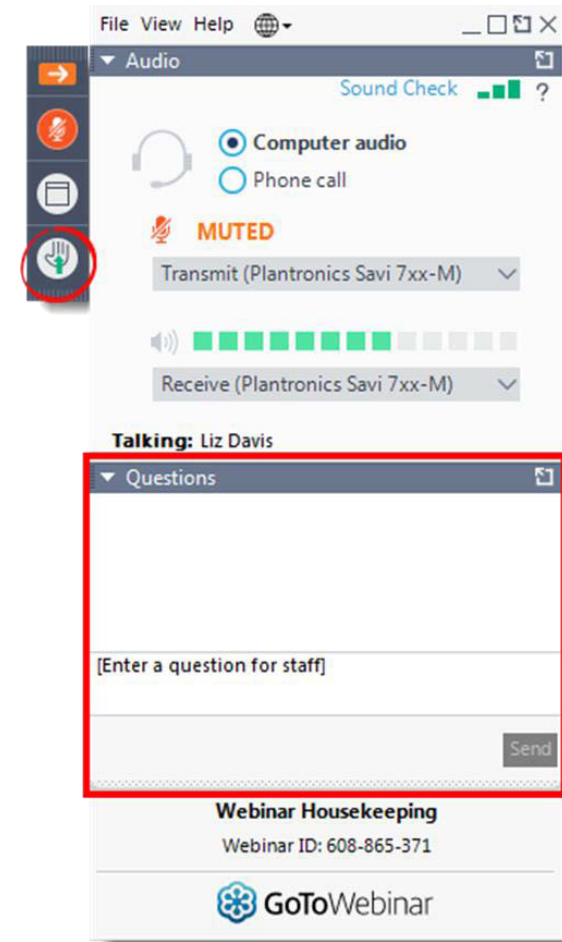
December 2020 Webinar P2 Technical Assistance Providers



Webinar Housekeeping

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- Please feel free to ask questions throughout the presentation.
- We may not be able to answer all questions.

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The fastest way to green your business is to buy from one that has already greened theirs....

Ray Anderson – former CEO, Interface & Author “*Mid-Course Correction: Toward a Sustainable Enterprise*”

Learning objectives for today’s webinar:

- Understand the current market demand for & challenges with supply chain environmental information.
- Identify key opportunities for P2 technical assistance providers (TAPs) to address business client supply chains to achieve P2 results. (EPA’s SMM Prioritization Tool)
- Demonstrate how standards & ecolabels can simplify greener procurement. (EPA’s EPP Program Recommendations & EPA’s Safer Choice)



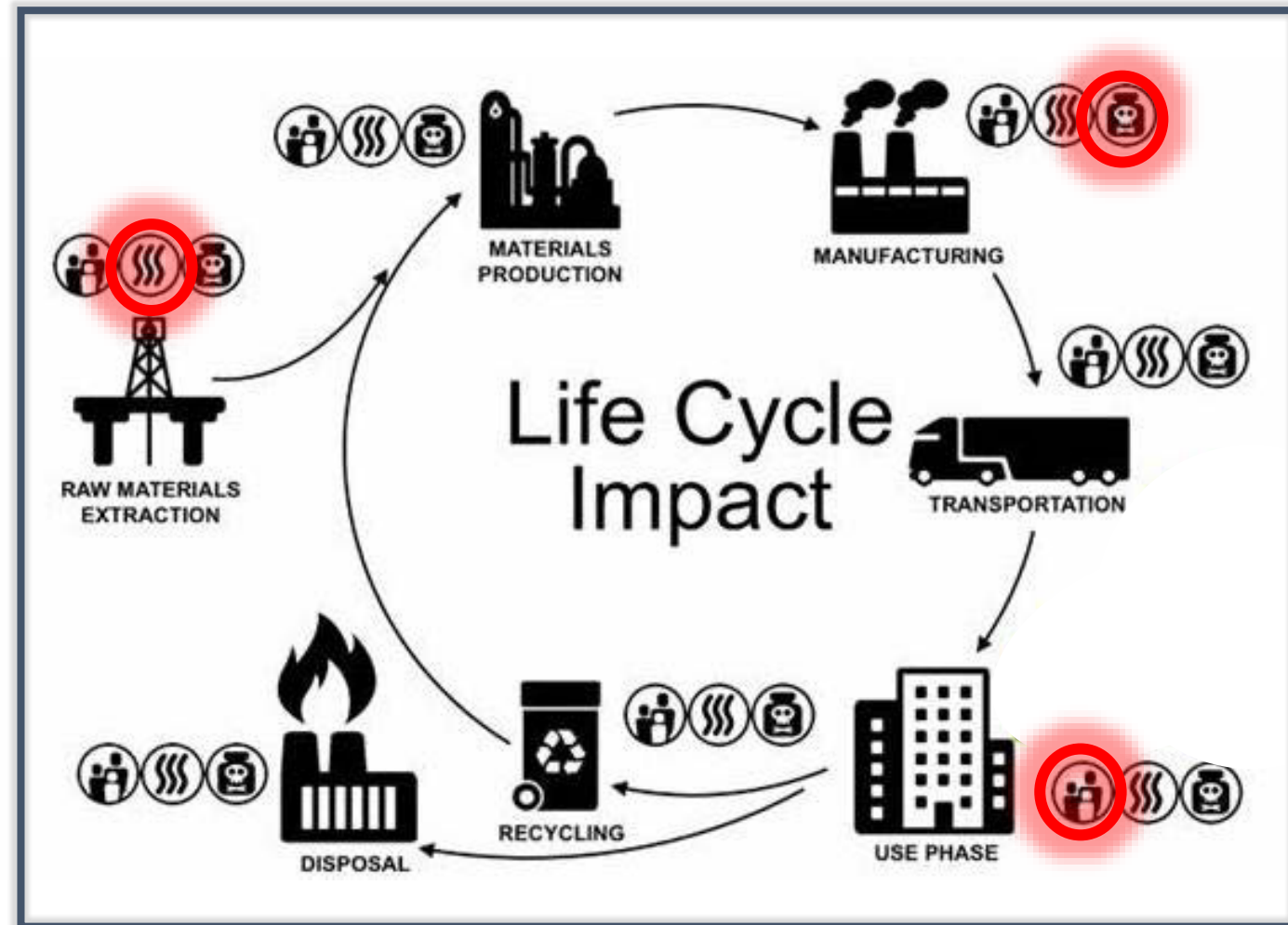
What are supply chain “hotspots”?

Hotspots: points in a supply chain or product’s lifecycle with the most significant environmental impacts as determined via life cycle assessment

Hotspots analysis can identify:

- Impactful lifecycle stages
- Significant impact(s) (e.g., toxic chemical)
- Media of concern (e.g., impact to water)
- Issue (e.g., run-off from X process....)
- Priorities for prevention or mitigation

Varies by sector & product category



*Example product hotspots for illustration purposes;
Impact categories included here (not exhaustive):*

- human health - acidification - ecotoxicity



Current Challenges to Maximizing P2 Opportunities in Supply Chains



Lack of understanding of how to prioritize spend categories to prevent pollution



Many market sustainability claims to sort through



Only 6% of procurement officers have visibility beyond their own direct suppliers (Deloitte, 2018)

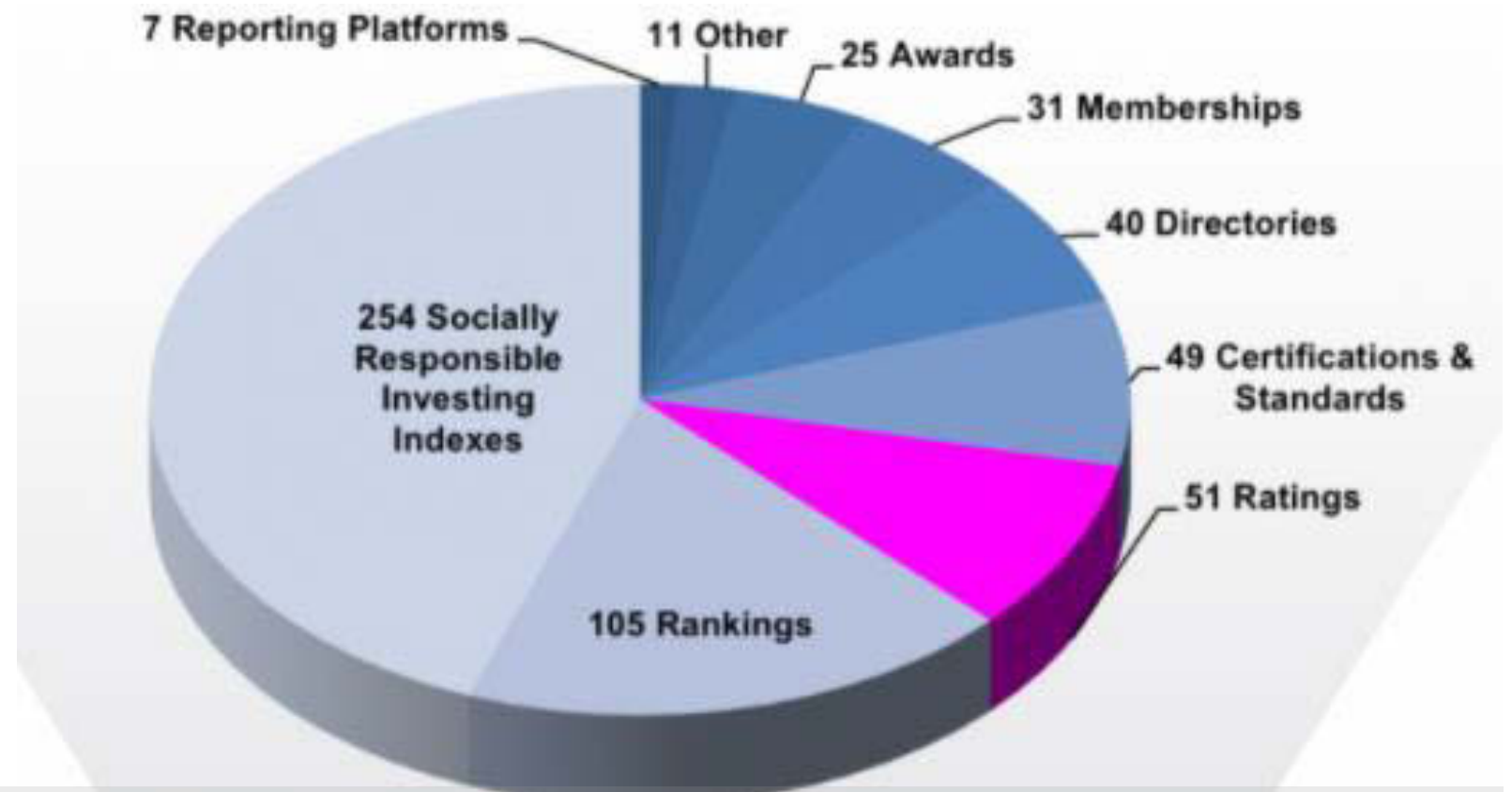


Information is siloed in legacy systems



Numerous Tools to Evaluate Supplier Sustainability

Source: The Sustainable Purchasing Leadership Council



Example Ratings:

- CDP
- EcoVadis
- MSCI ESG Ratings
- Oekom
- RobecoSAM
- Sustainalytics

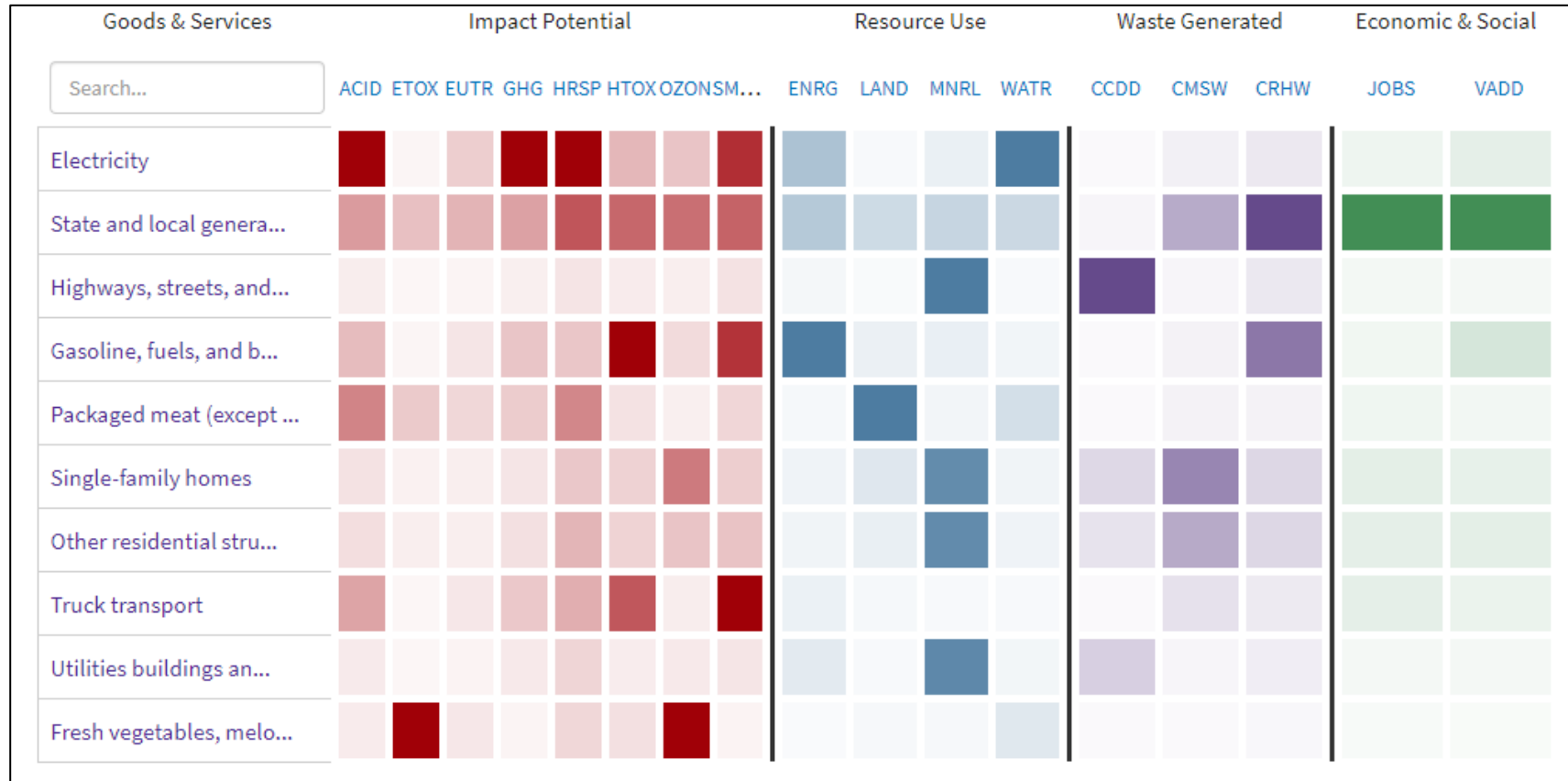


Today's Focus: EPA Resources to Navigate & Address Supply Chain Hotspots

- EPA's Sustainable Materials Management Organizational Prioritization Tool
- EPA's Recommendations of Specifications, Standards, and Ecolabels



SMM Prioritization Tools



Jarrold Bridge

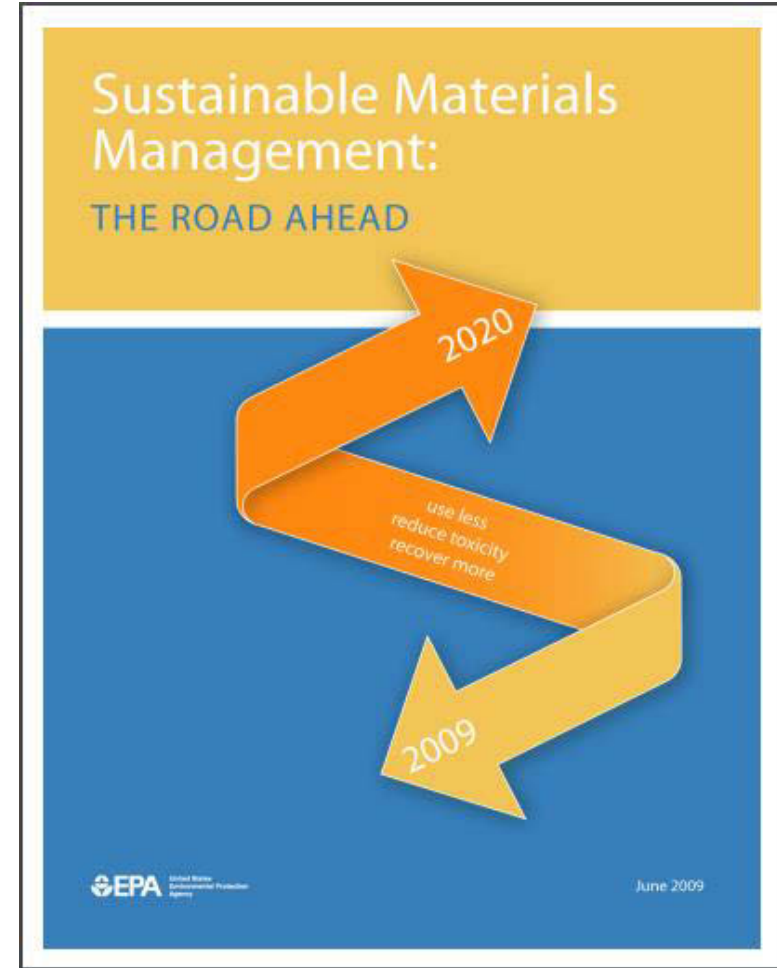
EPA Office of Resource Conservation & Recovery (ORCR)

Slides for P2 TAP Meeting

12/10/2020



From Waste Management to Sustainable Materials Management





SMM Prioritization Tools: Background

- SMM Prioritization Tools: user interfaces that access, extract and display information from the United States Environmentally-Extended Input-Output (USEEIO) model.
- USEEIO model: fully transparent, reproducible and freely shareable life cycle assessment model that assesses over twenty indicators associated with ~386 categories of goods/services produced or consumed in the US.
- Provides big-picture, cradle-to-gate information about potential environmental improvement opportunities in the United States and opportunities for benefits across a range of indicators.



Who Are the Intended Users?

- Individuals who are looking for environmental improvement opportunities or developing sustainability strategies, including:
 - Individuals who are not in the field of life cycle assessment;
 - Organizations who do not have the resources to hire consultants;
 - CEOs, procurement and sustainability professionals;
 - Government;
 - Non-profits;
 - Trade associations; and
 - Academic institutions.



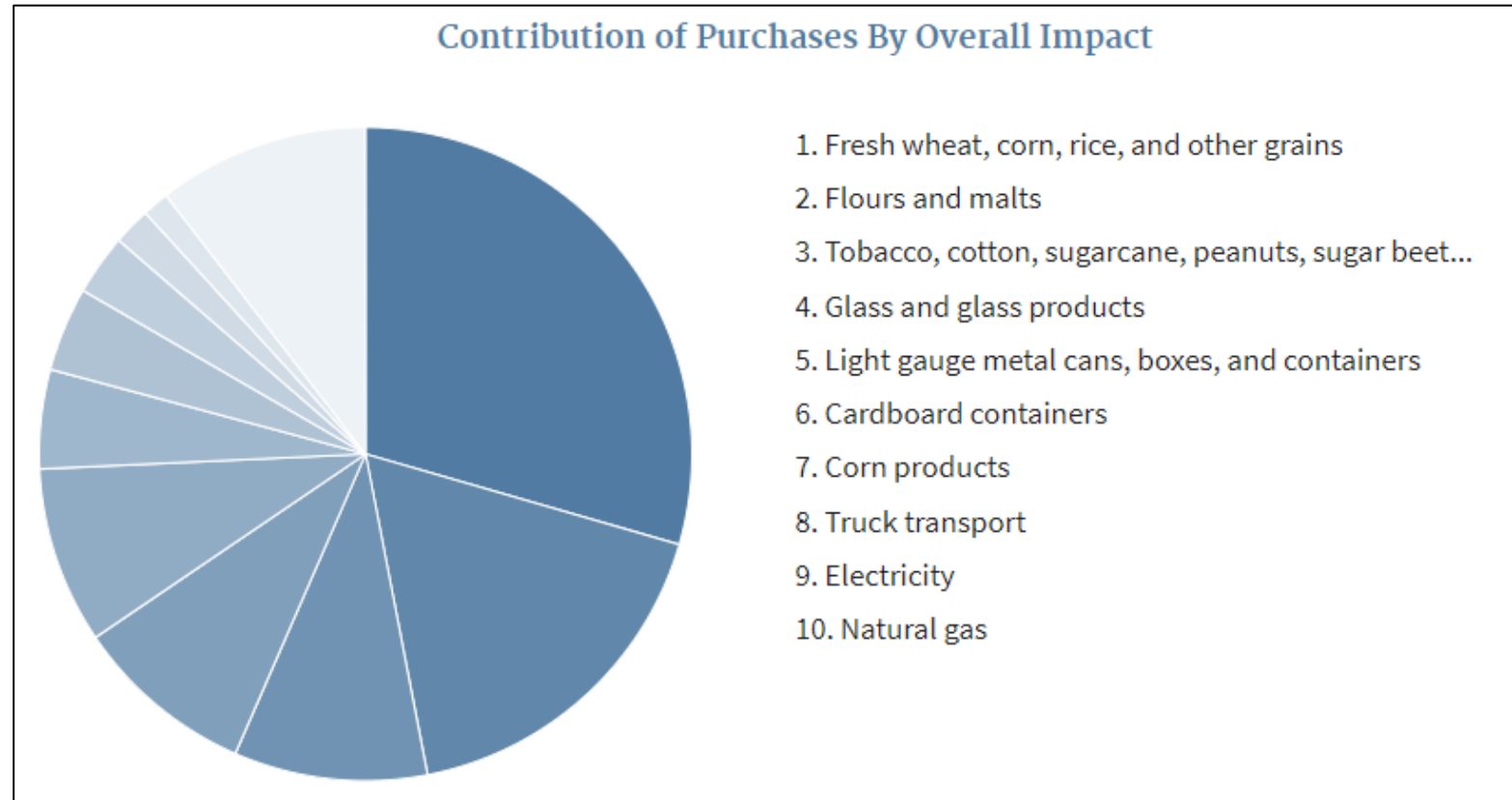
SMM Prioritization Tools: National Emphasis Area Coverage

- NEA 1 Food/Beverage (NAICS 311, 3121): **~23 goods/service categories**
- NEA 2 Chemicals (NAICS 325): **~19 goods/service categories**
- NEA 3 Automotives (NAICS 3361-3363, 8111): **~15 goods/service categories**
- NEA 4 Aerospace (NAICS 3364, 488190): **~6 goods/service categories**
- NEA 5 Metals (NAICS 331, 332): **~30 goods/service categories**



NEA 1: Breweries (NAICS 312120)

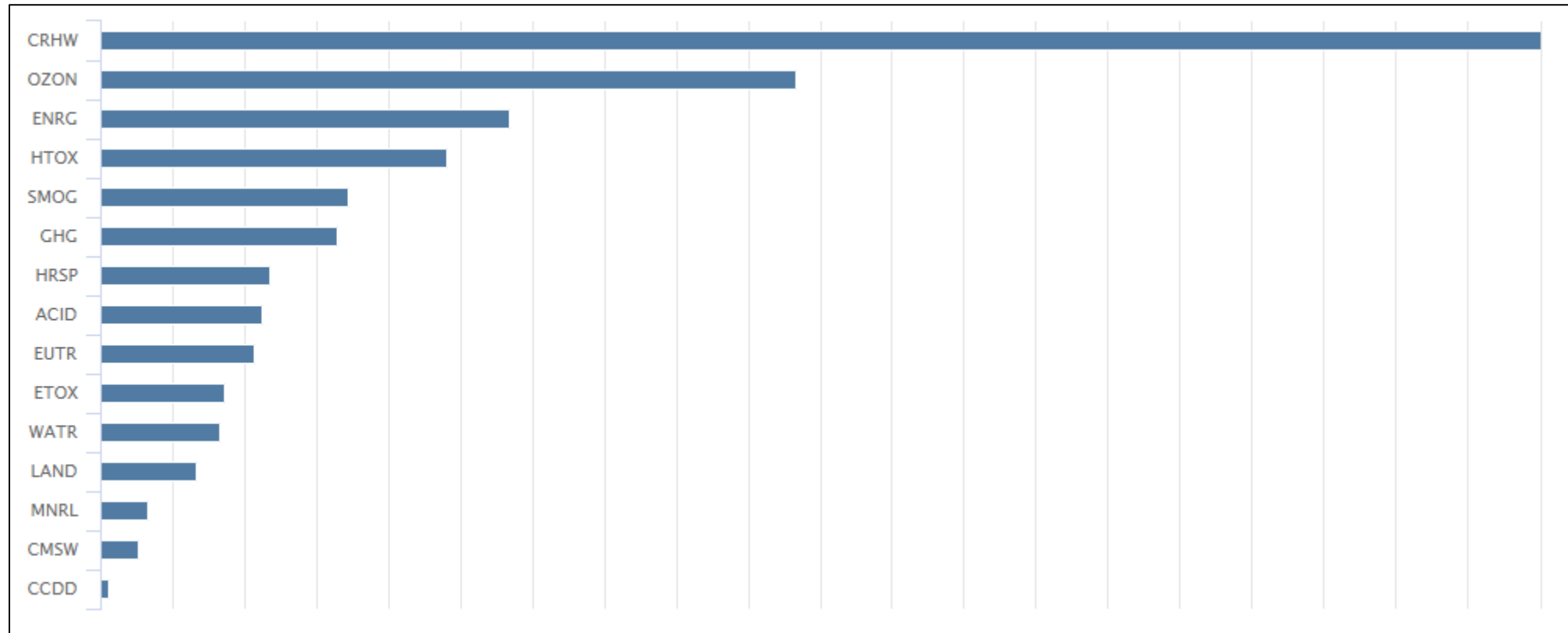
- Most significant cradle-to-gate env. opportunities: Respiratory Health, Ecotoxicity, Eutrophication
- At least 75% of all env. issues may originate in upstream supply chain.
- Roughly one-third of all supply chain-related env issues are embodied in purchases of grain crops. (CHART)





NEA 2: Plastics (NAICS 325211)

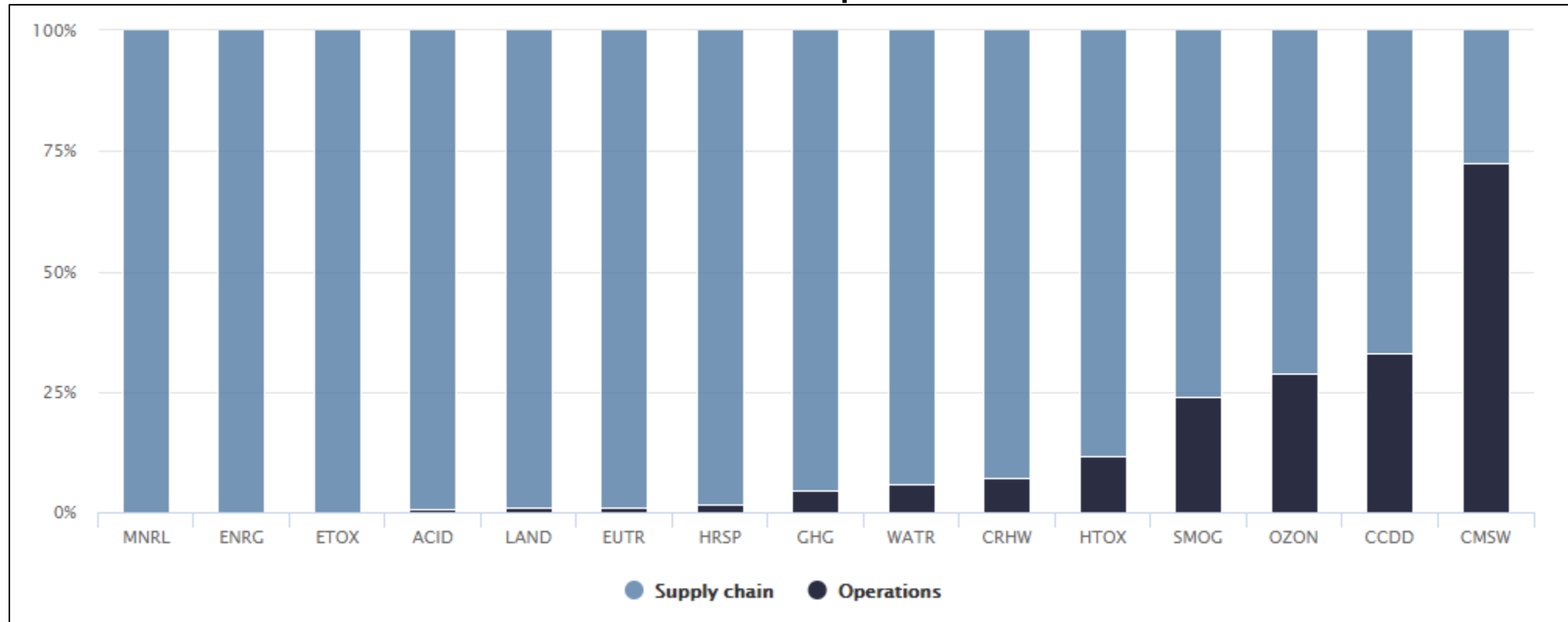
- Most significant cradle-to-gate env. opportunity: RCRA Hazardous Waste (CHART)
- Over 50% of all env. Issues may originate in upstream supply chain.
- Almost half of all supply chain-related env. issues are embodied in purchases of basic organic chemicals.





NEA 3: Vehicle Repair (NAICS 811100)

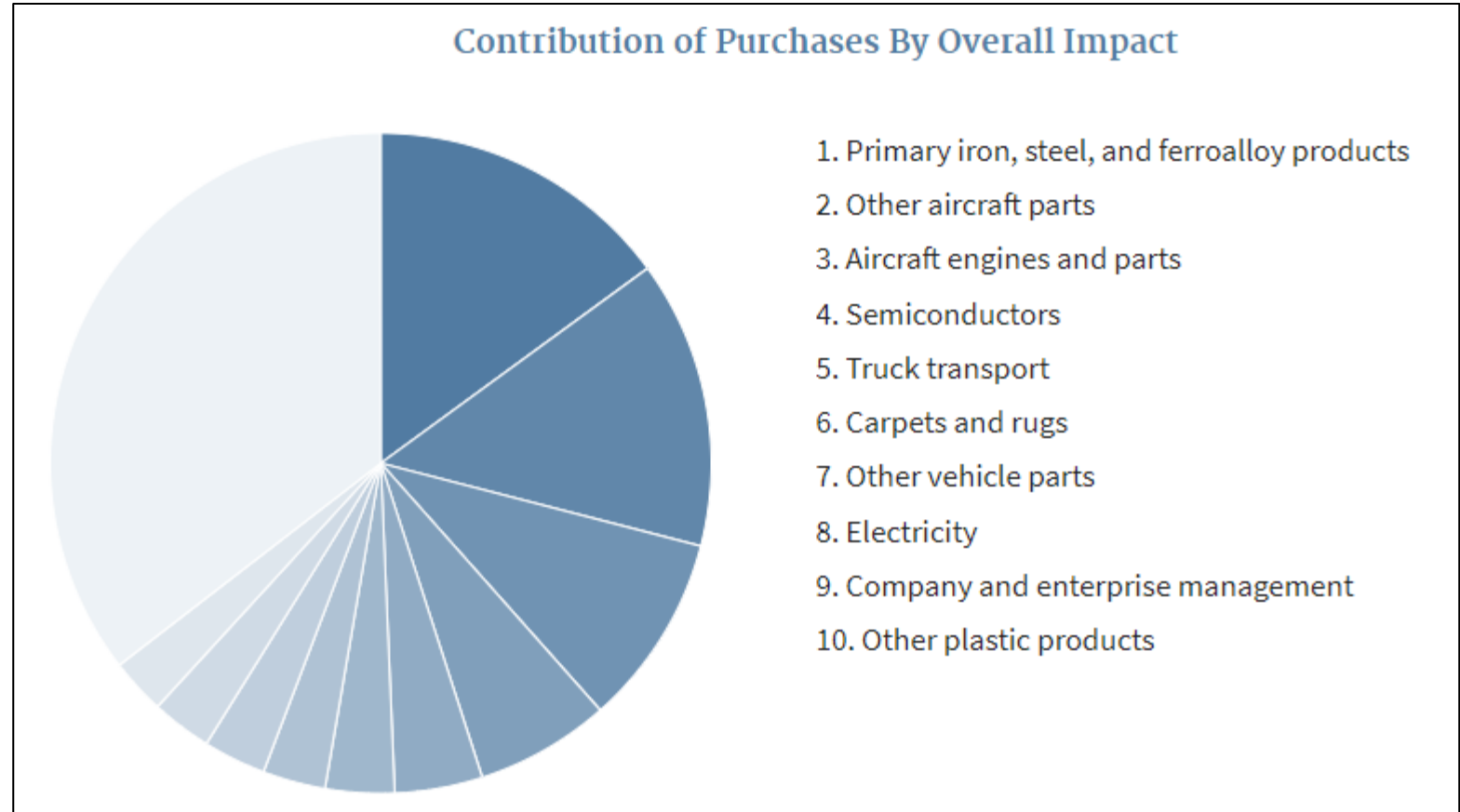
- Most significant cradle-to-gate env. opportunities: Municipal Solid Waste and RCRA Hazardous Waste
- Majority of all env. issues originate in upstream supply chain EXCEPT MSW (over 70% from operations) (CHART)
- Hazardous waste impacts primarily embodied in the purchases of plastic products, batteries and various vehicle parts.





NEA 4: Aircraft (NAICS 336411)

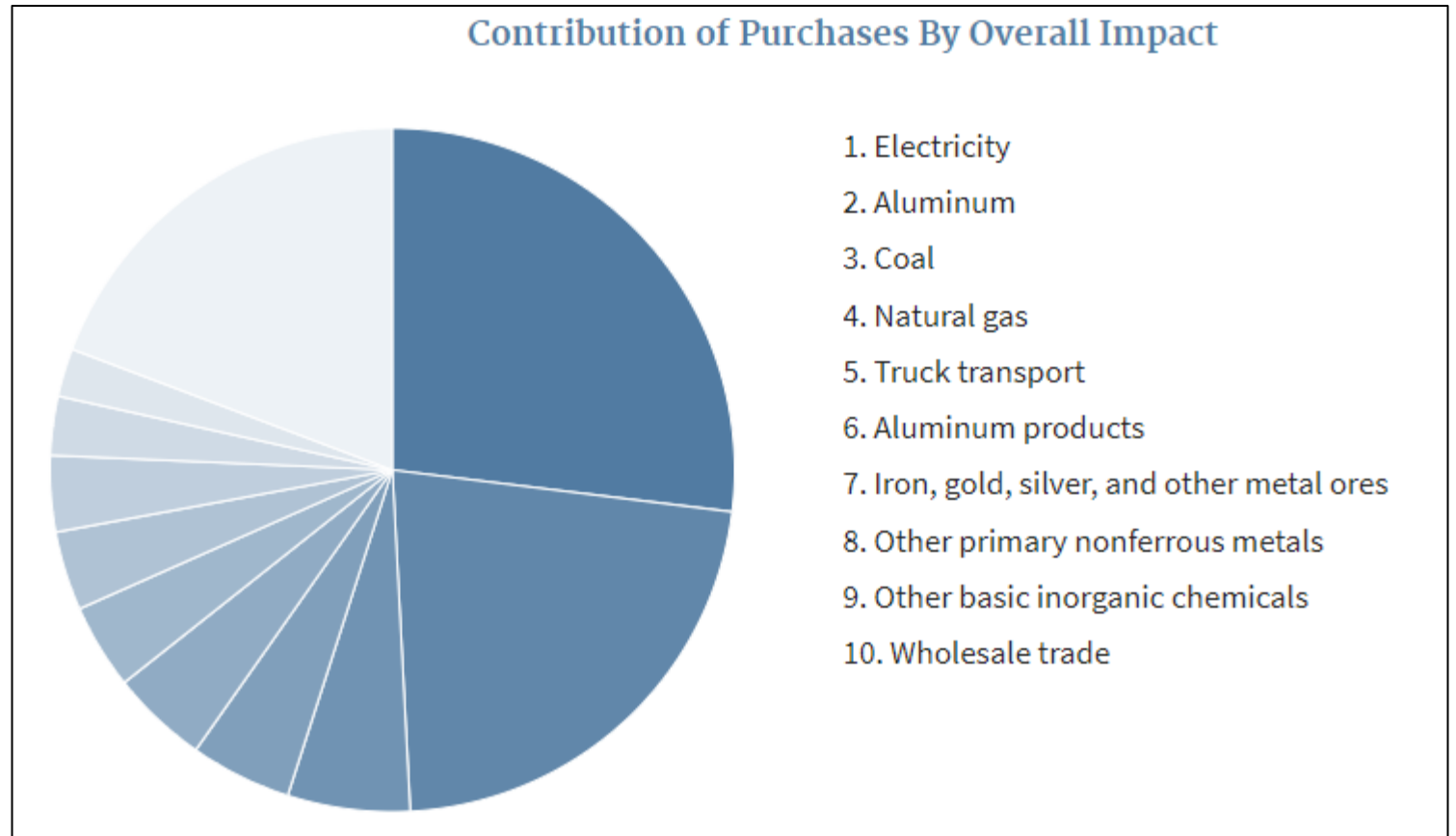
- Most significant cradle-to-gate env. opportunities: RCRA Haz. Waste, Ozone Depletion, Energy Use
- Majority of all env. issues originate in upstream supply chain.
- Large portion of supply chain-related env. issues are embodied in purchases of metals and different parts categories (e.g., primary iron/steel, engines, semiconductors, carpets). (CHART)





NEA 5: Aluminum (NAICS 331311, 331312)

- Most significant cradle-to-gate env. opportunities: RCRA Hazardous Waste, Respiratory Health, GHGs and Acidification.
- ~40-60% of above env. issues originate in operations; rest mostly originate in supply chain.
- Roughly 25% of supply chain-related env. issues are embodied in purchases of Electricity. (CHART)





Important Takeaways

- SMM Prioritization Tools have good coverage of the five NEAs (>90 good/service categories).
- Most of the most potentially significant opportunities for benefit and improvement for these example categories can be addressed through supply chain initiatives.
- Large portion of potential benefits are often concentrated in one or a few purchase categories.



Thanks! Questions?

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<https://www.epa.gov/smm/sustainable-materials-management-prioritization-tools>



Environmentally Preferable Purchasing (EPP) Program



Participate in key product & service sustainability standards



Assess & recommend specifications, standards, and ecolabels



Assist feds (and, in turn, others) in buying environmentally preferable products and services



Assist small businesses in selling their greener products and services to the federal government



Measure the benefits of buying green



Why Private Sector Standards?

Standards can:

- Address **multiple environmental & human health impacts** across the lifecycle (e.g., Energy Efficiency + Indoor Air Quality + Recovered Content)
- Be a **non-regulatory, collaborative approach** for addressing environmental issues
- Create a **clear path of progress** for industry, aligned with federal purchasing needs and broader marketplace demand
- Be a **vehicle to gather more data, access technical expertise outside government**
- Allow for **robust, open discussions** with key stakeholders in working groups





Ecolabels
Found in the
Global
Marketplace
Today (460+)



Product Categories in the Recommendations

*EPA Guidelines Assessment Pilot Category

Cafeteria

- Take-out Service: Containers, Cutlery, Dishware
- Commercial Dishwasher Detergent

Construction

- Adhesives
- **Carpet***
- Ceiling Tiles-Acoustical
- Fiberboard, Gypsum Panels, and Wallboard
- **Flooring***
- Insulation
- **Interior Latex Paint***

Office/Furniture

- Copy Paper
- **Furniture***

Custodial

- Cleaners: Carpet, Glass, Multipurpose
- Floor Care
- Hand Soap
- Toilet Tissue
- Towels – paper
- Wastebasket Liners (24" x 33" or smaller)

Machine Shop Operations

- Parts Wash Solution

Electronics

- Computers
- Imaging Equipment
- Mobile Phones
- TVs
- Recycling Services
- Servers

Grounds/Landscaping

- Deicer



EPA Recommendations of Specifications, Standards & Ecolabels

- Specify that products meet these standards/ecolabels in contracts
- Use the “find products” link on our website
- When there isn't a standard/ecolabel to address a hotspot, ask suppliers to disclose their performance
- See other ideas for greening procurement:
<https://sftool.gov/greenprocurement>



epa.gov/greenerproducts

Safer Choice-Certified Products



www.epa.gov/saferchoice/products

- More than 2,000 certified products
 - ~ **700** Retail
 - **1,300+** Industrial & Institutional
 - **400+** Fragrance-free



Certified Product Types



- **Household & Facility Cleaning**
 - All-Purpose Cleaners, Appliance Cleaners & Rinse Aids
 - Automatic Dishwasher Products
 - Carpet Cleaners & Floor Care Products
 - Degreasers
 - Dish Detergents & Soaps
 - Granite/Stone/Wood/Leather Cleaners
 - Kitchen/Countertop Cleaners
 - Laundry Detergents, Fabric Softeners & Pre-Treaters
 - Odor Removers
 - Pet Care Products
 - Toilet Bowl Cleaners
 - Tub/Tile Cleaners
 - Window/Glass Cleaners
- **Health & Beauty**
 - Hand Soaps
 - Pet shampoos
- **Automotive & Outdoor**
 - Aircraft Cleaning Products
 - Athletic Field Paint
 - Car Care Products
 - Deicers
 - Dust Control Products
 - HVAC Maintenance
 - Marine/RV Cleaners
 - Outdoor Furniture Cleaners
 - Parts Washers
- **FIFRA Disinfectants (certified under DfE)**



For MORE Information...

- SMM Organizational Prioritization Tool - <https://www.epa.gov/smm/organizational-smm-prioritization-tool>
- EPA's Sustainable Marketplace: Greener Products & Services - <http://www.epa.gov/greenerproducts>

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