

GREENWRENCH MAKES CENTS

AGENDA





Intro to GreenWrench



Program Elements



Source Reduction





INTRODUCTION



WHY WAS GREENWRENCH CREATED?

- 1. Critical source of pollution: Land, air and water
- 2. Unified Guidance
 - a) Natural Resources (stormwater)
 - b) Energy
 - c) Environmental Services (air and toxics)
 - d) Urban Sustainability
- 3. Funding from the EPA





GOAL

Help businesses become compliant with environmental regulations, protect the environment and improve their bottom line.

- 1. Onsite Technical Assistance
- 2. Workshops
- 3. Toolbox Newsletter
- 4. Certification Program





Target Audience

- Auto body and repair shops
- Businesses, universities, government, and others
- Small, medium, and large facilities





Benefits

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- Save money
- Receive onsite consultations and training
- Protect yourself from harmful substances
- Fits into your schedule
- Attract customers



Free to all registered participants



Languages

- English
- Spanish (Español)
- Amharic (አማርኛ**)**



PROGRAM ELEMENTS



TECHNICAL ASSISTANCE VISITS

Receive free technical assistance with confidential inperson visits by a consultant team.





TECHNICAL ASSISTANCE VISITS

Receive free technical assistance with confidential in-person visits by a consultant team.

- 1. Checklist- To determine estimated baseline of material and waste management.
- 2. Develop a customized Pollution Prevention (P2) Plan: *Walk through suggestions for areas that could help shop in reducing pollutants/saving money*
- 3. Follow-up to how plan is going



ADDITIONAL TECHNICAL ASSISTANCE

- Go through Automotive Pollution Prevention Guidebook
- Any additional compliance help and troubleshooting





WORKSHOPS

Learn and ask questions from government inspectors about how to comply with local and federal regulations.





NEWSLETTER

Find tips and tricks for reducing pollution and case studies in the Toolbox Newsletter





CERTIFICATION

GreenWrench Certification shows you are in compliance with environmental regulations and have taken additional steps to reduce land, air and water pollution.

Attract environmentally-conscious customers:

- List of certified shops on DOEE website
- Window decal







MEASURING SUCCESS:

- Use/disposal of toxic substances (pounds)
- 2. Air pollution (MTCO2e)
- 3. Water used (Gallons)
- 4. Money saved (Dollars)

DATA COLLECTION

GreenWrench collects information on these measures to help assess how effective the program is at reducing pollution.

- Checklists and certification worksheet
- Data is kept anonymous when shared with DOEE





SOURCE REDUCTION

Distant .



WHAT IS SOURCE REDUCTION?

 Any practice that reduces, eliminates, or prevents pollution at its source





WHAT CHANGES CAN YOU MAKE?

- Take a look at ways to reduce pollution
 - Alterative products
 - Alternative methods
 - Potential benefits
- Case studies





ALTERNATIVES TO TYPICAL PARTS CLEANING & LUBRICATION PRODUCTS

APPLICATION	TYPICAL PRODUCT	ALTERNATIVE PRODUCT	BENEFITS
Degreaser	 Petroleum-based solvents Chlorinated solvents 	 Water-based cleaners or EPA Safer Choice products (pick "degreaser" at EPA Safer Choice Website <u>https://www. epa.gov/saferchoice/products</u>) Steam Cleaner Parts washer with cleaning fluid that is non-solvent or water based 	 Non-toxic alternative/ safer for employees Non-hazardous waste alternative Cheaper to dispose of
All-purpose lubrication or corrosion inhibitor	 Petroleum-based all-purpose cleaner/ corrosion inhibitor Product with aliphatic hydrocarbons 	 Plant-oil based Free of Aliphatic hydrocarbons Biodegradable Reusable, pressurized aerosol cans Non-Aerosol and low-VOC products 	 Non-toxic alternative/ safer for employees Non-Hazardous waste alternative Cheaper to dispose of



CASE STUDY- MIKE'S AUTO BODY

Saved \$1,525 per year by switching to ecofriendly break cleaning and degreasing products.

- Biodegradable
- VOC compliant
- Free of harmful chemicals like surfactants, hydrofluoric acid, ammonium bifluoride, phosphate, and chlorine





Toxics Use Reduction Institute, Mike's Auto Body was recognized as a Champion of Toxics Use Reduction



ANTIFREEZE RECYCLING

Antifreeze can be easily and efficiently recycled

- Used antifreeze can be hazardous waste
- Recycled antifreeze is roughly half the cost of new product





ALTERNATIVES TO TIRE BALANCING, PATCHING & REPLACEMENT

APPLICATION	TYPICAL PRODUCT	ALTERNATIVE PRODUCT	BENEFITS
Tire balancing	• Lead wheel weights	 Aluminum, steel, zinc, and other non-lead wheel weights 	 Hazardous waste source reduction Reduce risk of lead poisoning Long-term cost savings
Tire Patching	 Solvent-based adhesives Cyanoacrylate (CA) adhesives Spray-adhesives 	 Water-based or brands that use nontoxic solvents Non-spray adhesives 	 Lower toxicity Improved respiratory health Cleaner air



ALTERNATIVES TO REDUCE ENERGY USE

APPLICATION	TYPICAL PRODUCT	ALTERNATIVE PRODUCT	BENEFITS OF ALTERNATE PRODUCT
Lighting	Incandescent blubsFluorescent blubs	• LED bulbs	 Reduced energy and bulb replacement costs LEDs are not universal waste
Vacuuming	 Gas/ diesel shop vacuum 	 Energy efficient shop vacuum 	 Reduced energy costs
Air compressors	 Conventional air compressor equipment 	 Energy-efficient air compressor equipment 	
Heating and air conditioning	Typical HVAC system	 Energy efficient HVAC system 	
Vending machines	 In use 24 hours 	 Plug-loaded occupancy sensor 	
Bay heating	 Used oil / used solvent heater 	 Energy efficient HVAC system 	 Legal to use in the District (used oil heaters are illegal)



ENERGY REBATES

District of Columbia Sustainable Energy Utility (DCSEU) helps businesses save energy and money through energy efficiency and renewable energy programs.

Rebates:

- >\$60 for ambient light fixtures and LED tube lighting
- \$2.75 per kBTu/hr for condensing furnaces (<225 kBtu/hr, AFUE>=95%)
- Custom rebates for ventilation and other equipment







CASE STUDY- AYT AUTO SERVICES

- AYT Auto Services in NE invested in rooftop solar panels in February 2019
- Goals: reduce operational costs & shop to be environmentally friendly
- Upfront costs were financed through DOEE



AYT Auto Services rooftop solar installation

Contact DOEE's Solar for All hotline at (202) 299-5271 or <u>solarforall@dc.gov</u>



ALTERNATIVE TO REDUCE SOLID WASTE

APPLICATION	TYPICAL PRODUCT	ALTERNATIVE PRODUCT OR PRACTICE	BENEFITS
Packaging	 Individually wrapped products Cardboard boxes 	 Buy in bulk to reduce packaging Reusable containers 	 Minimize waste Reduce costs
Office supplies	 Plastic binders Disposable pens Paper made from virgin product Standard cleaning products 	 Cardboard or metal binders Refillable pens Electronic bills and receipts Paper products made with recycled content Print double-sided Non-toxic cleaning products. Find a list at <u>www.epa.gov/</u> <u>SaferChoice/products</u> 	 Reduce solid waste and the amount of trash that goes to landfills
Food and drink	 Single-use cups Disposable water bottles 	 Water cooler/pitcher Reusable cups Buy in bulk Compost food and napkins 	 Reduce material to the landfill Reduces costs
Restrooms	 Paper towels and toilet paper made from virgin paper Regular faucet Standard cleaning products and hand soaps 	 Products made with recycled content Hand dryer Motion-activated faucet Non-toxic and sustainable cleaners and hand soaps. Find a list at <u>www.epa.gov/SaferChoice/</u> <u>products</u> 	 Reduce solid waste and the amount of trash that goes to landfills Reduce water use



GET INVOLVED

Sign up online or by calling 202-645-4231.

- 1. Technical Assistance
- 2. Workshops
- 3. Newsletter
- 4. Certification

Sign Up For GreenWrench

*Required

CE.E

Name *

Your answer

Contact Information *

Enter the phone number, email address, and/or address where you can be reached.

Your answer

doee.dc.gov/service/greenwrench



QUESTIONS?

Mary Polacek

Watershed Protection Division

mary.polacek@dc.gov

202-535-2261

doee.dc.gov/service/greenwrench



MEARE GOVERNMENT OF THE DISTRICT OF COLUMBIA DC MURIEL BOWSER, MAYOR

