

# EPP Products and Services Guide

**Updated: 2/10/2025**

Below please find an alphabetical listing of environmentally preferable products and environmentally preferable services that are found within statewide contracts. Click on one of the links below to bring you to the appropriate section in this Guide with summary information. Click on the appropriate contract number to bring you to the [Contract User Guide \(CUG\)](#). The CUG provides summary purchasing information about the contracts.

To use Commonwealth contracts and to view the most recent contract information, including a full list of vendors, visit [COMMBUYS \(www.COMMBUYS.com\)](http://COMMBUYS.com) and search the appropriate contract number.

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PRODUCTS	Contract Title	Contract # (links to CUG)	Product Description
Alternative Snow and Ice Products	Environmentally Preferable Cleaning Products, Programs, Equipment and Supplies	<a href="#">FAC118</a>	<p>Alternative snow and ice products are available in Category 1 of FAC118 and may be available on any of the MRO contracts if requested. It is also available on the VEH119: Road Salt contract. These products provide environmentally preferable alternatives to the use of sodium chloride (salt) for deicing walkways, parking lots, and roadways. For it to be considered an environmentally preferable snow and ice melt product, it must be recognized under the <a href="#">US EPA's Safer Choice</a> labeling program, <a href="#">GreenSeal</a>, or the <a href="#">Clear Roads Qualified Products List</a> (other than in Category 8 of this List: Non-Corrosion-Inhibited Sodium Chloride).</p> <p><b>Why replace road salt?</b></p> <p><i>Every winter, millions of tons of road salt used to deice U.S. roads eventually wash away, either when the snow melts or when the spring rains arrive. Salt corrodes vehicles, bridges, and other metal structures, and its accumulation and persistence pose a risk to water quality and the plants, animals, and humans who depend upon the water. In bodies of water, such as lakes, rivers, and local ponds, salt run-off raises the salinity of the water while reducing dissolved oxygen levels, creating conditions that may negatively impact native wildlife. In the soil, salt primarily causes dehydration which leads to foliage damage, but also causes osmotic stress that harms root growth. Particularly high concentrations of sodium and chloride may be found in snow melt, which many animals drink to relieve thirst, potentially causing salt toxicity including dehydration, confusion and weakness, among other symptoms, according to the <a href="#">New Hampshire Department of Environmental Sciences</a>.</i></p> <p><i>Additives to road salt like ferrocyanide, which is used as an anti-caking compound in large salt supplies, may have impacts on both the environment and human health due to cyanide ions being released by certain types of bacteria as well as from</i></p>
	Maintenance Repair and Operations Retail Products and Supplies	<a href="#">FAC119</a>	
	Building Maintenance Repair and Operations	<a href="#">FAC124</a>	
	Road Salt	VEH119	

			<p>exposure to sunlight. In 2003, the US EPA added this compound to its list of toxic pollutants under section 307(a) of the Clean Water Act. Other potential components and impurities of road salt may include calcium, potassium, iron, magnesium, aluminum, lead, phosphorus, manganese, copper, zinc, nickel, chromium, and cadmium as highlighted in the <a href="#">US EPA's Source Water Protection Practices Bulletin Managing Highway Deicing to Prevent Contamination of Drinking Water</a>.</p>
Alternative Vehicle Technologies and Charging Stations	Advanced Vehicle Technology Equipment, Supplies, and Services	<a href="#">VEH102</a>	<p>This contract is for acquisition of advanced vehicle and alternative transportation equipment, hardware, software and services including, but not limited to:</p> <ul style="list-style-type: none"> <li>• EV charging station equipment, hardware, software, and ancillary services.</li> <li>• Idle reduction equipment for heavy equipment and heavy, medium, and light duty vehicles, including solar auxiliary power systems.</li> <li>• After-market conversion technologies for all vehicle classes. These systems modify vehicles and engines so they run on – or may be supplemented by – fuels or technologies other than the ones for which they were originally designed. Products offered in this category must be certified by one of the following: <a href="#">EPA Vehicle and Engine Alternative Fuel Conversions</a>, <a href="#">California Air Resources Board</a> (CARB), a nationally recognized testing laboratory, or manufacturer certification that includes a warranty protection statement.</li> </ul>
Antifreeze (Remanufactured)	Automotive Parts, Paint, Refined Motor Oil, Lubricants, and Other Fluids	<a href="#">VEH114</a>	This contract provides recycled antifreeze made from 100%-recycled ethylene glycol in both ready-to-use and concentrated forms in one gallon, 55-gallon drums, and bulk quantities.
APS Eligible Liquid Biofuel	No.2 Heating Fuel and APS Eligible Liquid Biofuel	<a href="#">ENE52</a>	This contract includes biofuel that meets the <a href="#">Alternative Portfolio Standards (APS)</a> , which has a minimum requirement of 10% biofuel. Note that all state agencies, per <a href="#">Executive Order 594</a> : Decarbonizing and Minimizing Environmental Impacts of State Government, shall follow the EO's <a href="#">Section 4D and Section 5D Guideline for Heating Oil and Biodiesel</a> at their facilities.
Art and Instructional School Supplies, Environmentally Preferable	Art and Instructional School Supplies	<a href="#">OFF51</a>	<p>This contract is a Cooperative Purchase Agreement between the Commonwealth of Massachusetts and the State of Connecticut. All crayons, markers, highlighters, and paints offered on this contract are required to have an <a href="#">Art &amp; Creative Materials Institute</a> (ACMI) certification. Buyers should ask for products with recycled content, without high-hazard chemicals such as lead or asbestos, ketones or xylene, acetone, phthalates, and fragrances; and choose markers that are low odor or water-based and fragrance-free.</p> <p>For all other products under this contract, it is recommended to select items with any one or more of the following environmentally preferable certifications/standards:</p> <ul style="list-style-type: none"> <li>• Art &amp; Creative Materials Institute (ACMI)</li> <li>• Biodegradable Products Institute (BPI)</li> <li>• Consortium for Energy Efficiency (CEE)</li> <li>• Cradle to Cradle (C2C)</li> <li>• Design Lights Consortium (DLC)</li> <li>• Electronic Product Environmental Assessment Tool (EPEAT)</li> <li>• EPA ENERGY STAR</li> <li>• EPA WaterSense</li> <li>• Forest Stewardship Council (FSC)</li> <li>• Good Environmental Choice Australia (GECA)</li> <li>• Green Circle Certified</li> <li>• Green Screen Certified</li> <li>• Green Seal</li> <li>• Green Squared</li> <li>• International Living Future Institute – Declare Level – BIFMA</li> <li>• Organic Materials Review Institute (OMRI)</li> <li>• Scientific Certification Systems (SCS) Indoor Advantage Gold</li> <li>• Smart Certified (SMaRT)</li> <li>• Sustainable Forestry Initiative (SFI)</li> <li>• TUR Rheinland Green Products Mark</li> <li>• UL EcoLogo</li> <li>• UL GREENGUARD Gold</li> <li>• US EPA Safer Choice</li> <li>• USDA Biopreferred Program</li> <li>• USDA Certified Biobased</li> <li>• Vincotte</li> <li>• EPA Comprehensive Procurement Guidelines for</li> </ul>

		<ul style="list-style-type: none"> <li>• IDA Dark Sky Approved</li> </ul>	<p>Recycled Content</p> <p>Refer to the <a href="#">Healthy Products for Healthy Schools Toolkit</a> by the Healthy Schools Network on tips for purchasing environmentally preferable art supplies. This includes:</p> <ul style="list-style-type: none"> <li>• Identifying art supplies certified “AP”, meaning they are certified non-toxic, by the <a href="#">Art &amp; Creative Materials Institute (ACMI)</a>.</li> <li>• Choosing “recycled” content.</li> <li>• Choosing products free from hazardous chemicals like lead, asbestos, ketones, xylene, acetone, phthalates, and fragrances, commonly present in markers.</li> <li>• Specify low odor or water-based and fragrance free when purchasing markers.</li> </ul> <p><i>Arts and craft supplies can contain toxic ingredients that, when used or stored in a classroom or play area, may create health risks for some children. Lead, asbestos, and petroleum-based solvents sometimes are used to preserve art products, enhance their colors, or make them easier to apply. According to the Coalition for Healthier Schools Guidance listed above, these toxic ingredients may trigger acute effects such as asthma attacks or headaches and nausea, especially if used in a poorly ventilated area. Some inks, adhesives, dyes, and clays contain chemicals that may cause adverse health effects in adults after occupational exposures. Children are more sensitive to the negative effects of toxic chemicals.</i></p>
Audio, Visual, and Multimedia Presentation Equipment	Audio, Video, Multimedia Presentation Equipment, Supplies and Services	<a href="#">OFF50</a>	Vendors on this contract are required to offer products registered by <a href="#">EPA’s ENERGY STAR program</a> , including but not limited to audio/video equipment, digital media players, and televisions. When purchasing televisions, it is recommended to specify those which are <a href="#">EPEAT</a> registered.
Bio-based Lubricants, Equipment and Automotive	Automotive Parts, Paint, Refined Motor Oil, Lubricants, and Other Fluids	<a href="#">VEH114</a>	<p>Vegetable oils (bio-based products) are included in several oil/fluid products on this contract. These products, made from corn, canola, soy, and other vegetable oils, are used to produce a wide range of lubricants. The majority of companies manufacturing plant-based lubricants have focused primarily on industrial oils. Within this category, certain applications are best suited for plant-based lubricants, including hydraulic oils, total loss lubricants, metalworking oils, and other general oils. The bio-based lubricants on this contract meet Original Equipment Manufacturer (OEM) product requirements and use the same American Society for Testing Materials (ASTM) standards as petroleum-based fluids.</p> <p><i>According to the <a href="#">US Environmental Protection Agency</a>, re-refined oils are recycled, and, therefore, help reduce the depletion of natural resources by using less crude oil; it only takes one gallon of used oil to make 2.5 quarts of re-refined oil; whereas it takes 42 gallons of crude oil to make 2.5 quarts of virgin oil.</i></p>
Biodiesel	Diesel Fuels: Ultra Low Sulfur Diesel and Biodiesel	<a href="#">ENE53</a>	Biodiesel is a renewable fuel made from agricultural resources, vegetable oils, and/or animal fats, that all provide the same amount of energy. Biodiesel reduces particulate matter and tailpipe emissions that impact climate change, such as carbon dioxide (CO2) [although some increase in nitrogen dioxide (NOx) may occur depending on the duty cycle of the engine]. Biodiesel is available in blends of B5, B10, B15, and B20 (20% biodiesel, 80% ULSD when available) for spring and summer months. Biodiesel is nontoxic, biodegradable, and suitable for sensitive environments, making biodiesel spills far less harmful to the environment and much less expensive to clean up than a diesel spill.

## Building Materials and Supplies

Maintenance Repair and Operations  
Industrial and Building Retail  
Products

[FAC119](#)

Facilities Maintenance, Repair &  
Operations (MRO) Industrial  
Supplies

[FAC123](#)

Building Maintenance, Repair and  
Operations (MRO)

[FAC124](#)

These three contracts include a wide selection of environmentally preferable MRO products for buyers. Vendors are required to label third-party certified products in their online catalogues. There are certain restrictions on products and chemicals as described below, along with providing an Environmental Product Declaration (EPD) as applicable.

It is recommended to choose products with the following environmentally preferable certifications or attributes:

- Biodegradable Products Institute (compostable bags and food service ware)
- Carpet and Rug Institute Seal of Approval (powered janitorial equipment)
- Carpet and Rug Institute Green Label Plus (adhesives, caulks, sealants)
- Certified Formaldehyde-free (insulation)
- Cradle to Cradle (building materials, construction adhesives, paint)
- Cradle To Cradle (silver level or higher, includes cleaning products, paints, primers, and coatings, insulation, wallboard)
- Declare Red List Free (insulation)
- Design Lights Consortium (commercial LED lighting and networked lighting controls equipment)
- ENERGY STAR (appliances, HVAC, LED lighting and controls equipment, water heating, storm windows, etc.)
- Environmental Choice New Zealand (paint)
- Environmental Procurement Electrical Assessment Tool (EPEAT - solar)
- EPA Design for the Environment (sanitizers and disinfectants)
- Forest Stewardship Council (wood and paper products)
- Global Recycled Standard
- Good Environmental Choice Australia (GECA) (paints & coatings)
- Green Seal (adhesives, cleaners, deodorizers, degreasers, floor polish/strippers, hand soaps, janitorial paper products, paints, windows)
- Greenwise Gold (paint)
- International Dark Sky (lamps, bulbs)
- LUNA (luminaires/fixtures)
- LEED – qualifies for LEED credits
- Master Painters Institute (MPI) Green Performance Standard Extreme Green (paints and coatings)
- Material Health Certified (ceiling tiles, insulation, wallboard)
- NEMA Premium Efficiency (motors and ballasts)
- RoHS (electrical equipment)
- SCS FloorScore (carpet, flooring, flooring adhesives, underlayment)
- SCS Indoor Advantage Gold (certified low emitting, includes adhesives, building materials, furniture, paints and coatings, cleaning products, ceiling tiles, wallboard)
- Sustainable Materials Rating Technology (SMaRT) (building products)
- UL EcoLogo (ECOLOGO) (cleaners, deodorizers, degreasers, disinfectants/sanitizers, graffiti removers, hand soaps/sanitizers, floor polish/strippers, janitorial paper products, insulation, wallboard)
- UL GREENGUARD Gold (adhesives, flooring, insulation, sealants, paints, coatings, wallboard, etc.)
- US EPA Climate Friendly Refrigerant
- US EPA Safer Choice (cleaners, hand soaps, deicers, dish/laundry detergents, furniture/metal polish, graffiti removers, etc.)
- US EPA WaterSense (water-efficient fixtures, toilets, irrigation equipment)
- USDA Biobased (lubricants, building materials, paints, coatings, adhesives, caulks and sealants)

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**Specifications:****FAC123:**

- Vendors are required to comply with all of the FAC124 specifications below.
- Vendors selling cleaning products on this contract must comply with the FAC118: Environmentally Preferable Cleaning Products, Programs, Equipment and Supplies specifications.

**FAC124:**

Vendors on this contract are required to offer environmentally preferable products in all five categories and provide an EPP and Climate Preferable Products catalog with their price file. Mandatory and desirable EPP specifications are summarized below. For a full description of the specifications view Attachment A: Mandatory Specifications and Desirable Criteria found in the [FAC124 MBPO](#):

Cat #	Category Name	EPP Products/Services Available
1	Electrical and Lighting Products and Supplies	<ul style="list-style-type: none"><li>• Light Emitting Diodes (LEDs) and Organic Light Emitting Diodes (OLEDs) Fixtures/Lumieres only.</li><li>• All LED luminaires, fixtures, replacement lamps, and lamps with integrated drivers sold under this contract must be currently on one of the following lists: <a href="#">Design Lights Consortium</a> (DLC), <a href="#">ENERGY STAR</a> and exterior fixtures should meet the <a href="#">International Dark-Sky Association Fixture Seal of Approval</a> or meet the <a href="#">Envision Sustainable Infrastructure Certification</a> requirements.</li><li>• All LED electronic drivers must be UL- or cUL- listed, have a minimum warranty of 5 years and be RoHS - compliant.</li><li>• Networked lighting control systems must meet the DLC Networked Lighting Control System technical requirements and be listed on the DLC's Qualified Product List.</li><li>• It is desirable to provide EPEAT registered solar panels.</li></ul>
2	LED Roadway and Outdoor Area Lighting	<ul style="list-style-type: none"><li>• All fixtures must be listed on the <a href="#">DLC Qualified Products List</a>.</li><li>• Fixtures shall comply with International Dark Sky Association guidelines or be DLC LUNA certified and shall be included on either list of Approved Fixtures.</li><li>• 80% of the luminaire material by weight should be recyclable at end of life and designed for ease of component replacement and end-of-life disassembly.</li><li>• Fixtures must have 10-year warranty and comply with multiple standards.</li><li>• Networked lighting control systems must meet the DLC Networked Lighting Control Systems technical requirements and be listed on the <a href="#">DLC's Qualified Product List</a>.</li></ul>
3	Plumbing and Heating Products and Supplies	<ul style="list-style-type: none"><li>• Includes <a href="#">EPA WaterSense</a> products including toilets, urinals (including waterless options), faucets, showerheads, and landscape irrigation products.</li><li>• Includes <a href="#">EPA ENERGY STAR certified</a> products including high efficiency electric heat pump water heaters and commercial heat pump water heaters.</li><li>• Includes solar thermal hot water systems.</li><li>• Includes alternatives to PVC (Polyvinyl Chloride) piping, including but not limited to low-emitting PVC and CPVC compounds.</li></ul>
4	HVAC and Refrigeration Products and Supplies	<ul style="list-style-type: none"><li>• All applicable products must be <a href="#">ENERGY STAR</a> certified.</li><li>• <a href="#">Air source</a> heat pumps and <a href="#">ground source</a> heat pumps must also meet the Alternative Energy Portfolio Standard criteria when possible.</li><li>• It is preferable that air-source heat pumps should also meet the ENERGY STAR Cold Climate Certification standard or the <a href="#">Northeast Energy Efficiency Partnership (NEEP)</a></li></ul>

**Refrigerants**

- Equipment must contain low GWP substitutes approved under United States Environmental Protection Agency's Significant New Alternative Policy (SNAP) program and permissible under state regulations, including [310 CMR 7.76 Prohibitions on Use of Certain Hydrofluorocarbons](#).
- It is preferable that products have a lower GWP, to the maximum extent practicable where such products are cost-effective (using life cycle-climate performance (LCCP)) and meet form, function, and utility requirements.

**Space Heaters**

- It is preferable to select electric infrared over any gas/propane equipment.

5	Building Envelope and Related Materials	<p><b><u>Roofing Products and Supplies</u></b></p> <ul style="list-style-type: none"><li>• Includes sustainable roofing materials (SRM's) made with recycled or low embodied carbon materials, and/or promote the use of renewable energy sources, and/or will reduce energy use for a building by lowering the roof surface temperature and decreasing the amount of heat transferred into the building.</li><li>• SRMs should meet or exceed manufacture, installation and performance requirements as set forth in the most current version of the LEED (<a href="#">Leadership in Energy and Environmental Design</a>) green building standards and/or meet other third-party sustainable certifications such as the Living Building Challenge. SRMs should also meet recommendations from the <a href="#">Energy Star Cool Roofs website</a> or the <a href="#">Department of Energy Cool Roof website</a>.</li><li>• Any aluminum facade must have at least 50% recycled content.</li><li>• It is preferable to select products:<ul style="list-style-type: none"><li>○ approved by the <a href="#">Cool Roof Rating Council</a> (CRRC), a non-profit organization whose mission it is to promote credible radiative properties of roof materials.</li><li>○ with recyclable roof membrane that does not need to be glued or overly adhered to roof decks for easier reuse and recycling.</li><li>○ That comply with the <a href="#">EPA's CPG for Roofing Materials</a> for recycled content.</li><li>○ that support installation and upkeep for green roof systems.</li></ul></li></ul> <p><b><u>Lumber Products and Supplies:</u></b></p> <p>This contract includes sustainably harvested forest products, recycled plastic resin, or recycled plastic composites, and/or landscape timbers. Choose lumber that is certified through the <a href="#">Forest Stewardship Council (FSC)</a> and/or the <a href="#">Sustainable Forestry Initiative (SFI)</a> and/or <a href="#">Programme For The Endorsement Of Forest Certification Schemes (PEFC)</a> for sustainably grown and harvested lumber. All plastic lumber must contain a certain minimal percentage of post-consumer plastic material, as defined in the specifications. It is desirable that Bidders offer products that are derived from sustainably managed forests (as defined in this RFR) that are located within a 500 miles radius from the project site. Those Bidders providing specific information on these products in the Response will be given additional consideration in the RFR evaluation process.</p>
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#### **Envelope Systems, Products and Supplies**

- **Insulation:** choose insulation that is compliant with the [EPA's Comprehensive Procurement Guidelines for building insulation](#).
- **Structural Fiberboard:** choose structural fiberboard that is compliant with the [EPA's Comprehensive Procurement Guidelines for structural fiberboard](#).
- It is preferable to select products that:
  - promote healthier indoor air quality as specified by the most current version of LEED.
  - meet or exceed ASHRAE Standard 90.1 2010.
  - are formaldehyde free.

#### **Concrete and Masonry Products and Supplies**

- Ask for alternative concrete and masonry products that includes at least 15-25% fly ash. In addition, cement, concrete, and flowable fill must comply with the following:
- **Cement and Concrete:** must comply with [EPA's Comprehensive Procurement Guidelines For Cement and Concrete](#) which incorporates recycled content including coal fly ash, ground granulated blast furnace slag (GGBF slag), cenospheres or silica fume.
- **Flowable Fill:** must comply with the [EPA's Comprehensive Procurement Guidelines for Flowable Fill](#).
- It is preferable to select products that meet the [GreenNY Lower Carbon Concrete specifications](#).

#### **Paint Products and Supplies**

**Interior latex wall and ceiling paint and primer:** must have at least one of following multi-attribute low-toxicity certifications:

- Cradle to Cradle Certified or Material Health Certificate: at the Gold level or higher;
- Green Seal;
- Greenwise Gold; or
- Master Painters Institute (MPI) Extreme Green.

Additionally, it is preferable to select PFAS-free paint and primer.

**Specialty paint, primer or coating products, non-recycled:** must comply with the applicable CA South Coast Air Quality Management District (SCAQMD) limit on volatile organic compounds (VOCs); OR have a VOC content that does not exceed 100 grams/liter OR have at least one of the following environmental and/or health third-party certifications:

- Multi-attribute green certifications (preferred): Cradle to Cradle Certified or Material Health Certificate Silver level or higher, Green Seal, MPI Green Performance Standard (Extreme Green, GPS-2 or GPS-1), or Safer Choice (covers spray paint only)
- OR single-attribute green certifications: SCS Indoor Advantage Gold (low emitting), UL GREENGUARD Gold (low emitting), or USDA Certified Biobased.

Additionally, it is preferable to select PFAS-free products and/or those that meet the [GreenNY specifications on Paint, Primer & Coatings](#).

The following are prohibited ingredients for **non-recycled paints**:

- 1,2-dichlorobenzene
- Alkylphenol ethoxylates (APEs)
- Formaldehyde-donors
- Heavy metals, including lead, mercury, cadmium, hexavalent chromium and antimony in the elemental form or compounds
- Phthalates
- Triphenyltins (TPT) and tributyl tins (TBT)
- PCB
- Triclosan

**Zone and Traffic Marking Coatings:** must be free of lead.

- Waterborne Traffic Marking Coatings must meet federal specification [TTP-1952E](#), which includes restrictions on lead, hexavalent chromium and other chemicals of concern as well as a VOC limit of 150 grams/liter.
- All Zone Marking Paint must be waterborne and have a VOC content of 100 grams/liter or less. It is preferable to select products on the [MPI Green Performance Standard Approved List](#) (Category 97) and/or those that meet the [GreenNY Specification for Pavement Marking Paints](#).

**Recycled paints:** It is preferable to select recycled or reprocessed paints. Such paints must be:

- Green Seal certified by the GS-43 Recycled Content Latex Paint Standard OR
- Adhere to CPG For Consolidated and Reprocessed Latex Paint for Specific Uses for specific recovered content.
- Adhere to the most current VOC specifications for conventional paints used for the same applications.

Other desirable specifications for all paint types listed above:

- Vendors offer a Recycling/Take Back Program.
- Vendors offer consumer education on paints.
- Paint packaging contains a minimum of 20% recovered material content.

#### **Ceiling Tiles and Components**

- It is required that acoustical ceiling tiles meet the [EPA CPG for Laminated Paperboard](#).
- It is desirable to select products that:
  - meet federal requirements as outlined in [GSA's Sustainable Facilities Tool for Acoustical Ceiling Tiles](#).
  - include a ceiling tile take back program that reuses or recycles acoustical ceiling

- tiles.
- o meet the [NYS Green Spec for Acoustical Ceiling Tiles and Panels](#).

#### **Drywall and Drywall Components**

- It is required that drywall meet the [EPA CPG for Structural Fiberboard](#) and that there be multiple natural gypsum options.
- It is preferable to select products that:
  - o meet federal requirements as outlined in [GSA's Sustainable Facilities Tool for Wallboard/Gypsum Board/Drywall](#).
  - o avoid pre-consumer recycled content (also known as synthetic gypsum or FGD) to avoid the release of mercury in manufacture.
  - o are sold by vendors providing a gypsum takeback program that recycles product.

#### **Doors and Hardware**

- Applicable products should carry the U.S. EPA's ENERGY STAR certification.
- Prefer products made without vinyl.
- For composite wood doors, prefer options made from materials with NAF (No Added Formaldehyde) or ULEF (Ultra Low Emitting Formaldehyde)

#### **Window Components and Hardware**

- Applicable products should carry the [U.S. EPA's ENERGY STAR certification](#).

#### **Building Materials and Components**

- For structural steel, it is preferable to select products that contain at least 50% post-consumer recycled content.

Cell Phones	Contract Cellular Services & Devices  Network Services, Communications Services & Related Equipment	<a href="#">ITT72</a>	It is recommended for buyers to request phones that are registered by the <a href="#">Electronic Products Environmental Assessment Tool (EPEAT)</a> . Devices that are not EPEAT registered are required to comply with specifications that relate to: battery removability/replacement by qualified repair service providers or authorized repair providers; ease of disassembling mobile phone; availability of replacement parts; compliance with the European Union REACH Regulation; compliance with the European Union RoHS Directive; post-consumer recycled plastic and biobased plastic content; battery charger systems; and packaging.
Cleaning Products, Programs, Equipment, and Supplies,	Environmentally Preferable Cleaning Products, Programs, Equipment & Supplies	<a href="#">FAC118</a>	It is also desirable for vendors to offer a take back program.  This is a multi-state "all green" contract led by the Commonwealth with 4 categories of environmentally preferable cleaning products, equipment, and supplies that also includes green cleaning technologies. Green chemicals and janitorial paper products included in this contract are required to be "Independently Third-Party Certified," which means that the environmental claims, as well as the product's performance, have been tested and certified by an established and legitimate, nationally recognized third-party certification program. The only chemicals without such certification are the disinfectants and various sanitizers, for which no third-party certification is available. In addition, vendors were selected for their ability to provide assistance in transitioning eligible entities to green cleaning programs.

## Environmentally Preferable

The categories of products and services and their required specifications are noted below:

Cat #	Category Name	EPP Requirements
1	Cleaning, Facility Maintenance Chemicals, Disinfectants and Sanitizers	GreenSeal, UL Ecologo, and US EPA's Safer Choice Disinfectants and Sanitizers must meet Safer Choice Ingredient requirements.
2	Janitorial Supplies, Equipment and Services	GreenSeal, UL Ecologo, US EPA's Safer Choice in addition to recycled content requirements, BPI or CMA certification required for liners
3	Disposable Janitorial Paper Products	GreenSeal and UL Ecologo and meet CPG recycled content requirements
4	Powered Janitorial Equipment, Supplies and Service	CRI Seal of Approval or GreenSeal for some equipment

A full list of in-depth specifications may be found in *Attachment A: Mandatory Specifications and Desirable Criteria* in the [FAC118 Master MBPO](#) listed in COMMBUYS. To access policy information, guidance, and case studies concerning green cleaning products, [visit the EPP Green Cleaning Products, Programs, Equipment and Supplies webpage](#).

Clothing, Environmentally Preferable	Clothing, Uniforms, Footwear, Accessories and Personal Care Products	<a href="#">CLT08</a>	<p>This contract includes a category (no. 7) for "environmentally preferable clothing." Items in this category may be made with recycled materials (e.g., recycled polyester and/or PET plastic), organically grown cotton, be bleached without the use of chlorine, or similar environmental attributes. Contact vendors to request additional information on the products provided.</p> <p><i>Such products typically represent a significant energy savings in the manufacturing process and may not require dry cleaning, which may help reduce the use of toxic chemicals.</i></p>
Compostable/Bio-degradable Dishware Supplies	Foodservice Supplies & Equipment, Institutional Commercial Grade, Large & Small	<a href="#">GRO40</a>	<p>This contract provides grocery-related items/foodservice supplies such as cups, napkins, plates, straws, trays, toilet paper, paper towels, forks, spoons, knives, among others. Products that are biodegradable/compostable offer an environmentally preferable and sustainable alternative to conventional disposable foodservice ware. Biodegradable products may be made from fibers, resins, or other materials that may be composted in most municipal and/or industrial composting facilities and comply with the American Society of Testing and Materials (ASTM) d6400-99 specifications for compostable plastics and ASTM d6868 specifications for biodegradable plastic coatings on paper and other compostable substrates. Acceptable third-party certifications for compostable foodservice ware include:</p> <ul style="list-style-type: none"> <li>• <a href="#">Biodegradable Products Institute (U.S.) (BPI)</a></li> <li>• <a href="#">Compost Manufacturers Alliance (CMA)</a></li> </ul> <p>Both BPI and CMA do not allow intentionally added fluorinated chemicals, such as Per- and polyfluoroalkyl substances, or PFAS (as demonstrated in Safety Data Sheets) and requires testing showing less than 100 ppm total fluorine.</p> <p>Buyers should also ask for products certified by <a href="#">GreenScreen for Single-Use Food Service Ware (FSW)</a> and the <a href="#">Forest Stewardship Council (FSC)</a> or <a href="#">Sustainable Forestry Initiative (SFI)</a>, which means they are made with sustainably harvested bio-based materials.</p>
Computers, Desktop Laptops, Monitors, Servers,	IT Hardware and Services	<a href="#">ITC73</a>	<p>ITC73 covers a broad range of computer equipment and related services and requires all desktops, notebooks, tablets, integrated desktop computers, and displays provided under this contract to have achieved either Silver registration or higher under the <a href="#">Electronic Products Environmental Assessment Tool (EPEAT)</a> or <a href="#">TCO Certification</a>. Both are procurement tools designed to help purchasers evaluate, compare, and select equipment based upon their sustainability attributes. This</p>

<p>New, Used and Refurbished</p>	<p>includes environmental criteria that address the full product lifecycle, from energy conservation and toxic materials to product longevity and end-of-life management, ultimately reducing the environmental impact across the product lifecycles.</p> <p>In addition, Category 1 of ITC73 allows for the purchase of re-furbished computers. All servers, multi-node-servers and rack servers provided under this contract are preferred to have achieved Bronze registration or higher from EPEAT.</p>
<p>Copiers, Printers, Scanners and Multifunctional Devices</p>	<p>Copiers, Printers, Scanners, and Related Devices and Service <a href="#">ITC80</a></p> <p>This contract covers the purchase, lease or rental of energy-efficient copiers, printers, digital duplicators, scanners, faxes, and related services and supplies. Equipment available on this contract has a variety of environmental attributes that are beneficial for the environment and are associated with measurable cost savings from reduced paper and energy usage:</p> <ul style="list-style-type: none"> <li>• <b>EPEAT Bronze Registration:</b> All copiers, multifunctional devices, printers and scanners must meet the <a href="#">Electronic Procurement Environmental Assessment Tool (EPEAT)</a> Bronze registration or higher to be sold on the contract. EPEAT is an ecolabel that provides independent verification of manufacturers’ environmental claims.</li> <li>• <b>Remanufactured Equipment:</b> Remanufactured copiers are available for purchase and undergo extensive refurbishing after a period of use before they are offered for resale or rental. With remanufactured equipment, the features, functions, and model number remain the same. Under the terms of the contract, remanufactured equipment is held to the same performance standards as new equipment.</li> <li>• <b>Remanufactured Toner Cartridges:</b> There is a wide selection of high-performing third-party certified remanufactured toner available on this contract. In addition, the <a href="#">joint enterprise printer cartridge acquisition policy</a>, issued by the Operational Services Division and the MassIT (now the Executive Office of Technology Services and Security (EOTSS)) on October 31, 2012, requires all Executive Department agencies, and Non-executive Department agencies using commonwealth information technology capital funds <b>to purchase remanufactured laser print toner cartridges when available</b>. The policy is aimed at increasing the purchase and use of remanufactured laser printer cartridges throughout the Commonwealth of Massachusetts Executive Department agencies by 40% during Fiscal Year 2013 (FY13) and by a minimum of 10% annually thereafter. Visit the <a href="#">EPP Program’s Remanufactured Toner Cartridge webpage</a> for more information and guidance on purchasing remanufactured toner cartridges.</li> <li>• <b>Toner Cartridge Return:</b> All vendors provide no-charge methods of returning empty cartridges.</li> <li>• <b>Networking Capabilities:</b> The vast majority of copying equipment available on the contract may be connected to a computer network and serve as a printer. <i>Note that prints produced by networked copiers are less expensive.</i></li> <li>• <b>Multifunctional Capabilities:</b> Most of the equipment available performs more than one office function, including scanning to email and scanning to computer memory. <i>Review the additional capabilities of the equipment and use them to reduce paper usage and make document storage and retrieval easier.</i></li> <li>• <b>Energy-saving Features:</b> All equipment is required to be delivered with energy-saving features enabled. Most models are Energy Star-compliant. <i>Ensure that the energy-saving features are properly installed and remain enabled as the equipment is used.</i></li> <li>• <b>Duplex Copying and Printing:</b> Copiers with speeds faster than 15 copies per minute, printers faster than 21 pages per minute, and fax machines that print six pages per minute must have duplexing features.</li> </ul> <p><i>Set duplexing as the default mode for all equipment when available. Notify staff about the change and educate them about making single-sided copies and prints only when necessary. This practice typically results in savings of at least 10-30% on office paper compared to offices where double-sided copying is available but is not set as a default</i></p>
<p>Electrical and Lighting Supplies and Equipment, Energy Efficient</p>	<p>Supplies</p> <p>Maintenance Repair and Operations Retail Products and Supplies</p> <p>Facilities Maintenance, Repair &amp; <a href="#">FAC119</a></p> <p>All MRO contracts provide a wide variety of energy efficient electrical lighting products and supplies, including Light Emitting Diodes (LEDs), materials and services, LED exit signs, LED Roadway and outdoor area lighting, and a variety of value-added services. Many of the products and services available on these contracts are associated with significant energy and cost savings. Specifications are listed above in the <a href="#">Building Materials and Supplies Descriptions</a> for FAC101, FAC119, and FAC124.</p> <p><b>Value Added:</b></p>

	Operations (MRO) Industrial  Building Maintenance, Repair and Operations (MRO)	<a href="#">FAC123</a>  <a href="#">FAC124</a>	Many of the vendors will perform a free energy audit, identify opportunities to convert to more efficient lighting equipment, and recommend energy-saving practices. While retrofits come at an upfront cost, the resulting energy savings cover the upfront cost within a short period of time. The vendors also obtain utility rebates that further reduce the cost of the retrofits. Many vendors also provide bulb and lighting fixture recycling. <b>State agencies</b> should contact the <a href="#">Division of Capital Asset Management and Maintenance</a> or the <a href="#">Leading by Example</a> program to identify technical and financial assistance opportunities.
Firefighting Foam, Environmentally Preferable	Public Safety Equipment, Supplies, Services and Repairs	<a href="#">PSE01</a>	All vendors offering firefighting foam under this contract are required to also provide <a href="#">GreenScreen Certified</a> fire-fighting options. Such foams require manufacturers to disclose all intentionally added chemicals in the product, require analytic testing to ensure products are free from Per- and Polyfluoroalkyl Substances (PFAS), and prohibit over 2,000 other chemicals of high concern.
Fertilizers, Organic and Other Environmentally Preferable Landscaping Applications	Landscaping Products, Parks and Recreation Equipment and Related Products, Supplies and Service	<a href="#">FAC122</a>	<p>This contract includes liquid Certified Organic fertilizers and soil amendments (compost &amp; mulch). Certified organic means it is uses a nationally recognized certifying body such as the <a href="#">Organic Materials Review Institute (OMRI)</a> and <a href="#">National Organic Program (NOP)</a>. Vendors for these products will meet with your facility individually to provide an overview of the products and process and assist with the implementation of a program.</p> <p><i>Certified organic fertilizers are carbon-based compounds made from natural material that are non-toxic, biodegrade, and do not contain chemical pesticides or herbicides. Organic fertilizers add organic matter that helps soils retain moisture and nutrients which are beneficial for plant health.</i></p>
Floorcoverings and Accessories	Floorcoverings and Accessories, Floorcovering Installation, Maintenance and Repairs	<a href="#">FAC98</a>	<p>Many of the products offered on this carpet and flooring contract require mandatory third-party environmental certification. Contractors have disclosed chemicals and ingredients, identified product labeling capabilities and whether product lines have an <a href="#">Environmental Product Declaration (EPD)</a>. View the price sheets listed in <a href="#">COMMBUYS</a> to identify specific products meeting these requirements:</p> <ul style="list-style-type: none"> <li>• <b>Carpet:</b> NSF/ANSI-140® Standard (most recent version) OR Certified by the Cradle to Cradle Innovation Institute at the Silver achievement level or higher.</li> <li>• <b>Adhesives:</b> must be: <ul style="list-style-type: none"> <li>○ Green Seal, UL EcoLogo , Scientific Certifications Systems (SCS) FloorScore, UL GREENGUARD Gold, Carpet and Rug Institute (CRI) Green Label Plus, SQ certified <a href="#">OR</a></li> <li>○ Comply with the VOC limit (50) established in <a href="#">Rule 1168</a> by the South Coast Air Quality Management District (SCAQMD) <i>and</i> may not contain chemicals on the Proposition 65 List <a href="#">OR</a></li> <li>○ Not be listed by the <a href="#">Association of Occupational and Environmental Clinics (AOEC) as an asthmagen</a>.</li> <li>○ It is also desirable to offer “no glue” installations, which would eliminate the VOCs from installation.</li> </ul> </li> <li>• <b>Carpet Cushion:</b> must meet one of the following third party certifications - Carpet and Rug Institute’s Green Label Plus, Scientific Certification System’s FloorScore, UL GREENGUARD Gold, Cradle to Cradle (C2C) Innovation Institute (at the Silver level or higher) and it is desirable to meet the EPA’s <a href="#">Comprehensive Procurement Guidelines</a> for recycled content.</li> <li>• <b>Hard Surface Flooring:</b> Must be certified by one of the following - Cradle to Cradle Innovation Institute at the Silver Level or Higher, Scientific Certification System (SCS) Under Its FloorScore Standard, UL GREENGUARD Gold, Forest Stewardship Council (FSC) and it is desirable to be made from 30% post-consumer recycled content.</li> <li>• <b>Resilient Flooring:</b> must meet a number of <a href="#">American Society of Testing and Materials</a> (ASTM) requirements.</li> </ul>
Foodservice Equipment, Environmentally	Foodservice Supplies and Equipment, Institutional Commercial Grade Large and Small	<a href="#">GRO40</a>	This contract includes large and small commercial grade foodservice equipment registered with the EPA’s <a href="#">Energy Star</a> and <a href="#">WaterSense</a> programs. This includes dishwashers, refrigerators and freezers, fryers, ice makers, griddles, ovens, holding cabinets, and steam cookers that use less energy and water.

## Preferable

### Furniture, Environmentally Preferable and Remanufactured

Office, School, Library, Furniture,  
Accessories & Services

[OFF52](#)

This contract requires vendors to disclose whether their products have a Health Product Declaration (HPD) and an Environmental Product Declaration (EPD). These declarations assist buyers in identifying environmental, climate and health information about the products. This contract includes a category (no. 9) for refurbished or reused furniture. Buyers are encouraged to consider refurbished and reused furniture to the maximum extent possible without jeopardizing the performance or intended end use of the product. Refurbished or remanufactured furniture under this contract is required to be restored to original performance standards and functions.

Vendors are required to disclose whether their products or product lines have the following third-party certifications, meet specific standards, or possess other environmental or climate-related attributes, which may be found in the OFF52 Master Discount Sheet located in the [OFF52 Master Contract Record](#). These include:

- Cradle to Cradle Certified or have a Material Health Certificate, silver or higher
- Declare Living Building Challenge (LBC) Red List Free
- GreenScreen Certified
- BIFMA LEVEL
- Listed in the Center for Environmental Health (CEH) Database for Healthier Furniture
- SCS Indoor Advantage Gold certified (low-emitting)
- Intertek Clean Air Gold certified (low-emitting)
- MAS Certified Green certified (low-emitting)
- UL GREENGUARD GOLD
- Forest Stewardship Council (FSC) (For wood and bamboo products)
- Meets California's furniture flammability standards (per Technical Bulletin 117-2013) and is free of added flame retardants (verified by product tag/label)
- Free of per- and polyfluoroalkyl substances (PFAS)
- Does not have a Prop 65 warning
- Free vinyl or PVC
- Free from Antimicrobials

Purchasing entities are also encouraged to discuss greener purchasing options with vendors – which includes products with less or no chemicals of concern, fabrics free of fluorinated stain treatments, antimicrobials, PFC and or flame retardants, and recycled content. More information about environmentally and climate preferable furniture may be found on the OSD's [EPP Environmentally Preferable Furniture](#) webpage.

**Flame Retardant Fire Codes in Massachusetts:** Flame retardant chemicals are semi-volatile organic compounds that migrate out of the products and into the air and reside in existing dust. Many flame-retardant chemicals have been found to be persistent, bioaccumulative, and/or toxic, and there is growing concern about the impact of these chemicals in our environment. Non-chemical flame retardants, such as appropriate smolder-proof fabric, should be used whenever doing so is compliant with fire safety requirements. Over the last few years, the Massachusetts Fire Code and the City of Boston's Fire Prevention Code have been amended to allow for certain spaces to choose flame retardant free furniture and meet the codes. See the [Guidance for Environmental Preferable Furniture: Review of Chemicals of Concern and Certifications & Standards](#) for a full explanation of the codes, in addition to information on health and environmental effects and alternatives for those seeking to minimize flame retardants in furniture.

Heating Oil, B5 Bio-heat	No.2 Heating Fuel and APS Eligible Liquid Biofuel	<a href="#">ENE52</a>	B5 Bioheat® is traditional home heating oil (No.2 Heating Oil) blended with 5% biofuel. Biofuel is a fuel composed of or produced from biological raw materials — vegetable oils, animal fats, or used cooking oils — as opposed to fossil fuel. Bioheat® may be used in home heating oil equipment in exactly the same manner as standard heating oil with no equipment modifications needed. Bioheat® is regulated by BQ-9000, which is a voluntary quality control program for vendors and manufacturers that requires all batches to be tested for compliance with ASTM D6751 and includes storage, sampling, testing, blending, shipping, distribution, and fuel management best practices. Bioheat® is available in Zones 1, 2, and 3 for will-call only with a minimum 500-gallon delivery.
Hospital Supplies: Remanufactured, Reconditioned, Refurbished	Medical Commodities	<a href="#">HSP44</a>	<p>This contract offers a broad range of hospital equipment and supplies from numerous vendors, but only those that cost \$5,000 or less. Remanufactured and/or used equipment is offered upon request and otherwise on an “as available” basis only. Depending on equipment and manufacturers, these items often carry a different warranty than if purchased new. Product pricing - Cost savings on remanufactured and used equipment may range from 10-50% depending on equipment and vendor. Equipment that may be available as remanufactured and/or used includes:</p> <ul style="list-style-type: none"> <li>• Lifts and Transfer Devices</li> <li>• Bathing Systems, Rehab</li> <li>• Alarm Systems/Accessories</li> <li>• Stretchers, Wheelchairs</li> <li>• Bed: Medical/Surgery/Specialty Equipment</li> <li>• Durable Medical Equipment</li> <li>• Specialty Equipment, Furnishings</li> <li>• Overweight Patient Equipment</li> </ul> <p><b>Value added services</b> include battery exchange/recycling and mercury reduction programs.</p> <p>To find more sustainable healthcare products, ask for products that have <a href="#">Green Health Approved</a> certification and/or meet the standards established by <a href="#">HealthCare Without Harm’s Safer Medical Products</a>. Both non-profit organizations work to make identification of sustainable products easier for healthcare product purchasers.</p>
Heating, Ventilation and Cooling (HVAC) Products	Maintenance Repair and Operations Industrial and Building Retail Products  Facilities Maintenance, Repair & Operations (MRO) Industrial Supplies  Building Maintenance, Repair and Operations (MRO)	<a href="#">FAC119</a>   <a href="#">FAC123</a>  <a href="#">FAC124</a>	Executive Order 594 sets goals and requirements that will accelerate the decarbonization of fuels used to heat and cool state facilities, help to demonstrate new technologies and strategies necessary to meet the Commonwealth’s energy goals, and quicken the shift to electric heating. This Order directs state agencies to substantially reduce or eliminate emissions from onsite fossil fuels, namely for heating. It is the intent of the Commonwealth to prioritize equipment and products that will help state agencies achieve this goal. These three contracts contain a variety of environmentally preferable HVAC and refrigeration products. Specifications are listed in the <a href="#">Building Materials and Supplies</a> descriptions.
Laboratory Supplies and Equipment,	Laboratory Supplies and Equipment	<a href="#">HSP45</a>	To find more sustainable laboratory supplies and equipment, ask for products that have <a href="#">Green Health Approved</a> certification and/or meet the standards established by <a href="#">HealthCare Without Harm’s Safer Medical Products</a> . Both non-profit organizations work to make identification of sustainable products easier for healthcare product purchasers.

## Environmentally Preferable

### Landscaping Products, Environmentally Preferable

Landscaping Products, Parks and Recreation Equipment and Related Products, Supplies and Services

[FAC122](#)

This contract offers a number of native plants, organic products, and products containing post-consumer recycled materials. Recycled content requirements mirror those required by the Federal Government and may be viewed at [www.sftool.gov](http://www.sftool.gov).

Cat #	Category Name	EPP Product/Services Available
1	Live Plants, Seeds and Other Nursery Products	Drought tolerant plants, plants that facilitate xeriscape landscaping and pollinator habitats, and plants native to MA.
2	Turf and Ornamental Landscape Products	<ul style="list-style-type: none"> <li>• <b>Organic pesticides:</b> includes pesticides that are certified by the Organic Materials Research Institute (OMRI), as well as mechanical pest management products, such as bait or traps. A list of OMRI-certified products can be found at <a href="http://www.omri.org/us-list">www.omri.org/us-list</a>.</li> <li>• <b>Irrigation and water management equipment</b> including spray sprinkling bodies and irrigation controllers must be <a href="#">EPA WaterSense</a> certified. All other irrigation and water management supplies should, as best as possible, adhere to EPA WaterSense <a href="#">Guidance</a>. It is preferable to request drip irrigation and xeriscape supplies.</li> <li>• <b>Landscaping lighting:</b> Lamps, luminaires and retrofit kits must use LEDs as their only light source and have at least one of the following lighting certifications: DesignLights Consortium (Standard, Premium or LUNA), ENERGY STAR, or International Dark Sky Association. LED drivers and lighting controllers (e.g., occupancy sensors) must be RoHS compliant AND UL or ETL listed.</li> <li>• <b>Garden hoses:</b> It is preferable to request garden hoses free of vinyl (PVC).</li> </ul>
3	Soil, Compost, Mulch, and Biochar	Compost is a soil amendment that assists with soil structure, water retention, and erosion control. Mulch is used to retain moisture in the soil, suppress weeds, keep the soil cool and organic mulches also help improve the soil's fertility, as they decompose. Biochar is a stable form of charcoal produced from organic material through pyrolysis, used primarily as a soil amendment to enhance soil health and sequester carbon, thereby mitigating climate change. Its porous structure improves water and nutrient retention in soil while also reducing greenhouse gas emissions. Compost under this contract is required to meet mandatory specifications and be tested to meet the specifications as outlined in the <a href="#">Request for Responses</a> .
4	Soil Aggregate Products	Reused and recycled soil aggregate products, including processed glass aggregate.
5	Fertilizer, Including Organic	Organic fertilizer must be certified by the USDA Organic standards or by other nationally recognized certifying bodies (e.g., Organic Materials Review Institute or National Organic Program).
6	Playground Equipment	Playground equipment must meet the <a href="#">Federal Comprehensive Procurement Guidelines (CPG)</a> for recycled content for playground equipment. Made from plastic playground equipment must contain at least 90% post-consumer recycled content (PCRC); plastic composite equipment must contain at least 50% PCRC; aluminum equipment must contain 25% PCRC; and steel 16 or 67, depending on the manufacturing process.

7	Playground and Athletic Surfaces	Outdoor	<p>There are growing concerns with environmental and health issues with Artificial Turf, including chemicals in infills and artificial grass fibers, migration of synthetic particles into the environment, and lack of disposal options for artificial turf. It is recommended that buyers request alternative options to conventional artificial turf.</p> <p>Products that are designed for use on playgrounds and athletic surfaces must meet federal guidelines. This includes the USDA BioPreferred Program and minimum recycled content under the Comprehensive Procurement Guidelines (CPG). Bidder must be able to demonstrate that each offered product meets minimum content levels upon request:</p> <ul style="list-style-type: none"> <li>• Playgrounds and Athletic Fields: Biobased content of 22%. Examples include materials that are applied to the surfaces of playgrounds, athletic fields, and other sports surfaces to enhance or change the color or general appearance of the surface and to provide safety and/or performance benefits. Such materials include, but are not limited to, top coatings, primers, line marking paints, and rubberized pellets that are used on athletic courts, tracks, natural or artificial turf, and other playing surfaces. This category does not include the artificial turf or surface itself, as that is included in the carpets product category.</li> <li>• Carpets must meet the minimum biobased content of 7%. This includes floor coverings composed of woven, tufted, or knitted fiber and a backing system.</li> <li>• Plastic or rubber 90-100% Postconsumer content.</li> </ul>
8	Site Furnishing/Amenities		<p>Products that are designed for use on playgrounds and athletic surfaces must meet federal guidelines. This includes the USDA BioPreferred Program and minimum recycled content under the Comprehensive Procurement Guidelines (CPG):</p> <ul style="list-style-type: none"> <li>• <a href="#">Park benches and picnic tables</a></li> <li>• <a href="#">Bike racks</a></li> <li>• <a href="#">Plastic fences</a></li> <li>• <a href="#">Signage</a></li> </ul> <p>Benches and picnic tables to contain at least: plastic 90% PCRC, plastic composite 50% PCRC, aluminum 25% PCRC, concrete 15% PCRC; Bike racks made from HDPE to contain 100% PCRC, and steel at least 25% PCRC</p>
9	Sports and Equipment	Fitness	Running tracks must contain at least 90% PCRC. When applicable, the Commonwealth prefers products that contain recycled, reused, thermally modified wood, refurbished products and/or other environmentally preferable products.
10	Outdoor Structures	Shelters/Shade	It is recommended that buyers request products that meet third-party environmental and sustainability specifications and standards. Additional desirable attributes may include: recycled content, thermally modified wood and/or reused, refurbished products.

	11	Splash Pads and Waterplay			It is recommended that buyers request products that meet third-party environmental and sustainability specifications and standards. Additional desirable attributes may include: recycled content, thermally modified wood and/or reused, refurbished products.
	13	Fencing, Railing, Decking, Partitions and Lockers			Plastic fencing to contain at least 60% PCRC; plastic shower partitions to contain at least 20% PCRC; steel shower partitions 16 or 67 depending on the manufacturing process; plastic lumber landscaping timbers and posts: HDPE to contain at least 25% PCRC, mixed plastics/sawdust 50%, HDPE/fiberglass 75, and other mixed resins 50%.
	14	Related Products	Specialty	EPP	<p>Products in this category must demonstrate, among other things, documented environmental benefits, such as support of native habitat, reduced energy or water use, lower embodied carbon and/or use of toxic materials, and increased use of recycled materials. Examples of products that may be offered in this category include but are not limited to:</p> <ul style="list-style-type: none"> <li>• Recycled rubber pavers (minimum of 50% post-consumer recycled rubber).</li> <li>• Environmentally preferable surface coatings (e.g., do not contain solvents, exceeds recycled content requirements, reduces or eliminates use of biocides or exhibits other waste reduction characteristics).</li> <li>• Erosion control bales made with recycled materials.</li> <li>• Athletic Paint – if bidder is providing athletic paint, it is desirable that they provide less toxic athletic marking paint certified by EPA Safer Choice.</li> <li>• Green Roof and Living Wall Materials and Supplies – modular green roof systems, growing media, materials for drainage and moisture protection courses, root barriers, membranes, accessories, and related materials for vegetated roofs and walls (only products that do not require manufacturer-certified installation may be sold).</li> </ul>

## Lawns and Ground Equipment

Lawns & Ground Equipment, Parts and Services

[FAC116](#)

This contract includes energy-efficient equipment and those that use alternative fuels (e.g. compressed natural gas, battery electric) which offer an opportunity for reduced fuel usage, reduced or zero-emissions, reduced maintenance chemicals all contributing to reduced environmental and health impacts. Category 3: Utility Vehicles, Golf Carts, and Related Accessories include electric carts and Category 8: Commercial Grade Battery Electric Lawn Equipment includes mowers, blowers and other handheld equipment.

For more information about battery electric equipment, visit the [EPP Commercial Battery Powered Landscape Equipment Webpage](#) and check the [FAC116 Master Blanket Purchase Order](#) for the Commercial Grade Battery Powered Landscape Equipment Specifications (in the attachments section).

*Some of the benefits of using battery electric equipment includes:*

### **Environmental benefits:**

- *Helping the Commonwealth meet its environmental goals in climate change, clean air, and toxics use reduction.*
- *Reduction in carbon emissions, toxic exposure, air pollution, hazardous waste and spills.*
- *Reduction in noise pollution and nuisance complaints.*
- *Reduction in wildlife and habitat exposure to toxic emissions, excessive noise, and ground-sourced particulates.*
- *Does not contribute to smog.*

			<p><b>Health benefits:</b></p> <ul style="list-style-type: none"> <li>Reduction in worker exposures to toxic emissions, excessive noise, excessive vibrations, and ground sourced particulates.</li> <li>Reduction in public exposure to toxic emissions, excessive noise, and ground-sourced particulates.</li> </ul> <p><b>Cost benefits:</b></p> <ul style="list-style-type: none"> <li>Avoided fuel costs.</li> <li>Lower maintenance costs and reduction in maintenance chemicals.</li> <li>The possibility for extended work hour options and holiday operation due to lower noise levels.</li> </ul>
Motor Oil, Re-Refined and Other Bio-based Lubricants	Automotive Parts, Paint, Refined Motor Oil, Lubricants, and Other Fluids	<a href="#">VEH114</a>	<p>This contract includes re-refined motor oil, bio-based marine/specialty oils, hydraulic oil, gear oil, and brake fluids in addition to remanufactured antifreeze. Choose bio-based, remanufactured and considered biodegradable and derived from non-petroleum sources.</p> <p><b>Specifications</b></p> <ul style="list-style-type: none"> <li>Re-refined motor oils are certified by the American Petroleum Institute (API) and Society of Automotive Engineers (SAE) and meet International Lubricant Standardization and Approval Committee (ILSAC) requirements.</li> <li>Warranties must provide for the full-cost replacement of all equipment that is damaged as direct result of oil that does not meet the required performance specifications when used appropriately.</li> <li>Other oils and lubricants, including bio-based items, are certified to meet the appropriate American Society for Testing and Materials (ASTM) standards and manufacturers' specifications and are available in various quantities.</li> <li>Vendors are required to take back empty drums at no additional charge.</li> <li>Vendors offer a variety of sizes, including 300-gallon storage tank for motor oil products.</li> </ul> <p>According to the <a href="#">US Environmental Protection Agency</a>, re-refined oils are recycled, and, therefore, helps reduce the depletion of natural resources by using less crude oil; it only takes one gallon of used oil to make 2.5 quarts of re-refined oil; whereas it takes 42 gallons of crude oil to make 2.5 quarts of virgin oil.</p>
Office Supplies	Office Supplies, Recycled Paper and Envelopes	<a href="#">OFF53</a>	<p>This contract provides office supplies containing hundreds of items made with recycled content and other environmentally preferable attributes. The contract includes the following mandatory specifications:</p> <ul style="list-style-type: none"> <li>30% post-consumer recycled content for all copy paper, some other papers, and most envelopes.</li> <li>Recycled copy paper must function properly in all copiers, fax machines, laser printers, ink jet printers, offset presses and high-speed production devices.</li> <li>Additional recycled content requirements for various other office supply products including boxes, calendars, file folders, index cards, mailing tubes, binders, clip boards, picture frames, trash and recycling containers (see requirements located in <a href="#">Appendix I: Product Specifications</a> of the Request for Responses).</li> <li>In addition, most copy papers are certified by the Forest Stewardship Council for sustainable forest management.</li> </ul>
Organic Foods, Dairy, and Baked Goods	Prime Grocers Dairy Products and Baked Goods	<a href="#">GRO38</a> <a href="#">GRO41</a>	<p>The Commonwealth of Massachusetts General Laws allows OSD to provide preference for locally sourced products and a 10% variance on price (<a href="#">Section 23b: Preference for products grown in or produced from products grown in commonwealth</a>). All grocery contracts provide various selections of certified organic and locally sourced groceries/food, dairy, and bakery healthy choice products. Bakery healthy choice bread products, according to MA Nutritional Health Standards, must be whole grain (WG), Trans fat free (TFF), sodium reduced (LS) (215 mg sodium/slice or serving) and meet the added sugar (&lt; 35% sugar).</p>
Plastic Lumber,	Maintenance Repair and Operations		<p>Plastic or plastic composite lumber and supplies are available on two of the MRO contracts, and the FAC122 contract. Up-front cost may be higher than wood, however, product benefits make it the material of choice for exterior applications where weather resistance and low maintenance costs are required. FAC122 has specific furnishings required to use post-consumer</p>

Recycled	(MRO) Retail Products and Supplies		recycled content such as playground equipment, site furnishings, outdoor shelter and shade structures, in addition to fencing, railing, decking and partitions and may be found in the <a href="#">Landscape Products</a> description.
	Landscaping Products, Parks and Recreation Equipment and Related Products, Supplies and Services	<a href="#">FAC119</a>	<b>Benefits of Plastic Lumber:</b> <ul style="list-style-type: none"> <li>• Non-porous - will not splinter, peel, rot, crack, split, or degrade</li> <li>• Impervious to wood-destroying organisms</li> <li>• Virtually maintenance free</li> <li>• Long lasting (50 years+, depending on the application)</li> <li>• Waterproof</li> <li>• Graffiti- and stain-resistant and easy to clean</li> <li>• Resistant to cold, salt, and most corrosive substances</li> <li>• Available in many colors and requires no painting or sealing</li> <li>• Durable: lasting 15-20 years in underwater applications and more than 50 years in construction applications</li> <li>• Free of hazardous chemicals and cannot leak or contaminate soil</li> </ul>
	Facilities Maintenance, Repair and Operations (MRO) Industrial Supplies	<a href="#">FAC123</a>	
Plumbing, Heating, and HVAC Supplies	Maintenance, Repair and Operations (MRO) Retail Products and Supplies	<a href="#">FAC119</a>	These contracts contain many plumbing, heating, and HVAC supplies that meet the <a href="#">EPA's WaterSense</a> certification, including toilets, urinals (with waterless options), faucets, showerheads, water bottle refill stations, and landscape irrigation products. In addition, vendors have been asked to provide an alternative to PVC (Polyvinyl Chloride) piping, including but not limited to those containing low-emitting PVC and CPVC compounds. Specifications are listed above in the <a href="#">Building Materials and Supplies Description</a> for FAC119, FAC123 and FAC124.
	Facilities Maintenance, Repair and Operations (MRO) Industrial Supplies	<a href="#">FAC123</a>	
	Building Maintenance, Repair and Operations (MRO)	<a href="#">FAC124</a>	
Printed Promotional Products, Environmentally Preferable	Print, Copy & Mail Services and Printed Promotional Products	<a href="#">OFF48</a>	<p>This contract includes a list of vendors who provide printing, copying and printed promotional items. Copy shops and commercial printers are required to use copy paper with a minimum of 30% post-consumer recycled content, and many other papers require at least 10%. They also offer paper with 50% and 100% post-consumer recycled content. The recycled logo and/or the words "printed on recycled paper" are required to be included on all printed materials with recycled content. Printing facilities on the contract are also required to meet the MassDEP's <a href="#">Environmental Results Program</a> regulations, which is a cross-program compliance certification. For printed promotional items, ask for products that have any of the following characteristics:</p> <ul style="list-style-type: none"> <li>• Made with recycled content – preferably post-consumer recycled content</li> <li>• Recyclable</li> <li>• Organic/Biobased</li> <li>• Reusable</li> <li>• Compostable</li> <li>• Biodegradable</li> <li>• USA made</li> <li>• Made in a manufacturing plant that uses renewable energy</li> </ul>
	Recycling Containers, Compost Bins and Rain Barrels	<a href="#">FAC113</a>	<p>This contract includes a wide variety of containers for various recycling applications including recycling bins, wheeled carts, home composting bins and buckets, public space recycling containers including solar bins, and rain barrels.</p> <ul style="list-style-type: none"> <li>• All products are required to contain reused or recycled content. Rain barrels are 98% reused, and most of the plastic recycling bins, containers, and carts are manufactured with approximately 30% post-consumer recycled plastic.</li> </ul>

			<ul style="list-style-type: none"> <li>Local vendors available on the contract.</li> <li>The solar powered trash and recycling compactors handle the equivalent of two or more containers of debris, saving time and labor for staff.</li> </ul>
Telematics/GPS Tracking	Telematics	<a href="#">VEH116</a>	Telematics enables data-driven decision making to optimize the utilization and efficiency of fleet vehicles. Telematics increases safety, efficiency, reduces fleet costs by promoting safer driving and proactive maintenance, and aids in reducing carbon emissions and fuel consumption through decreased idling and trip routing.
Tire Retreading and Recycling	Tires, Tubes and Services	<a href="#">VEH120</a>	Vendors on VEH120 provide an optional tire retreading service. A retread tire undergoes the process of replacing the old, worn tread and bonding a new one onto the tire casing, thereby extending the tire lifespan. Tire retreading conserves raw resources, as only the tread needs to be replaced, not the entire tire. It also helps reduce the number of tires that end up in land fills, as the tire lifespan is extended.
	Solid Waste and Recycling	<a href="#">FAC86</a>	Vendors on the VEH109 contract, who remove and replace tires, provide recycling of the old tires. Use the <a href="#">FAC86</a> contract for bulk recycling of tires. Make sure to confirm with the vendor on this contract that tires are recycled and not burned in a waste to energy plant.
Toner Cartridges, Remanufactured	Imaging Devices, Supplies, and Services	<a href="#">ITC80</a>	<p>Remanufactured toner cartridges represent significant (30-60%) cost savings over competing Original Equipment Manufacturer (OEM) products, reuse empty plastic casings, reduce the amount of waste going to disposal, and reduce the need for manufacturing new plastics. Buyers are strongly encouraged to purchase high yield remanufactured toner cartridges. The following list prioritizes toner cartridges in order of their cost-effectiveness, quality, and environmental preferability:</p> <p>Priority 1 - Remanufactured High-yield Cartridges  Priority 2 - High-yield OEM Cartridges  Priority 3 - Remanufactured Standard Cartridges  Priority 4: OEM Standard Cartridges (only if the above are NOT available)</p> <ul style="list-style-type: none"> <li>Vendors will take back all used cartridges for recycling at no additional cost.</li> <li>Remanufactured supplies available under this contract comply with stringent remanufacturing processes and product quality specifications.</li> <li>All remanufactured printer toner cartridges are guaranteed to meet OEM standards and certified to meet all test methods developed and used by the printer cartridge industry.</li> <li>Vendors also are responsible for making any necessary repairs and/or replacements for any printers or parts damaged by a faulty cartridge.</li> </ul> <p><b>For Executive Agencies</b>  The ITD/OSD Enterprise Printer Cartridge Acquisition Policy was enacted on October 27, 2012 and requires all Executive Branch Agencies (and encourages others) to purchase only remanufactured laser printer toner cartridges where they are available for existing equipment models. Details of the policy may be found on the EPP <a href="#">Remanufactured Toner Cartridge resource page</a>, along with other resources and departmental case studies on remanufactured toner cartridge use.</p>
Trash Bags, Plastic, Imprinted, Recycled	Solid Waste and Recycling Services	<a href="#">FAC86</a>	This contract provides plastic trash bags with customized printing options. All bags are made of 100% low-density polyethylene LDPE, contain a minimum of 20% post-consumer recycled content, and are available in a range of colors. Commonwealth cities and towns that operate user-fee (Pay-As-You-Throw) programs may purchase from this contract.
Ultra-Low Sulfur	Ultra-Low Sulfur Diesel and Biodiesel	<a href="#">ENE53</a>	Ultra-Low Sulfur Diesel (ULSD) describes an EPA standard for the sulfur content in on-road diesel fuel sold in the U.S. The allowable sulfur content for ULSD (15 ppm) is much lower than the previous U.S. standard for Low Sulfur Diesel (LSD, 500

Diesel			ppm), which further reduces emissions of sulfur compounds (blamed for acid rain). ULSD also may be used with emission control retrofit devices that greatly reduce emissions of oxides of nitrogen and particulates that may contribute to asthma and other respiratory illnesses.																																				
Vehicle Parts, Remanufactured Motorized Parts	Automotive Parts, Paint, Refined Motor Oil, Lubricants, and Other Fluids	<a href="#">VEH114</a>	<p>This contract establishes a list of vendors to provide motorized vehicle parts, accessories, and supplies. Many of these supplies are remanufactured. Ask the vendor about remanufactured parts when ordering.</p> <p>The following is a list of motorized vehicle parts that are most likely to be remanufactured or have a remanufactured option:</p> <table><tr><td>Air brake compressor</td><td>Clutches</td><td>Fuel pumps</td></tr><tr><td>Air conditioning compressors</td><td>Constant velocity drive axles</td><td>Generators</td></tr><tr><td>Air dryers</td><td>Crankshafts</td><td>Headlamp motors</td></tr><tr><td>Alternators</td><td>Cruise control products</td><td>Intake manifolds</td></tr><tr><td>Antifreeze (recycled)</td><td>Cylinder heads</td><td>Mass air flow sensors (MAF)</td></tr><tr><td>Anti-lock brake systems (abs)</td><td>Distributors</td><td>Master cylinders</td></tr><tr><td>Batteries</td><td>Engine control computers (ECCs)</td><td>Motor oil (re-refined)</td></tr><tr><td>Blower motors</td><td>Engine control modules (ECMs)</td><td>Power steering gear boxes</td></tr><tr><td>Brake boosters</td><td>Engines</td><td>Power steering pumps</td></tr><tr><td>Brake calipers</td><td>Flywheels</td><td>Rack and pinion units</td></tr><tr><td>Brake valves</td><td>Fuel injector pumps</td><td>Rear axle</td></tr><tr><td>Carburetors</td><td>Fuel injectors</td><td>Smog pumps</td></tr></table>	Air brake compressor	Clutches	Fuel pumps	Air conditioning compressors	Constant velocity drive axles	Generators	Air dryers	Crankshafts	Headlamp motors	Alternators	Cruise control products	Intake manifolds	Antifreeze (recycled)	Cylinder heads	Mass air flow sensors (MAF)	Anti-lock brake systems (abs)	Distributors	Master cylinders	Batteries	Engine control computers (ECCs)	Motor oil (re-refined)	Blower motors	Engine control modules (ECMs)	Power steering gear boxes	Brake boosters	Engines	Power steering pumps	Brake calipers	Flywheels	Rack and pinion units	Brake valves	Fuel injector pumps	Rear axle	Carburetors	Fuel injectors	Smog pumps
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Vehicles, Alternative Fuel	Light and Medium Duty Vehicles  Heavy-Duty Vehicles, Road Maintenance and Construction Equipment	<a href="#">VEH110</a>  <a href="#">VEH111</a>	<p><b>For VEH110:</b> This contract allows departments and political subdivisions to purchase fuel-efficient hybrid, battery-hybrid, electric, and bi-fuel vehicles for inclusion in their fleets. All vehicles in Categories 1, 2, and 3 must be hybrid electric (HEV), plug-in hybrid (PHEV), battery electric (BEV), or fuel cell electric (FCEV).</p> <p><b>For VEH111:</b> This contract has some all-electric vehicles and upfits available, including buses and truck chassis. There are also vehicles and equipment with some alternative fuel options including propane, CNG, and biodiesel.</p> <p>Executive Agencies in the Commonwealth must follow EO594: Decarbonizing and Minimizing Environmental Impacts of State Government – and any associated fuel guidelines.</p> <p>A review of possible grants, technical assistance, financial incentives (including state and federal) and/or Green Community incentives should be considered in the decision making for new vehicles or equipment. In addition, refer to <a href="#">VEH102</a>: Advanced Vehicle Technology Equipment, Supplies and Services for electric vehicle supply equipment (charging stations), idle reduction technologies, and after-market conversion technologies.</p>																																				
Water: Bottled, Emergency Bottled, Water Filtration Services, Reverse Osmosis Systems	Drinking Water - General and Emergency Services	<a href="#">GRO39</a>	<p>This contract covers drinking water needs. Categories include bottled water, bottle-less water systems, and emergency bottled water (potable and non-potable). All bottles are BPA-free, and either reused or easily recyclable in a facility or municipal recycling program.</p> <p><b>Bottle-less Systems</b></p> <p>Switching to a bottle-less cooler system may save from 30-70% in monthly water costs as compared to bottled water delivery for one month through our rental program. Systems also may be purchased with a maintenance agreement. Eliminating messy and cumbersome water bottles also saves time lost to refilling or changing bottles, especially in larger offices.</p>																																				

Water Treatment  
Technologies,  
Alternative

Water Treatment Chemicals and  
Alternative Treatment Systems

[FAC121](#)

Constantly changing water bottles exposes the water coolers to bacteria and germs, making traditional water coolers a rather unsanitary option. The bottle-less systems are closed, eliminating constant exposure to the environment and people's hands on the bottle neck with each bottle change. Chances of employee injuries while trying to lift a heavy water bottle are eliminated with a bottle-less system. Vendors offer various types of coolers, and the price varies with the cooler type.

- **Water Filtration Services** - supply single water cooler dispensers from National Sanitation Foundation (NSF)-certified filtration systems and may be installed into the building's existing potable water supply and, if required, sanitary drainage system by Massachusetts-licensed plumbers.
- **Reverse Osmosis (RO) with Related Services and Supplies** - water purification technology that uses a semipermeable membrane to remove larger particles from drinking water. RO water systems supply multiple watercooler dispensers from single central head units. A head unit contains the reverse osmosis membranes and performs the Reverse Osmosis filtration. (Water waste from these systems is three gallons per gallon of water provided).

This contract offers alternative water treatment technologies, systems, and related services and includes chemical-free systems for cooling towers, saltwater generation technology and ionization system for swimming pools, as well as outdoor water fountain treatment systems that may reduce the use of chlorine by up to 70%. See Category 3: Alternative Treatment Systems for buying options.

**Pool Alternative Technologies**

Over-chlorination is common in public swimming pools because of the high levels of phosphates, which reduce chlorine effectiveness. Phosphates occur naturally in some water but are commonly added by water treatment plants to prevent corrosion in municipal water pipes. Adding a food-grade enzyme to the water reduces the phosphate level and allows chlorine to do its work. Not only is less chlorine needed, but it also lasts longer. The following technologies help reduce chlorine use:

- **Pool Ionization**, already in use in some commercial/public swimming pools in Massachusetts, is an environmentally preferable alternative to the traditionally heavy use of chlorine and other chemicals. Ionization as it relates to swimming pools is the process of using a low-voltage current to disperse positively charged copper and silver ions into the water. Since bacteria are negatively charged, the silver and copper ions penetrate the cell walls and help destroy microorganisms. Ionization systems result in a reduction of up to 80% in the use of chlorine.
- **Pool Ozonation** breaks down chloramines and mineral and sediment buildup while assuring the elimination of 100% of all bacteria, viruses, algae, and fungi. Ozone is made by passing oxygen through a corona discharge (an electrical discharge that indicates ionization of oxygen and the formation of ozone in the surrounding air). Ozonation technology significantly reduces chlorine use.
- **Saltwater Chlorination** is a technology that replaces the use of the hazardous and costly sodium hypochlorite (also known as chlorine bleach) with sodium chloride (also known as salt). Using salt to produce chlorine for pools is safer and cheaper. Saltwater chlorination systems are already at work in Massachusetts.

SERVICES	Title	Contract Number	Services Description
Antifreeze Recycling	Hazardous/Universal, Medical, Electronic Waste Disposal and Emergency Response	<a href="#">FAC110</a>	Some vendors in Categories 1-2 of this contract offer recycling of spent antifreeze, either through a municipally offered household hazardous waste event, or as an individual pick-up. Information may be found in the cost table for the contract located in the <a href="#">FAC110</a> COMMBUYS MBPO.
Battery Recycling	Hazardous/Universal, Medical, Electronic Waste Disposal and Emergency Response Office Supplies, Recycled Paper and Envelopes	<a href="#">FAC110</a> <a href="#">OFF53</a>	Vendors on this contract offer recycling of batteries including, but not limited to mercury oxide, silver oxide, button cell, sealed lead acid, lithium of all types and compositions, such as lithium ion, magnesium, nickel cadmium, nickel metal hydride, and alkaline either through a municipally offered household hazardous waste event, or as an individual pick-up. Information may be found in the cost table for the contract located in the <a href="#">FAC110</a> COMMBUYS MBPO.  The office supplies vendors on <a href="#">OFF53</a> : Office Supplies, Recycled Paper and Envelopes are required to provide free recycling services for rechargeable batteries.
Computer/Electronics Recycling	Hazardous/Universal, Medical, Electronic Waste Disposal and Emergency Response	<a href="#">FAC110</a>	Electronic recycling vendors are included in Category 8: Electronic Waste of this contract. All vendors are required to hold either the <a href="#">R2</a> and/or <a href="#">E-Stewards</a> certification for responsible handling of hazardous e-waste. All vendors are capable of collecting and recycling a variety of electronic waste, including, but not limited to, televisions, computer monitors, laptops, central processing units (CPUs), computer peripherals, and cell phones and some may be offered at no charge. Information about vendors and pricing may be found in the cost table for the contract located in the <a href="#">FAC110</a> : Hazardous Waste COMMBUYS MBPO.
Demand Response Services	Electricity Demand Response and Forward Capacity Market Services	<a href="#">ENES1</a>	This contract provides enrollment and management services for facilities to maximize participation and earnings in the ISO New England (ISO-NE) Demand Response Program, by using back-up emergency generators and/or load curtailment. In addition, the vendor provides support services for current and future assets enrolled and to be enrolled by the Commonwealth in the Forward Capacity Market.
Document Scanning and Destruction (Recycling) Services	Records Management, Storage and Archiving Services and Moving Services	<a href="#">FAC126</a>	Vendors who provide document destruction services on this contract are certified by the <a href="#">National Association of Information Destruction (NIAD)</a> and must provide a certificate of destruction to the purchasing eligible entity for all shredded or destroyed materials. In addition, vendors are required to recycle all recyclable materials resulting from media destruction and provide proof weight of the materials destroyed.
Energy, Climate Action, and Facility Advisory Services	Energy, Climate Action, and Facility Advisory Services	<a href="#">PRF74</a>	This contract provides a wide-ranging list of independent, experienced, and pre-qualified vendors offering an array of advisory services under three categories. Vendors under this contract may be businesses, individuals, or sole proprietors. Categories include: <ul style="list-style-type: none"> <li>• Energy and Climate Action Research, Analysis, Advisory and Consulting Services</li> <li>• Energy and Climate Action Project Advisory and Consulting Services</li> <li>• Clean Energy Systems and Technology Analysis and Research Category</li> <li>• Energy and Climate Action Facilities Management, Operations, and Maintenance Advisory and Consulting Services</li> </ul>
Environmental Consultant, Program	Management Consultants, Program Coordinators and Planners Services	<a href="#">PRF76</a>	These contracts include vendors that specialize in environmental consulting, program coordination and planning services for environmentally related projects.

Coordinator, and Planner Services	Professional Environmental and Consulting Services	<a href="#">PRF77</a>	
Environmental Engineers, Diagnostics and Testing	Professional Environmental and Consulting Services	<a href="#">PRF77</a>	<p>Vendors on this contract provide expert environmental consulting, engineering, and investigative services on all matters involving environmental and subsurface issues. Environmental consulting and engineering firms on this contract provide consultation on federal and state environmental laws and regulations, environmental assessment and remediation activities, and other environmental analyses for Commonwealth Agencies and Municipalities. Categories include:</p> <ul style="list-style-type: none"> <li>A. Media Assessments</li> <li>B. Design and Construction Administration Services</li> <li>C. Massachusetts Contingency Plan (MCP) Compliance Support</li> <li>D. Permitting</li> <li>E. Compliance</li> <li>F. Environmental Strategy</li> <li>G. Recycling, Solid Waste, and Sustainable Materials Management</li> </ul>
Facilities Engineering Services	Facilities Engineering Services	<a href="#">PRF69</a>	This contract includes a wide range of independent, experienced and qualified contractors to provide facilities engineering services, including energy systems engineering and water resources engineering.
Fire Extinguisher Recycling	Hazardous/Universal, Medical, Electronic Waste Disposal and Emergency Response	<a href="#">FAC110</a>	Some of the vendors in Categories 1, 2 and 9 offer recycling of fire extinguishers, either through a municipally offered household hazardous waste event, or as an individual pick-up. Information may be found in the cost table for the contract located in the <a href="#">FAC110: Hazardous, Medical, Hard-To-Manage Waste Collection MBPO</a> in COMMBUYS.
Fuel Card and Fuel Management Services	Fuel Card & Fuel Management Services	<a href="#">VEH117</a>	This contract provides Fuel Cards to users of fleet vehicles. Users have the ability to review and download billing online, and vendors offer an app that assists drivers in finding the lowest priced gas in the area, including alternative fuel locations. Vendors also allow for the linkage of electric fueling transactions with select electric vehicle charging station providers with plans to expand to more.
Hazardous Waste Recycling	Hazardous/Universal, Medical, Electronic Waste Disposal and Emergency Response	<a href="#">FAC110</a>	<p>This contract covers collection, management, recycling (if applicable), and disposal of a number of hazardous and medical wastes. The consolidated price list reflects recycling of materials and costs (if any). Depending on the markets, many of these materials have the potential to generate a revenue stream for recyclers, which may equate to rebates and other cost savings for contract users. Vendors have been awarded in specific categories and are only permitted to provide services in those categories for which they have received an award. Contract users should obtain quotes from more than one vendor in an effort to obtain the best pricing.</p> <p>Mercury is a highly toxic material, which if released, may damage the human nervous system; it also may lead to toxic buildup in fish and other wildlife. Proper management of fluorescent lamps, which contain mercury, is an integral part of the Commonwealth's efforts to continue improving the condition of our environment. Cathode Ray Tubes, which are found in TVs and computer monitors and are banned from disposal sites in Massachusetts, are also being collected and recycled under this contract.</p> <p>All materials, including mercury from lamps, are processed and recycled for re-use, except for certain hazardous materials which are incinerated at a licensed facility. The vendor will provide a certificate of recycling or destruction of the materials collected, whichever is appropriate. All pricing includes the cost of packaging and transportation.</p> <p><b>Additional benefits of the contract include:</b></p>

- Free item collection (or for a fee paid to the contract user) for select items in categories 1, 3 & 8 (for example, motor oil, batteries, electronics). Please check the price list for items that indicate “no charge” or a fee amount paid to the contract user
- Milk-run (multi-site) discounts for combined pickups offered by select vendors in categories 1, 3 & 8
- Low-load discounts (for small purchasing entities) offered in Categories 1, 3 & 8
- Most vendors offer free end user training, including basic education to users on processes and procedures for appropriate storage, handling, or packaging of hazardous materials
- Some vendors also offer Resource Management services. Unlike traditional solid waste service contracts, Resource Management (RM) compensates waste vendors based on performance in achieving waste reduction goals rather than the volume of waste disposed. As a result, RM aligns waste vendor incentives with facility goals to explore innovative approaches that foster cost-effective resource efficiency through prevention, recycling, and recovery.
- No surcharges, no pre-payments are allowed, and all prices are “ceiling” or “not-to-exceed,” therefore, users may negotiate further, if desired.

#### Category Descriptions

Category	Description
Category 1	<b>Hazardous Material Collection and Disposal:</b> Includes a variety of materials such as motor oil and filters, batteries, paint, fuels, solvents, propane tanks, mercury, and other High Hazard Waste Management, can be collected and recycled via this category. Containers and labor, including High Hazardous Waste Staff are available.
Category 2	<b>Hazardous Waste Collection Events: Offers pre-load and per-item options.</b> Includes all set up, materials, and handling necessary to conduct such events at Municipalities and other sites throughout the Commonwealth. Prices include labor, travel time, containers, packaging material, labels, placards, paperwork, safety and control equipment as well as other necessary costs.
Category 3	<b>Universal Waste, Mercury Waste &amp; Batteries:</b> Collection and disposal waste as defined in 40 CFR Part 259. This includes collect/processing and recycling of intact fluorescent lamps, high intensity discharge (HID), and other lamps (including neon, mercury vapor, high-pressure sodium, and metal halide lamps), elemental mercury, mercury-contaminated items, mercury-containing devices (including thermometers, barometers, thermostats, electrical switches, relays, medical and scientific instruments), non-leaking waste PCB and DEHP ballasts, and a variety of batteries (including non-mercury batteries). Select vendors also offer the removal of barometers from schools and mercury.
Category 4	<b>Sharps (4a Sharps Pickup &amp; Kiosks, 4b Sharps Mail-in):</b> Collection programs for non-commercially generated sharp, including pick-up service, mail-in service, or kiosk service. Noncommercial generated sharps are defined as discarded medical articles that may cause puncture or cuts (including needles, syringes and lancets) and that are generated by Massachusetts residents in their homes.
Category 5	<b>Onsite Medical Waste Treatment Systems:</b> There are no vendors awarded in this category at this time.
Category 6	<b>Medical/Infectious Waste Collection and Disposal:</b> Vendors provide a full-service program, at no added charge including all packaging supplies and labels, transportation, proper disposal and manifesting of an Eligible Entity's infectious waste in compliance with all appropriate regulations.
Category 7	<b>Pharmaceutical Waste:</b> Pharmaceutical segregation, formulary review/characterization/analysis, and satellite container collection within a facility, and collection services.
Category 8	<b>Electronic Waste:</b> Vendors in this category are either R2 and/or e-Stewards certified for responsible handling of hazardous e-waste, and capable of collecting/recycling a variety of electronic waste, including televisions, computer monitors, laptops, central processing units (CPUs), computer peripherals, cell phones, and other electronics.

	Category 9	<p><b>Tanks:</b> This category allows vendors to pick up and dispose/recycle above and underground storage tank, in addition to other tanks such as fire extinguishers.</p>
	Category 10	<p><b>Emergency Response:</b> Vendors offer Emergency Response (ER) services that facilitate the containment and removal and disposal of sudden releases of oil and hazardous materials (OHM); and to facilitate preliminary response actions and risk reduction measures by the removal and disposal of reportable concentrations of OHM in soil, on public property, for the purposes of protecting public health, safety, welfare and the environment. It is not the intent of this contract to provide a remediation service. It is intended for situations that require immediate emergency actions of limited scope and duration in order to protect public health and the environment.</p>
<p>Integrated Pest Management (IPM)</p>	<p>Integrated Pest Management</p> <p><a href="#">FAC117</a></p>	<p>This contract provides a list of vendors experienced in Integrated Pest Management (IPM). IPM is an effective and environmentally sensitive approach to pest management that relies on a combination of common-sense practices and use current, comprehensive information on the life cycles of pests and their interaction with the environment. This information, in combination with available pest control methods, is used to manage pest damage by the most economical means, and with the least possible hazard to people, property, and the environment. The IPM approach may be applied to both agricultural and non-agricultural settings, such as homes, gardens, and workplaces. IPM takes advantage of all appropriate pest management options including, but not limited to, the judicious use of pesticides. In contrast, organic food production applies many of the same concepts as IPM but limits the use of pesticides to those that are produced from natural sources, as opposed to synthetic chemicals.</p> <p>The Commonwealth of Massachusetts is one of many states that have strived to suppress conventional pesticides and the health and environmental dangers associated with them. Commonwealth laws provide the Massachusetts Department of Agricultural Resources (MDAR) with oversight on pesticide use in addition to enacting regulations for schools to implement Integrated Pest Management Programs. The Massachusetts Pesticide Control Act of 1978 is found in <a href="#">Chapter 333</a> of the Code of Massachusetts Regulations (333 CMR) and includes the following:</p> <ul style="list-style-type: none"> <li>• <b>The Children Protection Act of 2000</b> - The purpose of 333 CMR 14.00 is to promote the implementation of Integrated Pest Management (IPM) techniques and to establish those standards, requirements, and procedures necessary to minimize the risk of unreasonable adverse effects on human health and the environment regarding the use of pesticides within a school, daycare center or school-age childcare program facility in Massachusetts. This Act makes it mandatory for parents, staff, and children of any school or daycare facility to receive notification whenever pesticide applications are being made on the property and was put into place to ensure the health and safety of children, who are more sensitive to pesticides than adults.</li> <li>• <a href="#">Governor's Executive Order #403 (2003)</a> - Mandates the use of IPM in all state buildings and facilities.</li> </ul>
<p>Integrated Pest Management for Turf and Landscaping</p>	<p>Landscaping Services, Snow Removal, Tree Services and Related Services</p> <p><a href="#">FAC120</a></p>	<p>Turf and Landscape Integrated Pest Management is a strategy used to manage insect pests in the landscape by using economically and environmentally sustainable practices. The goal of IPM is not to eliminate insect pests, but rather to strengthen and stabilize the landscape (ecosystem) so that conditions are more favorable for plants than they are for pests. By using scouting and monitoring practices to observe pests, timely actions may be taken to prevent significant problems using an environmentally preferable and cost-effective combination of cultural or mechanical, biological and, when justified, chemical methods available.</p> <p>Vendors under this contract provide pest control programs for landscaping elements, including but not limited to lawns, trees, shrubs, plants and flowers, including but not limited pest management planning, surveillance, trapping, and pesticide application. Services may also include plant disease management programs and limited/incidental management of abiotic problems. The Commonwealth of Massachusetts seeks programs that prioritize the reduction of pesticide use, by using non-toxic control measures /methods or the least toxic control products, as much as possible, to control pests.</p>

Janitorial Services, Environmentally Preferable	Janitorial Services - Environmentally Preferable	<a href="#">FAC114</a>	<p>The vendor is also required to provide site-specific recommendations for design and management changes necessary to achieve pest prevention. The Contractor must also provide education services related to integrated pest management for building staff and occupants.</p> <p>This is a multi-award contract for Janitorial Services with regional and statewide awards. It includes vendors of all sizes and meets and exceeds janitorial industry standards. Vendors on this contract are also required to incorporate green cleaning practices into their services.</p> <p>The contract requires the use of environmentally preferable cleaning products and janitorial paper products that meet the specifications under <a href="#">FAC118: Environmentally Preferable Cleaning Products, Programs, Equipment and Supplies</a>. This includes:</p> <ul style="list-style-type: none"> <li>• Third-party certified cleaning products, janitorial papers, and personal care products.</li> <li>• Safer sanitizers and disinfectants.</li> <li>• Trash liners and entryway mats with recycled content, and compostable liners having either certifications from the <a href="#">Biodegradable Products Institute (BPI)</a> or the <a href="#">Compost Manufacturers Alliance (CMI)</a>.</li> <li>• Carpet and Rug Institute (CRI) rated equipment (CRI tests and measures the effectiveness of cleaning products and equipment and provide ratings) .</li> </ul>
Landscaping Services: Irrigation, Tree Trimming, Catch Basin Cleaning, & Snow Removal	Landscaping Services, Snow Removal, Tree Care and Related Services	<a href="#">FAC120</a>	<p>This contract contains lists of vendors that are capable of performing various commercial, industrial, institutional, and/or residential maintenance and services during times when you do not have the available resources to do so. Vendors provide services such as installation, maintenance, repair and irrigation systems, tree trimming, catch basin cleaning, snow removal and sanding services. Service categories with environmentally preferable services include:</p> <ol style="list-style-type: none"> <li>1. <b>Landscaping and Grounds Keeping</b> –statement of work must request IPM landscaping methods (see #5). In addition, request use of compost and organic fertilizers, native and drought tolerant plants, integration of xeriscape and permaculture practices, compost all yard waste and use zero-emission battery electric landscaping equipment.</li> <li>2. <b>Snow Removal</b> – request deicing and snowmelt products that are certified by the <a href="#">EPA's Safer Choice</a> program.</li> <li>3. <b>Tree Services</b> – certain regions have a requirement that vendors be <a href="#">certified by Massachusetts Department of Agricultural Resources to identify Asian long-horned beetles</a>. Request that non-contaminated trimmings be separated and composted.</li> <li>4. <b>Invasive and Exotic Plant Control</b> – ask vendor for a plan to consider effectively targeting and removing non-native plant species without the use of pesticides/herbicides if at all possible and use zero-emission battery electric landscape equipment or at the least equipment powered with a four-stroke engine.</li> <li>5. <b>Outdoor Integrated Pest Management (IPM)</b>: a strategy used to manage insect pests in the landscape by using economically and environmentally sustainable practices. The goal of IPM is not to eliminate insect pests, but rather to strengthen and stabilize the landscape (ecosystem) so that conditions are more favorable for plants than they are for pests. A well designed IPM program should be based on prevention, monitoring, and control which offer the opportunity to eliminate or drastically reduce the use of pesticides, and to minimize, to the greatest extent possible, the toxicity of and exposure to any products which are used.</li> <li>6. <b>Irrigation Systems Service, and Repair</b> – request drip irrigation or efficient irrigation equipment certified by <a href="#">EPA's WaterSense</a> Program.</li> </ol>
Mattress Recycling	Carpet and Mattress Recycling	<a href="#">FAC90</a>	<p>This contract includes transportation and recycling (and some reuse) of mattresses and box springs (not futons). The three vendors disassemble mattresses and recycle not less than 75% (by weight) of the mattress components through scrap dealers and other appropriate secondary markets, including but not limited to, metal, foam, fabric, and wood. All vendors must be in compliance with Massachusetts mattress <a href="#">waste disposal bans</a> (310 CMR 19.017) effective November 1, 2022. Note: there are no carpet recycling vendors at this time.</p>

Managed Print Services	Managed Print Services	<a href="#">ITE001</a>	Under Managed Print Services, a service provider takes primary responsibility for meeting the office printing needs, including the equipment, supplies, services, and the overall management of the equipment fleet. They work to optimize print practices and behaviors (such as promoting paperless processes) in order to reduce the amount of paper and toner used.
Moving and Storage Services	Moving and Storage Services	<a href="#">FAC127</a>	Buyers may find and choose moving materials with post-consumer recycled content (PCRC) used to perform moving services in each vendors price files. In addition, vendors on this contract may provide recycling of any waste materials and surplus property that is part of a move.
Oil Waste Recycling	Hazardous/Universal, Medical, Electronic Waste Disposal and Emergency Response	<a href="#">FAC110</a>	<p>Categories 1-2 of this contract offer waste oil recycling services for a fee. Some of the many reasons to reuse and recycle used oil include (according to the <a href="#">US EPA's The Benefits of Reusing and Recycling Used Oil</a> webpage):</p> <ul style="list-style-type: none"> <li>• Recycling used oil keeps it from polluting soil and water.</li> <li>• Motor oil does not wear out—it just gets dirty—so recycling saves a valuable resource.</li> <li>• Less energy is required to produce a gallon of re-refined base stock than a base stock from crude oil.</li> <li>• One gallon of used motor oil provides the same 2.5 quarts of lubricating oil as 42 gallons of crude oil.</li> </ul>
Print, Copy & Mail Services	Print, Copy & Mail Services and Printed Promotional Products	<a href="#">OFF48</a>	<p>On this contract, all printing and copying vendors are required to:</p> <ul style="list-style-type: none"> <li>• Use a minimum of 30% post-consumer recycled content paper for uncoated stock and a minimum of 10% for coated stock.</li> <li>• Provide options for higher recycled content paper choices</li> <li>• Specify the use of recycled content on all printed materials</li> <li>• Have a recycling program in place with regular pick-ups</li> <li>• Printers are required to be registered with <a href="#">MassDEP's Compliance Certification Program</a> or, if out of state, comply with environmental specifications</li> <li>• Printers are encouraged to recycle solvent and ink, use water-based plate developers and adhesives and cleaners, and eliminate the use of chlorinated solvents</li> <li>• Mailing services vendors must use Energy Star registered equipment</li> </ul>
Propane Tank Recycling	Hazardous/Universal, Medical, Electronic Waste Disposal and Emergency Response	<a href="#">FAC110</a>	This contract offers propane tank and gas recycling services in categories 1, 2 and 9.
Renewable/Alternative Energy Credit Contract	Renewable and Alternative Energy Portfolio Standards and Services	<a href="#">ENES7</a>	Under the Massachusetts Renewable Energy Portfolio Standard (RPS) and Alternative Portfolio Standard (APS) regulations, all retail electricity suppliers must provide a minimum percentage of kilowatt-hours (kWh) sales to end-use customers in Massachusetts from eligible renewable and alternative energy generating sources. Contract users generating energy by such sources and receiving revenue through Renewable Energy Certificates (RECs) or Alternative Energy Certificates (AECs) may use vendors on this contract to provide equipment, devices, data collection, testing and any additional products and/or services necessary to qualify Customer Assets for RPS and/or APS. The vendor compiles and submits all necessary documentation required to create and certify all marketable environmental certificates and maintains all ongoing certifications as required.
Scrap Metal, Sale and Disposal	Solid Waste and Recycling Services	<a href="#">FAC86</a>	This contract provides reimbursement for scrap metals that may be recycled. The contract is awarded to vendors located throughout the State who offer sale and removal of surplus scrap metals. The metals are sorted by type and consist of aluminum, mixed metals, steel, cast iron, copper, light iron, and brass.

Scrap Tire Removal / Disposal Services	Solid Waste and Recycling Services	<a href="#">FAC86</a>	<p>This contract allows for recycling/removal of scrap tires and tire shreds:</p> <ul style="list-style-type: none"><li>• Pick-up from a Commonwealth location - vendor will remove, pack, make ready for shipment, and incur all freight costs with the transport of all tires (with or without rims) and tire shreds from each holding location (a minimum of one ton of material is preferred to request this service).</li><li>• Delivery to Vendor’s Facility - The agency or municipality is responsible for the preparation of the weight slip and bill of lading so that the tires may be accepted by the vendor. A department should contact the vendor prior to delivering scrap tires to the vendor’s recycling facility.</li></ul>																				
Solar PV Installation and Inspection Services	Solar PV Inspection Services	<a href="#">TRD01</a>	Solar PV installation may be offered by vendors on TRD01, especially in the electrical category. Solar Inspection Services of publicly owned solar arrays is also included in this contract. There are two levels of inspection available: a comprehensive inspection, usually taking place at five-year intervals, which evaluates the arrays at the string level, and a yearly inspection, primarily based on performance at expected levels based on the array parameters.																				
Solid Waste and Recycling Services	Solid Waste and Recycling Services	<a href="#">FAC86</a>	<p>This contract consists of a list of vendors who offer waste collection and/or recycling services ranging from the handling of a single material to providing a broad array of waste management services. It does not cover hazardous materials or universal wastes such as fluorescent lamps – see FAC110. An important aspect of this contract is the ability to obtain improved and cost-effective recycling services from one or more approved vendors. The contract offers 21 categories of products <b>and also includes Pay-As-You-Throw Bags supplies (Category 1a) and event recycling services.</b> Departments are responsible for soliciting waste and recycling proposals/pricing from the vendor list and negotiating pricing based on the type and scope of services being requested. Some vendors also provide resource management services to assist agencies and others in consolidating their waste management programs to save money on disposal costs wherever possible.</p> <p>The following materials are available for recycling service:</p> <table><tr><td>Category 2: Bulky Waste, incl. Mattresses</td><td>Category 12: Textiles</td></tr><tr><td>Category 3: White Office Paper</td><td>Category 13: Street Sweepings</td></tr><tr><td>Category 4: Mixed Paper</td><td>Category 14: White Goods</td></tr><tr><td>Category 5: Paper Shredding/ Secure Document &amp; Media Destruction</td><td>Category 15: Construction &amp; Demo (C&amp;D), including Cl Gypsum Wallboard</td></tr><tr><td>Category 6: Old Corrugated Cardboard</td><td>Category 16: Asphalt, Brick, Concrete (ABC)</td></tr><tr><td>Category 7: Metal Cans &amp; Containers</td><td>Category 17: Wood</td></tr><tr><td>Category 8: Glass Containers</td><td>Category 18: Tires</td></tr><tr><td>Category 9: Plastic Bottles &amp; Containers</td><td>Category 19: Mattresses</td></tr><tr><td>Category 10: Organic--Leaves, Yard Waste, &amp; Floating Vegetation</td><td>Category 20: Redeemable Bottles &amp; Cans</td></tr><tr><td>Category 11: Organic--Food Waste</td><td>Category 21: Scrap Metal</td></tr></table>	Category 2: Bulky Waste, incl. Mattresses	Category 12: Textiles	Category 3: White Office Paper	Category 13: Street Sweepings	Category 4: Mixed Paper	Category 14: White Goods	Category 5: Paper Shredding/ Secure Document & Media Destruction	Category 15: Construction & Demo (C&D), including Cl Gypsum Wallboard	Category 6: Old Corrugated Cardboard	Category 16: Asphalt, Brick, Concrete (ABC)	Category 7: Metal Cans & Containers	Category 17: Wood	Category 8: Glass Containers	Category 18: Tires	Category 9: Plastic Bottles & Containers	Category 19: Mattresses	Category 10: Organic--Leaves, Yard Waste, & Floating Vegetation	Category 20: Redeemable Bottles & Cans	Category 11: Organic--Food Waste	Category 21: Scrap Metal
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Universal Waste, Mercury and Battery Recycling	Hazardous/Universal, Medical, Electronic Waste Disposal and Emergency Response	<a href="#">FAC110</a>	This contract offers collection and disposal of medical/infectious/regulated wastes, including medical waste as defined in the Federal Hazardous Waste Regulations ( <a href="#">40 CFR Part 259.30</a> ). This includes collection/processing and recycling of intact fluorescent lamps, high intensity discharge (HID), and other lamps (including neon, mercury vapor, high-pressure sodium, and metal halide lamps), elemental mercury, mercury-contaminated items, mercury-containing devices (including thermometers, barometers, thermostats, electrical switches, relays, medical and scientific instruments), non-leaking waste																				

			PCB and DEHP ballasts, and a variety of batteries (including non-mercury batteries). In addition, select vendors offer the removal of barometers from schools.
Fleet Management Services	Vehicle Maintenance and Management, Crash Management and Subrogation, and Risk Management	<a href="#">VEH113</a>	<p>This contract provides vehicle maintenance management and crash and subrogation services any vehicles or equipment regardless of Gross Vehicle Weight Rating (GVWR). This includes preventative maintenance services, tune-ups, exhaust, engine repairs, and state inspections. Preventative maintenance and tune-ups extend the life of the vehicle, saving money, and helping to keep the air clean (from <a href="#">www.FuelEconomy.gov</a> - <a href="#">Keeping your vehicle in shape</a>).</p> <ul style="list-style-type: none"> <li>• <b>Keep engine properly tuned</b> - Fixing a car that is noticeably out of tune or has failed an emissions test may improve its gas mileage by an average of 4%, though results vary based on the kind of repair and how well it is done. Fixing a serious maintenance problem, such as a faulty oxygen sensor, may improve mileage by up to 40%.</li> <li>• <b>Keep tires properly inflated</b> – Improve gas mileage by .6% on average – up to 3%, by keeping tires inflated to the proper pressure. Under-inflated tires may lower gas mileage by about .2% for every 1psi drop in the average pressure of all tires. Properly inflated tires are safer and last longer.</li> <li>• <b>Use recommended grade of motor oil</b> – Improve gas mileage by 1-2% by using manufacturer’s recommended grade of motor oil. Look for engine oil that says “Energy Conserving” on the API performance symbol to be sure it contains friction reducing additives.</li> </ul>
Vehicles, Short-term Rental	Short-Term Rental of Various Light Duty Vehicles	<a href="#">VEH112</a>	This contract awarded Enterprise Rent-A-Car to provide the rental of light-duty and basic transportation for a variety of different classes of vehicles, including hybrids. In addition to hybrids, these locations offer vehicles with higher MPG ratings (meaning more efficient), and other vehicles capable of running on ethanol fuel. State employees using this contract are expected to reserve the most economical vehicle size available at the time of making the reservation
Windshield and Glass Recycling for Vehicles	Fleet Management Services	<a href="#">VEH113</a>	This contract includes replacement service and parts for cracked or broken windshields. The vendor recycles 100% of all windshields that are replaced.