

EPP Procurement Program Annual Report FY2021

Including Reporting from the Toxics Reduction Task Force

Executive Summary

<u>Executive Order 515 (EO515)</u>¹ was signed in 2009 and formally established the Commonwealth of Massachusetts' Environmental Purchasing Policy. The policy is administered by the Operational Services Division's (OSD) Environmentally Preferable Products (EPP) Procurement Program. This report summarizes the achievements and documents progress with EO515 goals for Fiscal Year 2021 (FY21) and includes:

- 1. Estimates of available data on EPP purchases and their associated environmental, health, and fiscal benefits.
- 2. An overview of the FY21 Statewide Contracts (SWCs) with established environmentally preferable products, including a review of environmental standards set and whether environmental third-party certifications were used.
- 3. An update on new and innovative EPPs, technologies, and services.
- 4. How OSD encourages state contractors to incorporate EPPs and sustainable practices in their operations.
- 5. An update on how OSD supports the development of appropriate training and outreach on procuring EPPs and identification of their fiscal, environmental, and health benefits.

This report also includes a progress update on the <u>Toxics Reduction Task Force (TRTF)</u>.² The TRTF was established to help facilitate implementation of EO515, and primarily assists in identifying ways to reduce toxic substances in products or services on SWCs.

The OSD's EPP Program estimates the following key environmental and cost benefits for FY21, and discussion of these calculations may be found in <u>Appendix A</u> and <u>Appendix B</u>:

	FY21
Estimated EPP spending from Statewide Contracts	\$433M
Estimated annual savings, primarily from energy efficient purchasing choices	\$2.2M
Reduction in lifetime metric tons of carbon dioxide equivalent (MTCO2e) ³ , primarily from purchasing energy efficient products, those containing post-consumer recycled content, or materials diverted from disposal	319,116
Estimated tons of waste diverted from disposal to recycling	13,049

EPPs are included in 57⁴ of OSD's SWCs, comprising thousands of environmentally preferable products/services. EPPs are an integral part of the contracts and help the Commonwealth save millions of dollars per year and reduce the negative impacts on human health and the environment.

In FY21, the Baker-Polito Administration announced two new actions for the Commonwealth to achieve its commitment to Net Zero emissions in 2050 and reduce greenhouse gas (GHG) emissions which include An Act Creating a Next-Generation Roadmap for Massachusetts Climate Policy (the Act) and Executive Order 594 (EO594), Leading by Example: Decarbonizing and Minimizing Environmental Impacts of State Government. In combination, these two actions – the Act and EO594 – encompass broad and ambitious initiatives to address climate change through decarbonization, emissions reductions, and the adoption of clean energy strategies.

¹ https://www.mass.gov/files/documents/2016/08/vb/executive-order-515.pdf

^{2 &}lt;u>https://www.mass.gov/service-details/toxic-reduction-task-force</u>

³ MTCO2e is a measure used to compare the emissions from different greenhouse gases based upon their global warming potential (GWP).

⁴ There are more than 125 OSD SWCs.

The Act will continue to advance the Commonwealth's nation-leading energy efficiency programs by establishing new energy efficiency requirements for multiple products available on Statewide Contracts.⁵ And EO594 reinforces Massachusetts as a leader in emissions reduction efforts through a variety of strategies in government operations. To reduce emissions and increase energy resilience, the Executive Order underscores the need for significant energy efficiency measures across the state portfolio, as well as the deployment of renewable energy and energy storage at multiple state-owned and managed buildings, facilities, campuses, and fleet facilities. OSD, as a member of the Leading by Example Council, has been working closely with DOER to review policies, update contract language to reflect the new actions, and identify opportunities for OSD to work toward decarbonizing the Statewide Contracts.

Additional FY21 Accomplishments:

- » Provided information to buyers and vendors about safer cleaning and disinfecting as the pandemic progressed.
- » Signed onto the Northeast Recycling Council/Association of Plastic Recyclers Government Recycling Demand Champion Program as a State Recycling Organization Advocate and committed to help publicize the program and promote purchasing of products with post-consumer resin.
- » Funded and published the Environmental Claim Verification: Findings and Recommendations to the Massachusetts Operational Services Division report which covers strategies, best practices, and tools for verifying environmental attributes of products.
- » Recognized by the Global Electronics Council for OSD's sixth EPEAT Purchaser Award for the agency's commitment to requiring EPEAT registered computers, monitors, servers, and imaging equipment in our SWCs.

Looking Ahead: FY22 Initiatives:

- » Continue to work closely with the Executive Office of Energy and Environmental Affairs (EOEEA) to identify what OSD may do to support the Act and EO594 and explore opportunities to decarbonize Statewide Contracts.
- » Continue to work on automating consolidation of EPP metrics for spend, environmental, and cost benefits reporting in addition to working with sourcing staff to refine data requirements for vendor environmental reporting.
- » Continue outreach about available EPPs to buyers and vendors through OSD's *Buy the Way* magazine, guides, fact sheets, social media, webinars, and presentations.
- » Support statewide programs to promote other environmental initiatives and foster partnerships with local and national organizations to pool resources and market successes.
- » Review various chemicals in products on SWCs and offer research and procurement advice on environmentally preferable alternatives.

⁵ This includes, but is not limited to, commercial kitchen equipment, plumbing, lighting, computers and computer monitors, electric vehicle supply equipment, and consumer appliances including faucets, residential ventilating fans, portable electric spas, showerheads, toilets, and water coolers.



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OSD EPP Program Overview

The Environmentally Preferable Products (EPP) Procurement Program is administered by OSD with the support of the Executive Office of Energy and Environmental Affairs (EOEEA) and the Massachusetts Department of Environmental Protection (MassDEP) to find ways to leverage the Commonwealth's purchasing power to provide cost-effective, sustainable purchasing choices that reduce our impact on public health and the environment. This Program includes fostering markets for products with recycled content and promoting the purchase of goods and services that conserve energy, water, and other resources while reducing waste and the use of toxic substances. OSD provides management and oversight on more than 125 Statewide Contracts (SWCs) for goods and services used by eligible entities. Purchases on these contracts reached more than \$2.03 billion in FY21. OSD has supported the OSD EPP Program for 25 years, making it one of the longest standing state EPP programs in the country.

In 2009, <u>Executive Order 515</u> was issued to help the Commonwealth's Executive Departments further reduce their environmental footprints by focusing on purchasing environmentally preferable products, with particular emphasis on those with toxic substances. OSD administers EO515 and provides overall program management which includes, but is not limited to, establishing environmental procurement policies and goals.⁶ OSD's EPP Program promotes and tracks the purchase and use of EPPs in SWCs and assists Strategic Sourcing Managers (SSMs) by ensuring that the EO515 requirements are met.

Through collaboration with the Department of Public Health (DPH); EOEEA's Office of Technical Assistance and Technology (OTA); and the Division of Energy Resources (DOER), which includes the Leading by Example (LBE), the Green Communities, and the Clean Cities Programs, OSD develops several recommendations for consideration by the Strategic Sourcing unit as we create solicitations for products that are in demand by purchasing customers. In addition, we work with other States and national organizations to identify EPP opportunities in SWCs.

OSD collaborates with several other entities (see <u>Appendix C</u>) to identify and market more sustainable products and services and to find ways to integrate more EPPs into our contracts. We encourage emerging technologies that represent new opportunities for resource conservation and long-term cost savings.

Additional details about OSD's EPP Program may be found on the EPP website at <u>www.mass.gov/epp</u>.



6 OSD's EPP Program Policies and Goals Webpage, https://www.mass.gov/service-details/epp-program-policies

Key Accomplishments in FY21: E0515 Goals

OSD reports on annual progress with goals outlined in Executive Order 515:

GOAL: Estimate available data on actual EPP purchases and their associated environmental, health, and fiscal benefits.

Quantifying cost savings helps build the business case for incorporating EPPs into SWCs. OSD uses data from its <u>Vendor</u> <u>Report Management System (VRM)</u>⁷ to collect sales and environmental data from vendors about products and services. This reporting system allows OSD to identify EPPs in sales data and then calculate the contract spend on EPPs and various cost savings associated with using EPPs as compared to conventional products/services. The VRM also provides data that allows OSD to calculate some environmental and health benefits associated with EPP products/services.

In FY21, OSD documented the following:

- » **EPP Purchases:** OSD documented \$432,646,235 in annual environmentally preferable purchases made by state agencies and other public entities eligible to use Massachusetts' SWCs through vendor reported sales reports. (See <u>Appendix D</u> for more information)
- » **Cost Savings:** OSD documented nearly \$2,236,420 in annual savings from purchasing energy and other efficient products in FY21, with lifetime savings of more than \$14M. Additional information is found in <u>Appendix A</u>:

SAVINGS FROM	RESOURCES SAVED	FY 2021 \$ Savings	Lifetime Cost Savings (includes FY21 savings)
Energy Efficient Lighting (LEDs)	Energy and maintenance labor	\$433,942	\$5,207,304 ⁸
EPEAT ⁹ Registered Equipment	Energy and packaging	\$1,767,478	\$8,130,398
Remanufactured Toner Cartridges	Plastic, Ink		\$469,655
Fuel Efficient Vehicles (executive fleet only)	Fuel	\$35,000	\$280,000
TOTAL ESTIMATED SAVINGS		\$2,236,420	\$14,087,357

- » Environmental and Health Benefits: OSD encourages procurement staff to consider environmental and health impacts of a product or service throughout its lifecycle as part of OSD's best value procurement strategy.¹⁰ Quantifying indirect health and environmental benefits helps validate the benefits of choosing sustainable products, but it is difficult and time-consuming to determine. For this report, several tools were used to determine environmental benefits calculations to help measure greenhouse gas (GHG) emissions reductions expressed as metric tons of carbon dioxide equivalent (MTCO2e) from either the use of products containing recycled content, energy and water efficient products, or materials diverted from disposal to recycling facilities. A summary of the results is presented below, and more in-depth analysis may be found in <u>Appendix B</u>.
- 7 <u>https://massosd.gob2g.com/</u>

⁸ Assumes a 12-year LED lifetime. Energy Star rated bulbs assume that light output remains consistent for 12 years: <u>https://www.energystar.gov/products/lighting_fans/light_fixtures/why_choose_energy_star_qualified_led_lighting</u>

⁹ EPEAT stands for the Global Electronic Council's Electronic Equipment Environmental Assessment Tool, www.EPEAT.net

¹⁰ Some considerations include raw materials used, the manufacturing process, product packaging and distribution methods, as well as ultimate disposal.

Summary of Reductions in MTCO2e	FY21 Lifetime Savings
Energy Efficient Lighting (LEDs)	23,007
EPEAT Registered Equipment	54,667
Diverting materials from disposal to recycling/composting	15,475
Purchasing products with recycled content	225
Purchasing Electric and Other Fuel-Efficient Vehicles for Executive Agency Fleet	976
Lifetime Reduction in MTCO2e	319,116

This is equivalent to the following¹¹:



¹¹ Using the US EPAs Greenhouse Gas Equivalency Calculator: <u>https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator</u>

Data Automation and Verification: Communicating EPP success with purchasing metrics is an ongoing challenge within the purchasing and sustainability community, and often it is incomplete as the task may be time consuming to accomplish. To fulfill the EO515 requirement to report annual EPP progress, OSD continues to explore automating the calculation and interpretation of EPP program results to make it easier to report back and monitor progress in real time. The following progress has been made to this end:

- » Vendor Report Management System: As reported in previous annual reports, the VRM system was a game changer for the OSD EPP Program to access better and more consistent real-time data. The Statewide Contract Manager works with the OSD EPP Program at the start of any new contract to set its environmental data fields, which vary by contract depending on the product or service, which, ultimately, are connected to the metrics consolidated for this report. Due to the volume of data and the fact that contracts change every year, the OSD EPP Program has worked on a process of continual reporting improvement by providing ongoing feedback to the Contract Managers on issues, suggesting field changes, or changing how vendors are reporting to get better and quicker data for EPP metrics. Vendors require additional training on how to provide product sales information that is easily verified to comply with the contract's EPP specifications, so it may be included for the metrics in this report.
- » Environmental Claim Verification: Throughout FY21, the OSD EPP Program worked with the Responsible Purchasing Network (RPN) (see <u>Appendix C</u> for a description of this non-profit) to publish the <u>Environmental Claim Verification</u>: <u>Findings and Recommendations to the Massachusetts Operational Services Division</u>.¹² Many OSD Statewide Contracts require or desire products with ecolabels or third-party certifications, meaning the product has been independently verified to <u>comply with the ecolabels' environmental standard</u>¹³ and effectively "outsources" the environmental review for procurement staff. Vendors on contracts with product or service ecolabels, either desired or required, are asked to identify them in their sales report, which makes it easier for the EPP Program to count the product or service in the EPP metrics dataset.

While many manufacturers and vendors have made progress labeling EPPs in their catalogs and on their websites, the information sometimes is outdated, confusing, inaccurate, incomplete, or vague. Green products are widely available, and the third-party certification organizations' websites offer online registries of products that have earned their ecolabels. Nevertheless, Contract Managers, purchasers, and vendors often find themselves searching through multiple websites to verify that a product is certified. This effort may cause confusion as the products on the websites sometimes are missing a photo or a unique identifying number (such as a UPC or manufacturer product code).

In FY20, the OSD EPP Program received a grant from the National Association of State Procurement Officials (NASPO),¹⁴ through their Green Technical Assistance Funds Program, to explore recommendations to automate environmental claim verification specifically for green cleaning products. The report tackles this common problem faced by contract mangers, purchasers, and vendors in that the process of verifying the environmental attributes of products is both time-consuming and, at times, unreliable. The report identifies factors that make environmental claim verification challenging and create roadblocks to automating the process. It also highlights the ways in which some manufacturers and vendors have improved the labeling of environmentally preferable products (EPPs) in their offerings and describes how third-party certifiers of EPPs – and, more recently, certification data aggregators – are creating online registries that enable users to quickly and reliably identify products that have earned a strong, multi-attribute ecolabel. Finally, it recommends actions each entity in the supply chain may take to make the process of verifying environmental claims easier and more accurate, faster, and, ultimately, provide greater buyer confidence and more accurate reporting. While the report focused on janitorial supplies, it reveals broader, systemic challenges with verifying the environmental attributes of products that may be applied to other sectors.

^{12 &}lt;u>https://\www.mass.gov/doc/epp-environmental-claim-verification-report-rpn/download</u>

¹³ See the OSD EPP Program webpage <u>Green Certifications, Labels and Performance Measurements</u> for additional information on ecolabels and certifications.

¹⁴ https://www.naspovaluepoint.org/

Specific recommendations for OSD include:

- > Working more closely with bidders to evaluate their abilities to accurately verify product ecolabels in bid documents
- > Working with awarded vendors to accurately report ecolabels in online catalogs and reporting
- > Exploring the use of an environmental certification data aggregator
- > Working with OSD's e-procurement system, COMMBUYS, to have user-friendly EPP labeling, blocking, filtering, and reporting features.

The report also recommends the OSD EPP Program continue dialogue with manufacturers, ecolabels, and vendors to harmonize EPP definitions and ecolabeling practices throughout the supply chain.

» **Data Analytics Tool:** A data analytics tool used by OSD draws data from the VRM system and makes it easier and less time consuming for staff to access and display contract data. The OSD EPP Program was the first OSD unit to develop a dashboard that displays real-time progress with EPP purchasing from OSD Statewide Contracts and we have significantly benefited from the tool to draw data for this annual report. We are exploring a way to code each product or service purchased through OSD's Statewide Contracts so that we may more easily automate compilation of a dataset and access the information from the VRM through the data analytics tool. The OSD EPP Program was invited to present this system of data consolidation and reporting during a breakout session at the <u>Sustainable</u> Purchasing Leadership Council's (SPLC)¹⁵ 2020 Annual Conference titled <u>Using Vendor Report Management Tool for Easier Environmental Data Reporting</u>.¹⁶

GOAL: Provide an overview of the FY21 contracts with established environmentally preferable products, including a review of environmental standards set and whether environmental third-party certifications were used.

EPP Specifications in OSD SWC Updates: During FY21, OSD's EPP Program staff helped OSD Strategic Sourcing Teams (SSSTs) update language or incorporate EPP specifications into 14 Statewide Contracts. In addition, the EPP Program staff is a member of the <u>NASPO ValuePoint (NVP)¹⁷</u> Maintenance, Repair and Operations Sourcing Team as a subject matter expert, which meets to conduct their annual vendor review. The updates are described in <u>Appendix E</u>.

Finding EPPs in SWCs: The <u>EPP Products and Services Guide</u>¹⁸ is OSD's online guide to help buyers locate products with EPPs in SWCs and this Guide is updated as needed with new contract information. The Guide includes an alphabetical listing of EPPs available on SWCs, definitions, the required and desired specifications, and a link to the buying summary for the associated contract (known as the <u>Contract User Guide</u>¹⁹). In addition, OSD maintains the <u>Minimum Environmentally Preferable Products and Services Specifications</u>²⁰ guide that includes mandatory and desirable environmental specifications within the contracts.



- 15 <u>https://www.sustainablepurchasing.org/</u>
- 16 https://vimeo.com/416076874/fd13377d58
- 17 https://www.naspovaluepoint.org/
- 18 https://www.mass.gov/handbook/environmentally-preferable-products-and-services-guide
- 19 https://www.mass.gov/service-details/find-a-statewide-contract-user-guide
- 20 https://www.mass.gov/doc/minimum-environmentally-preferable-products-and-services-specifications-guide/download

Toxics Reduction Task Force Identifies Chemicals of Concern in Products: To facilitate implementation of EO515, the Toxics Reduction Task Force (TRTF) was established in 2009 with oversight and leadership by OSD and EOEEA's Office of Technical Assistance and Technology (OTA). The TRTF includes staff from OSD and OTA, the Department of Public Health (DPH), the Department of Labor Standards (DLS), the Toxics Use Reduction Institute (TURI), and the Department of Environmental Protection (DEP). The TRTF remains a technical advisory group to help the EPP Program identify additional toxics in products on SWCs and explore safer and healthier options. The goals and objectives of the TRTF are to select priority focus areas for reduction in toxic substances in products or services. During FY21, the TRTF continued to facilitate discussions and provide feedback on safer disinfection practices and products. The TRTF also continued its focus on per- and poly-fluoroalkyl substances (PFAS).

» Safer sanitizing and disinfection during the COVID-19 pandemic: For much of FY21, the TRTF consulted on issues related to safer sanitizing and disinfecting products due to concerns with surface and aerosol transmissions of the SARS-CoV-2 virus (the virus that causes COVID-19). For a large portion of FY21, the TRTF spent much time consulting

on surface and aerosol transmissions. In April 2021, the Center for Disease Control lowered its concern about surface transmissions stating that, "(i)t is possible for people to be infected through contact with contaminated surfaces or objects (fomites), but the risk is generally considered to be low." However, demand was high for sanitizers and disinfectants for a major part of FY21, creating a world-wide supply chain issue for the products. OSD decided to broaden the FAC85 Environmentally Preferable Cleaning Products, Program, Equipment, and Supplies Statewide Contract, which specified only "safer" active ingredients²¹ for sanitizers and disinfectants, to include non-EPP product offerings (such as guaternary ammonium compounds and chlorine-based products) to ensure public entities had access to these needed products.



The US Environmental Protection Agency (EPA) developed a list of products that kill the Coronavirus (SARS-CoV-2) known as <u>List N: Disinfectants for Use Against SARS-CoV-2</u>²², and OSD allowed products from this list to be sold on Statewide Contracts. As the supply chains for sanitizers and disinfectants stabilized, the waiver was removed when the Massachusetts State of Emergency was lifted on June 15, 2021, requiring vendors on the FAC85 contract to return to selling products meeting the required specifications, allowing only "safer" active ingredients (e.g., hydrogen peroxide and citrus acid, to name a few).

During FY21, members of the TRTF worked on several fronts to provide guidance to buyers on safer cleaning, verifying safer disinfectants, and navigating application equipment and devices.

Environmentally Preferable Options: OSD's Statewide Contract buyers were encouraged to seek environmentally preferable options whenever possible as these choices were recommended based on public health and environmental considerations by TRTF. Members of the TRTF worked to identify products on List N which contained the safer active ingredients as specified by FAC85, and TURI added them to their website list and continues to update <u>this list</u>.²³

In addition, members of the TRTF worked with OSD on the content for an article titled *Cleaning, Sanitizing, Disinfecting: What's the Difference?* that was featured in the August- September 2020 edition of the OSD magazine *Buy the Way* (see <u>Appendix F</u>) to encourage buyers to find products on List N with the "safer" active ingredients.

²¹ FAC85 requires "safer" allowable active ingredients as determined by the specification requirements in FAC85: Environmentally Preferable Cleaning Products, Programs, Equipment and Supplies. The list of allowable active ingredients may be found in Attachment A: Mandatory Specifications and Desirable Criteria on page 7 in the <u>COMMBUYS MBPO</u> for that contract.

²² https://www.epa.gov/coronavirus/about-list-n-disinfectants-coronavirus-covid-19-0

²³ https://www.turi.org/Our_Work/Cleaning_Laboratory/COVID-19_Safely_Clean_Disinfect/Safer_Disinfecting_Products/List_of_ Safer_Disinfecting_Products

- Product Application Equipment: The TRTF also worked with OSD to navigate issues related to application equipment, as buyers were looking for tools to dispense the disinfectants quickly, especially in large areas. These tools included electrostatic sprayers, foggers, and backpack sprayers, to name a few, all requested by OSD Statewide Contract buyers. The TRTF provided information to OSD to help navigate questions from buyers, which included guidance that under EPA's Antimicrobial Pesticide Registration Program, all pesticides (disinfectants are pesticides) are required to provide the allowable application method on the product label. This means the disinfectant must be approved for use with the application method and for the application equipment itself.
- Devices With Claims to Kill SARS-CoV-2: OSD also received many requests to add devices with claims to kill the virus, such as ultraviolet, aqueous ozone, and some air purifiers. According to the EPA, "devices work by physical means (such as electricity, light, or mechanics) and do not contain a substance or mixture of substances to perform its intended pesticidal purpose." The TRTF directed OSD to the EPA Pesticide Devices: A Guide for Consumers guidance, which states that EPA regulates devices, "in that 'false or misleading claims' cannot be made about the effectiveness or safety of devices. If a manufacturer is making claims about a device, they should have scientific data to support the claims. Regulated devices must also obtain an EPA establishment number." EPA does not routinely review the safety or efficacy of pesticidal devices, and therefore, "cannot confirm whether, or under what circumstances, such products might be effective against SARS-CoV-2, the virus that causes COVID-19."^{24 25} The TRTF recommended that OSD 1) request that the device have an EPA Establishment Number²⁶ located on the device label; 2) that vendors be able to substantiate claims per the EPA Pesticide Device Guidance; and 3) that vendors provide documentation that a device works against SARS-CoV-2 or a Surrogate Virus.
 - Vendor Safer Cleaning and Disinfecting Webinar: The TRTF consulted on and were panelists in a TURI funded webinar with Informed Green Solutions²⁷ titled <u>Use Challenges and Solutions for Cleaning and Disinfecting Equipment, Products, and Services²⁸ that discussed tools and resources for safer cleaning and disinfecting. The webinar introduced strategies for choosing safer products, reviewed federal regulations related to the use of antimicrobials, and discussed issues with selecting and using products in application equipment, among other important topics. The webinar brought in close to 100 participants.</u>
- **Per- and Poly-Fluoroalkyl Substances (PFAS):** The TRTF continued to discuss per- and poly-fluoroalkyl substances, a family of chemicals commonly referred to as <u>PFAS</u>. This class of chemicals has come under increasing scrutiny from toxicologists, ecologists, and regulators given its persistence and connection to potential health effects.²⁹ PFAS may be found in products in Statewide Contracts, including firefighting foam and gear, compostable dishware, cleaning products, personal care products, clothing, furniture, textiles, carpets, rugs, and non-slip additives for industrial applications or other surfactant property processing aids. The TRTF discussed these products and agreed to work with the OSD EPP Program to develop a fact sheet that would be provided to buyers in FY22 listing products available in Statewide Contracts without PFAS. In addition:
 - Adding PFAS to TURA Toxic or Hazardous Substance List: During FY21, the TURA Science Advisory Board recommended adding Certain PFAS Not Otherwise Listed (Certain PFAS NOL) as a category to the Toxic or Hazardous Substance List (TURA List).³⁰ Following votes from the Administrative Council on Toxics Use Reduction and a public comment period, final regulations were promulgated in FY22.³¹ Under these amendments, TURA-covered facilities will be required to report on Certain PFAS NOL manufactured or processed at the 25,000 lb. threshold, or otherwise used at the 10,000 lb. threshold, per year. The addition of Certain PFAS NOL to the TURA List will enhance understanding of the use of these chemicals in industry and enable industry to proactively reduce PFAS contamination at its source rather than reacting after contamination has occurred. Listing Certain PFAS NOL under TURA would help manufacturers understand their use, identify opportunities for reduction or elimination, and reduce manufacturers'

²⁴ https://www.epa.gov/pesticides/pesticide-devices-guide-consumers

²⁵ https://www.epa.gov/coronavirus/why-arent-ozone-generators-uv-lights-or-air-purifiers-list-n-can-i-use-these-or-other

²⁶ https://www.epa.gov/compliance/pesticide-establishment-registration-and-reporting

²⁷ https://www.informedgreensolutions.org/

²⁸ Purchase and Use Challenges and Solutions for Cleaning and Disinfecting Equipment, Products, and Services webinar on 5/20/21, https://www.youtube.com/watch?v=KFtnZlhOqb8/(is_direct_download)/1

²⁹ https://www.epa.gov/pfas

³⁰ https://www.turi.org/Our Work/Policy/Toxics Use Reduction Act/Councils and Committees/TURA Science Advisory Board

^{31 &}lt;u>https://www.mass.gov/tura-regulations-and-amendments</u>

liability.³² OSD will continue to communicate regulatory changes in bids and to Statewide Contract vendors to encourage offering products without PFAS.

Fire-fighting Foam: The TRTF provided information to the OSD EPP Program in a presentation made to the PSE01: Public Safety Equipment and Two-Way Radio SSST, recommending they require bidders of firefighting foam to also offer third-party certified options of <u>GreenScreen</u> <u>Certified</u>[™] for Firefighting Foam. This option requires manufacturers to disclose all intentionally added chemicals in the product, requires analytic testing to ensure products are free from Per- and Poly-fluoroalkyl Substances (PFAS), and prohibits more than 2,000 other chemicals of high concern.³³ TURI and OTA continue to collaborate with other state and local governments through the <u>Interstate Chemicals Clearinghouse (IC2)³⁴</u> to share information and experiences with fluorine-free foams (F3).



TURI also is part of a federal DOD-funded alternatives assessment project, begun in FY21, that is working to understand gaps in comprehensive

alternatives assessments for <u>Aqueous Film Forming Foam (AFFF)</u>.³⁵ TURI is reviewing existing assessments; developing generalizable approaches and guidance to strengthen future alternatives assessments by defining criteria for "safer," non-fluorinated AFFF alternatives and determining "fit for purpose" performance assessment considerations; and understanding lessons learned from existing efforts to accelerate the adoption of safer alternatives to AFFF, including barriers and enabling factors.

Fire Fighting Gear: Massachusetts buyers have asked OSD if there are options for PFAS-free firefighting gear available on Statewide Contract, which there are not. The TRTF met with members of the <u>Nantucket PFAS</u>

Action Group³⁶, one of the organizations looking for PFAS-free gear on Statewide Contract, to learn more about the market issues to acquire PFAS-free gear. Turnout gear pants and jackets are comprised of an outer shell, a moisture barrier, and a thermal barrier. As the middle layer of the three-layer turnout gear, the moisture barrier needs to pass a light degradation resistance test. The National Fire Protection Association (NFPA)³⁷ regulates standards on firefighting gear, and this past year accepted comments on whether to change a component of the NFPA 1971 Standard, Section 8.62, to remove the light degradation resistance test. This specific requirement has prevented PFAS-free moisture barriers from being sold, since PFAS-free gear does not pass this test. OSD submitted a comment to the NFPA³⁸ that if PFAS-free firefighting gear was available in the marketplace, OSD would include it on Statewide Contracts.



³² https://myemail.constantcontact.com/TURA-Amendments-Filed.html?soid=1126915440353&aid=b5LpOKYYFRI

33 https://www.greenscreenchemicals.org/certified/fff-standard

- 35 https://www.serdp-estcp.org/Program-Areas/Weapons-Systems-and-Platforms/Waste-Reduction-and-Treatment-in-DoD-Operations/WP19-1424/WP19-1424
- 36 https://www.pfasactiongroup.com/nantucket-fd
- 37 <u>https://www.nfpa.org/</u>

^{34 &}lt;u>http://theic2.org/#gsc.tab=0</u>

³⁸ https://www.nfpa.org/assets/files/AboutTheCodes/1971/1971_A2017_FAE_SPF_TIA_Log1594_Ballot_PCCirc.pdf

In July 2021, the NFPA Technical Committee on Structural and Proximity Fire Fighting Protective Clothing and Equipment <u>voted against the amendment</u> to eliminate the current requirement that ensures the presence of PFAS in firefighter turnout gear, and in August rejected an appeal to change the amendments and expressed concern that removing the light degradation resistance test without understanding how its removal would affect the moisture barrier could be a serious risk to firefighter safety, given that the barrier is a primary protection from water and other common liquids firefighters may encounter on the job.³⁹ For this reason, there are no PFAS-free firefighting gear on Statewide Contracts.

Flame Retardants: On January 1, 2021, Governor Baker signed the Acts of 2020, Chapter 261, adding Section 28 to Chapter 21A of the Massachusetts General Laws which regulate 11 flame retardants in five categories of consumer goods and restrict each of the flame retardants to no more than 1,000 ppm in any component of the product, excluding all intentionally added flame retardants.⁴⁰ The new law defines covered products that include bedding, carpeting, children's products, residential upholstered furniture, and window treatments. Although this regulation impacts manufacturers, OSD will continue to communicate these regulatory changes in bids and to Statewide Contract vendors.

GOAL: Offer updates on new and innovative EPPs, technologies, and services.

Environmentally Preferable Cleaning Products, Programs, Equipment and Supplies:

Rebid of FAC85: During FY21, OSD assembled its SSST for the rebid of FAC85⁴¹ to FAC118 for environmentally preferable cleaning products, equipment, and supplies. This remains a multistate cooperative including Connecticut, Rhode Island, New York, and New Hampshire, with two additional states joining the team: Vermont and Maryland. The team also includes representatives from the Department of Public Health, Division of Capital Asset Management and Maintenance, Toxics Use Reduction Institute, and Responsible Purchasing Network. The SSST surveyed buyers, vendors, and interviewed multiple third-party certifications about their programs. Through FY21 the SSST continued to review, evaluate, and develop the specifications for the bid which was released in December 2021.

Commercial Battery Powered Landscape Equipment:

- » New OSD EPP Webpage Battery Powered Landscape Equipment: This newly created webpage includes information for buyers on how to purchase battery-powered equipment, find services from landscapers using battery-powered equipment, and how to manage spent batteries. The webpage also provides a list of benefits, reviews additional guidance, provides links to relevant organizations, and has a link to the LBE Battery Powered Landscape Equipment flyer⁴², which reviews state agency benefits and case studies.
- » **New Contract for Lawns & Grounds, Equipment, Parts and Services Statewide Contract:** FAC116 was initiated in FY21 and includes Category 13 for battery powered options.
- Workshop Training: The OSD EPP Program presented information on commercial battery powered options on Statewide Contract in September 2021 during a Quiet Communities-sponsored workshop (see <u>Appendix C</u> for info about this nonprofit) with the towns of Lexington and Wellesley titled *It's Electrifying! Commercial Land Care Workshop*. In addition, OSD presented information about the availability of battery powered equipment on Statewide Contract at a meeting titled *Leaf Blowers & Our Health: What's Right for Wellesley?* sponsored by Sustainable Wellesley, Town of Wellesley Sustainable Energy Committee, and Wellesley Natural Resources Commission.
- 39 https://www.nfpa.org/-/media/Files/Codes-and-standards/standards-council/August-2021/FD_D21_13_SC_21_8_45_d_NFPA_1971_TIA_1594.ashx
- 40 https://www.mass.gov/regulatory-bulletin/prohibition-on-the-manufacture-distribution-sale-of-certain-flame-retardants-in-massachusetts
- 41 https://www.mass.gov/doc/fac85/download
- 42 https://www.mass.gov/doc/battery-powered-landscaping-equipment-for-state-facilities/download

Fuel Efficient Vehicles:

EO594 Fleet Electrification Requirements: EO594 accelerates the transition of state fleets to zero emission vehicles (ZEVs) by setting incremental fleet electrification targets from 2025 through 2050; mandating that all state fleets acquire ZEVs in phased targets based on gross vehicle weight rating (beginning with lighter-duty assets and increasing to include all on-road assets in the state fleet), with requirements starting in fiscal years 2023, 2025, and 2030 respectively; and setting goals to more than double the deployment of electric vehicle charging infrastructure at state facilities by 2030. Since July 1, 2021, EO594 also requires that all entities who store diesel fuel in onsite storage tanks purchase a minimum 5% biodiesel blend.



- Tracking Executive Agency Alternative Fuel Purchases: OSD continues to work with DOER's LBE Program on the Green Fleet Committee (GFC) to track executive agency fleet purchases for the Fuel Efficiency Standard for State Fleets (FES)⁴³, which went into effect in August 2016. In FY21, DOER reports that 29 alternative fuel vehicles (AFVs) were purchased in FY21. representing 22% of the acquisitions (24 HEVs, 3 PHEVs, and 2 BEVs), and resulted in an increase to 42 average combined MPG compared to a 21 average combined MPG of the vehicles turned in. This increased efficiency and reliance on cleaner fuel sources is projected to save more than 72.6 MTCO2e annually. Notably, eight conventionally fueled police interceptor units were replaced by the 2021 Ford Explorer Police Interceptor hybrid, increasing the average combined fuel economy from 17 to 24 MPG (a 46% improvement) and estimated to reduce roughly 18.1 pounds of CO2 equivalent annually (a 30% improvement over vehicles turned in).
- » Updating the Fuel Efficiency Standard for the State Fleet: In addition to tracking annual compliance with FES, the GFC also is responsible for updating the FES as new technologies emerge and vehicle efficiency increases. The GFC is in the process of updating the FES to better reflect the current technology market, and the clean transportation targets and objectives set forth in Executive Order 594. Key updates will include an emphasis on alternative fuel vehicles, particularly zero-emission vehicles, and an increase to the combined MPG requirements for various vehicle classes covered by the FES. The updated FES is set to go into effect July 1, 2022, in coordination with the Executive Order 594 FY23 ZEV acquisition target, which will require all vehicle acquisitions of 8,500 pounds gross vehicle weight or less to be ZEV.⁴⁴
- 43 https://www.mass.gov/files/documents/2016/10/tq/fuelefficiencystandard-final.pdf
- 44 https://www.mass.gov/info-details/leading-by-example-executive-order-594-decarbonizing-and-minimizing-environmental-impacts-of-stategovernment?auHash=YidGOx6nid6XC-6S2QDvKRz50VDJrAoAYM5IjqOaJ8k

- Rebid of VEH98 for Light- and Medium-Duty Vehicles: The SSST for the rebid of the VEH98 light duty vehicle contract worked to evaluate specifications for inclusion in the new VEH110 contract. Through FY21, the SSST continued to review, evaluate, and develop the specifications for the bid which was released in December 2021.
- » **EPP Webpage Update:** An update was made to the <u>EPP Alternative Fuel Vehicles webpage</u>⁴⁵ which focuses on the transition to electric vehicles as the most environmentally preferable option. It provides guidance, links to incentive programs, and links to other important resources for electrifying fleets.
- Fuel Efficient Vehicle Articles in Buy the Way: OSD published three articles on fuel efficient vehicles in FY21. See <u>Appendix F</u> for links to the articles.

Biofuels Expansion:

- ENE52 includes APS Biofuels: The OSD EPP Program and the LBE Program worked together to research the biofuel market in Massachusetts by gathering information about previous contracts, use, and existing specifications and interviewed the vendors on ENE47 heating fuels contract. Recommendations were made to identify a minimum of 10% Alternative Portfolio Standard eligible biofuel⁴⁶ in the rebid of the ENE47 to ENE52 No.2 Heating Fuel and APS Eligible Liquid Biofuel Statewide Contract.
- » EO594 Biofuel Requirements: The LBE Program also identified biofuels in EO594 that, "all agencies still utilizing heating oil as of July 1, 2021, shall ensure that any heating oil product purchased shall consist of at least 10% biofuels (i.e., B10) Agencies shall work with LBE to identify opportunities to increase biofuel consumption to as high a level as is practicable. Agencies may be exempt from this requirement if biofuels are not readily available or are cost prohibitive, or if a specific performance constraint is identified." OSD will continue to identify biofuels as an option for heating oil.

Surplus Property Program:

Housed in OSD, the State Surplus Property Office (SSPO) is responsible for managing the disposal, transfer, and sale of stateowned property that exceeds agency needs – items such as office equipment, furniture, and clothing. This allows products to be reused instead of purchased as new, which is environmentally preferable. Between the State and Federal Surplus programs, the SSPO saves its customers, on average, more than \$4 million dollars a year compared to purchasing new items.⁴⁷ In addition, the SSPO is building a software application that will allow state agencies to report available surplus property electronically, making it a paperless process.

GOAL: Provide an overview of how OSD encourages state contractors to incorporate EPPs and sustainable practices in their operations.

NERC/APR Demand Recycling Advocate: OSD signed on as an advocate for the Government Recycling Demand Champion Program run by the Northeast Recycling Council (NERC) in partnership with the Association of Plastic Recyclers (APR). The initiative encourages state, local, and regional government entities to support recycling efforts by purchasing products that contain post-consumer recycled (PCR) plastic. The Program offers free technical assistance and training, recognition, and tools.⁴⁸ As part of OSD's commitment, a fact sheet of products with post-consumer recycled content on Statewide Contracts was developed and posted on an updated EPP webpage <u>Recycled and Buy Recycled! Close the Loop</u>⁴⁹ and an announcement about the program was in issue #10 of *Buy the Way, "Join the Government Recycling Demand Champion Program"* (see <u>Appendix F</u>: Marketing and Communication of EPP).

47 As reported by Ted Bunnell, SPPO Coordinator for the Office of Vehicle Management, January 2022.

⁴⁵ https://www.mass.gov/guides/epp-program-environmentally-preferable-products-and-services-on-statewide-contracts#-alternative-fuel-vehicles-

⁴⁶ https://www.mass.gov/service-details/qualifying-eligible-liquid-biofuel-in-the-aps

⁴⁸ https://nerc.org/projects/government-recycling-demand-champions

⁴⁹ https://www.mass.gov/doc/post-consumer-recycled-plastic-products-on-statewide-contract/download

Incorporating EPPs into the Strategic Sourcing Process: OSD's EPP Program continued to work with the OSD Strategic Sourcing Managers (SSMs) to incorporate review of EPP opportunities in bids and renewals. It was decided that for every rebid and renewal the SSMs would need to document EPP opportunities in an EPP Process and Project Plan, which would be saved in the official procurement file. This effort ensures that EPP opportunities are documented as part of the strategic sourcing process.

Current Environmental Practices Form: OSD's EPP Program continues to work with SSMs to include the Current Environmental Practices Form in all bids. The purpose of this form is to encourage potential Bidders to communicate existing business practices that foster a sustainable approach to conducting their operations. This may include practices that have a reduced impact on the environment or public health, such as, but not limited to, creating less waste by using less packaging; eliminating the use of substances and/or materials that are considered toxic; or using alternative fuel vehicles in the delivery fleet for the purpose of reducing air pollution and greenhouse gas emissions. The Commonwealth considers such initiatives part of the "best value" of procurement. The form was updated with questions regarding efforts to decarbonize their operations.

GOAL: Support the development of appropriate training and outreach on procuring EPPs and identification of their fiscal, environmental, and health benefits.

Throughout the year, OSD's EPP Program presented information and provided resources to buyers, vendors, other states, and non-profit organizations about EPPs in SWCs. In addition, we continue to work with OSD's Training unit to incorporate and present information about EO515 into training sessions and coordinate with OSD's Marketing, Communications, and Events team (MCE) to market EPP information to our customers/ constituents. OSD primarily uses its *Buy the Way* magazine to communicate news and contract information to our vendor and buyer communities. See <u>Appendix F</u> for a list of articles, outreach, and training sessions. The EPP Program staff continue to work with inter-agency and non-profit groups (see list in <u>Appendix C</u>) to discuss products and programs to advance environmentally preferable products on Statewide Contracts.

The OSD EPP Program updated the following webpages: Alternative Fuel Vehicles, Commercial Battery Powered Landscape Equipment, Recycled and Buy Recycled! Close the Loop, and added model sustainable purchasing policies to the website.



Conclusions and Considerations for FY22

With the passing of the Commonwealth's new climate legislation and signing of the LBE's EO594, OSD will continue to work closely with EOEEA and DOER's LBE program to explore opportunities to review policies, update contract language to reflect any new actions, and work to identify opportunities for OSD to advance efforts to decarbonize the Statewide Contracts.

OSD staff continued to be deeply involved in the Commonwealth's efforts to help combat the outbreak of the COVID-19 virus. As the Commonwealth's State of Emergency was removed and global supply chain issues for cleaning and disinfecting products lessened, the EPP requirements were reinstated and once again require specified safer active ingredients for disinfectants. The OSD EPP Program will play a major role in specification development for the rebid of the multi-state FAC118 contract for environmentally preferable cleaning products and supplies and will continue to coordinate review of alternative cleaning and disinfecting products, application equipment, and devices through the TRTF.

We strive to continue the many partnerships with Commonwealth agencies, non-profits, and other states which help us find new and innovative solutions to buying green. The OSD EPP Program will represent OSD on the MassDEP's <u>Recycling</u> <u>Market Development Workgroup</u>,⁵⁰ being assembled in FY22, to help guide the development of a comprehensive Recycling Market Development Action Plan and explore if and how Statewide Contracts might be used to advance the market development goals. The OSD EPP Program will continue to represent the Commonwealth on the national NASPO ValuePoint (NVP) Maintenance, Repair and Operations Sourcing team in the rebid by remaining a subject matter expert. The OSD EPP Program advocated for funding assistance for this team in the rebid, which was granted by NVP, to help with environmentally preferable specifications and bid development.

The OSD EPP Program will continue to work on strategies to integrate environmental and health considerations into Statewide Contracts. This effort includes working with SSSTs to explore environmental specifications, co-chairing the TRTF, coordinating recommendations for OSD's Statewide Contracts, and hosting a webinar on saving money using EPPs in January 2022. We will develop information on PFAS-free products on Statewide Contracts and continue our work to automate data collection to track annual progress.

Much of our groundbreaking work to document issues with environmental claim verification has provided opportunities to dialogue with others. The Sustainable Operations Group at the <u>Lawrence Berkeley National Laboratory</u>⁵¹ used the report in an e-procurement workshop at a recent SPLC conference. Throughout FY22, OSD will participate in a SPLC/Lawrence Berkley National Laboratory E-Procurement Systems Supporting Sustainable Purchasing workgroup to explore barriers and opportunities to include sustainable purchasing in these systems.

The measures reported in this report demonstrate the immense value of the EPP Program and helps confirm the business case for supporting sustainable product choices.

In FY22, the OSD's EPP Program will continue to:

- » Work with EOEEA and DOER's LBE Program to identify opportunities for OSD to advance efforts to decarbonize the Statewide Contracts.
- » Identify safer product solutions available on SWC to combat COVID-19.

⁵⁰ https://www.mass.gov/service-details/massdep-recycling-market-development-workgroup 51 https://buildings.lbl.gov/sustainable-acquisition

- » Integrate EPP considerations into the strategic sourcing process.
- » Work on automating collection of EPP data to track annual progress and participate in the e-procurement systems supporting sustainable purchasing workgroup.
- » Review various chemicals in products on SWCs and offer research and procurement advice on alternatives. Provide information about PFAS-free products on Statewide Contract.
- » Support statewide programs to promote other environmental initiatives and foster partnerships with national organizations to pool resources and market successes, including the MassDEP's Recycling Market Development Workgroup and hosting a webinar on saving money by using EPPs.
- » Provide information on EPPs to buyers and vendors through *Buy the Way*, guides, fact sheets, webinars, presentations, and social media.



Appendix A: Calculating Cost Savings

Cost Savings from Energy Efficient Light Emitting Diodes (LEDs), Including Labor Savings:

The table below reflects estimated cost savings from purchasing LEDs from Statewide Contracts. In past reporting, OSD calculated the amount of energy saved by assuming that LEDs were being used in lieu of, or replacing, existing incandescent bulbs. Due to changes in the lighting market, LEDs and other energy efficient options have become much more commonplace, effectively becoming the default lighting option for many facilities. The short return on investment, coupled with the variety, availability, and declining costs of these high-quality products have effectively contributed to a transformation in the lighting marketplace and we will see less savings as from previous reports. In Massachusetts, use of LEDs also is specified as a requirement for two of the maintenance, repair, and operations contracts (FAC100 and FAC101). This means that LEDs purchased off Statewide Contracts today may be replacing existing LEDs or other efficient lighting fixtures rather than incandescent bulbs, which are becoming less commonplace. For this reason, OSD has decided not to use incandescent energy use as a baseline for a lighting savings calculation except for work lights, exit signs, and streetlighting. In addition, we have not included any savings from purchases of flashlights, penlights, and headlamps.

In consultation with the Department of Energy Resources, we have decided to use a baseline that also is used by energy efficiency incentive programs such as Mass Save⁵² to calculate energy savings from lighting building retrofits. This baseline comes from the <u>C&I Lighting Market Characterization Report</u>⁵³ prepared for the Massachusetts Mass Save Program Administrators and the Energy Efficiency Advisory Council. This report estimates the market share of different types of lighting fixtures sold in Massachusetts in previous years to determine a baseline wattage for lighting. The baseline used for FY21 assumes that lighting fixtures and bulbs installed in 2016 are due to be replaced. Based on market saturation data for that year, Program Administrators will use a savings estimate of 74.5 watts for a baseline in FY21.⁵⁴ In addition, we decided to eliminate any labor cost savings associated with bulb replacement – previous savings calculations estimated the reduction in labor to change shorter-life incandescent bulbs to longer-lasting energy efficient bulbs, but since lighting has changed quickly from using incandescent to compact fluorescents (CFLs) to LEDs, we believe this cost savings is limited, as many have switched to LEDs. As the market saturation shifts to mostly LEDs, there will be limited savings. The following calculations were used to identify savings:

- » For work lights, exit signs, and streetlighting, an incandescent wattage equivalent was estimated, and cost savings were calculated as follows: (Incandescent watts LED watts) * #bulbs = watts saved x \$.1603 (average cost per commercial Kwh in Massachusetts for FY21⁵⁵) = \$ saved.
- » For all others, cost savings was calculated as followed: (74.5 watts LED watts) * #bulbs = watts saved x \$.1603 = \$ saved.

Estimated Energy Cost Savings from LEDs in FY21		
LEDs	\$433,942	

⁵² https://www.masssave.com/en

55 https://www.eia.gov/electricity/sales_revenue_price/pdf/table5_b.pdf

⁵³ https://ma-eeac.org/wp-content/uploads/MA-CIEC-Lighting-AML-PY21-PY22_FINAL_20210706.pdf

⁵⁴ https://ma-eeac.org/wp-content/uploads/MA-CIEC-Lighting-AML-PY21-PY22_FINAL_20210706.pdf, p.3

Cost Savings from Energy Efficient Office Equipment:

All computers, laptops, tablets, monitors, copiers, and multifunctional devices sold from SWCs must be listed on the Electronic Product Environmental Assessment Tool (EPEAT) registry, managed by the <u>Global Electronics Council</u>, and mobile phones and servers were included as desirable criteria.⁵⁶ The registry verifies that products meet multi-attribute environmental performance standards for electrical products, including component substance management, product packaging, design, product longevity, and end-of-life management. The registry also includes a lifecycle assessment and corporate responsibility component. Through vendor-reported data, the EPP Program quantified the purchase of EPEAT registered devices through various SWCs. OSD uses the Global Electronics Council's <u>EPEAT Benefits Calculator</u>⁵⁷ for servers, computers, monitors, and, new this year, mobile phones. We use the EPA's <u>Electric Environmental Benefits Calculator</u>⁵⁸ for imaging equipment to quantify annual and cumulative lifetime cost savings as shown below. It also assumes a 4.6-year lifetime for all equipment to calculate FY21 savings:

Estimated Cost Savings from Energy Efficient Office Equipment for FY21				
	FY21	Lifetime (includes FY21 savings)		
EPEAT Registered Computers, Laptops, Tablets, Monitors, Mobile Phones	\$1,594,281	\$7,333,281		
EPEAT Registered Copiers and Multifunctional Devices	\$135,000	\$627,070		
EPEAT Registered Servers	\$36,901	\$169,745		
EPEAT Registered Mobile Phones	\$65.45	\$301.09		
Total	\$1,767,478	\$8,130,398		

Cost Savings from Using Remanufactured Laser Printer Toner Cartridges:

Remanufactured toner cartridges (remans) are produced from recycled empty toner cartridges that are disassembled, inspected, cleaned, reassembled, refilled, and tested for quality assurance to ensure optimal performance. In 2012, the <u>ITD/OSD Enterprise Cartridge Acquisition Policy</u>⁵⁹ was implemented and it required all Executive Agencies to purchase remanufactured laser printer toner cartridges whenever available. This requirement also applies to Non-Executive Agencies using Commonwealth Information Technology Capital Funds.

Remans are available on <u>SWC ITC66: Copiers, Printers, Scanners and Related Devices and Services</u>⁶⁰. In FY21, OSD calculated savings from reman use over the cost of using OEMs. Savings are calculated by averaging the cost of OEM printer toner cartridges sold minus the average cost of remans multiplied by the number of remanufactured cartridges sold.

Estimated Savings From Using Remanufactured Printer Toner Cartridges for FY21					
	# of OEM	Average \$ Per OEM	# Remans	Average \$ Per Reman	Total Contract Cost Savings From Using Remans
FY 2021	58,182	\$125.96	8,243	\$65.71	\$496,655

⁵⁶ The Global Electronics Council, http://www.globalelectronicscouncil.org/

⁵⁷ EPEAT Benefits Calculator: https://epeat.net/calculators

⁵⁸ https://epeat.net/calculators

⁵⁹ Information Technology Division/OSD Enterprise Cartridge Acquisition Policy: https://www.mass.gov/files/ documents/2016/07/ox/enterprise-toner-cartridges-policy-itdandosd.docx. ITD has since become the Executive Office of Technology Services and Security.

⁶⁰ ITC66: Copiers, Printers, Scanners and Related Devices and Services: https://www.mass.gov/media/1256626/download

Cost Savings from Using Fuel Efficient Vehicles:

The DOER's LBE Program reviews annual Executive Agency fiscal year purchases and evaluates compliance of these acquisitions with the FES and against the vehicles being replaced. In FY21, 24 hybrid electric vehicles (HEV) replaced all conventional fuel vehicles, three plug-in hybrid vehicles (PHEV) replaced one conventional minivan and two hybrid minivans, and two battery electric vehicles (BEV) replaced conventional fuel vehicles.

Alternative Fuel Vehicle Acquisitions & Conversion FY17-FY21 (includes battery-electric (BEV), plug-in electric (PHEV), hybrid electric (HEV), and hybrid conversion vehicles)				
Fiscal Year	HEV	PHEV	BEV	Hybrid Conversion Completed
2017	1	1	0	52
2018	14	0	6	3
2019	19	0	4	1
2020	20	0	1	0
2021	24	3	2	0
Total	78	4	13	56

As shown below, a review of 101 purchases in FY21 showed an estimated annual fuel cost savings of \$35,000 through improved fuel efficiency when compared to vehicles turned-in, and \$280,000 in lifetime savings⁶¹. FY21 also shows a 14% decrease in the average fuel gallons used per vehicle and a \$0.03 decrease in cost per fuel mile compared to FY 2017 acquisitions⁶².

FY17 – FY21 Fuel Efficiency Standard Impacts (comparing vehicles acquired to vehicles turned-in)					
Fiscal Year	## ofAnnual% MPGcalPurchasingAcquisitionsFuel CostAverage MPGImprovementarAgenciesEvaluatedSavings (\$)(acquisitions)over turn-in				
2017	13	123	\$34,000	19 MPG	32%
2018	20	138	\$42,000	25 MPG	40%
2019	11	125	\$46,000	20 MPG	36%
2020	16	97	\$21,000	24 MPG	18%
2021	13	101	\$35,000	25 MPG	36%

61 This includes an 8-year life of vehicle assumption.

62 As reported by the DOER Program to the OSD, January 2022.

Appendix B: Calculating Environmental Benefits

Environmental Benefits from Using Recycled Content Products:

OSD reviewed vendor sales reports to quantify products containing recycled content: office paper; janitorial/food service paper goods; plastic products; recycling containers, compost bins, trash can liners and Pay-As-You-Throw bags; remanufactured toner cartridges; recycled mulch; and compost. Weights per unit of measure were calculated and multiplied by the percentage of recycled content to determine the weight of recycled content material used in the product. Amounts were entered into EnviroCalc, a tool which calculates cost savings and other environmental benefits. EnviroCalc was designed by OSD staff many years ago and is pre-populated with formulas from other online calculators to automatically determine the various environmental benefits estimates:

Estimated Environmental Benefits Summary from Purchasing Recycled Content Products for FY21				
Environmental Benefit Estimates:				
Weight of Material Recycled (tons)	4,078			
Landfill space savings (cubic yards)	24,090			
Wood saved (trees)	31,495			
Energy saved (million BTU)	3,437			
Carbon Dioxide Emissions Reduced (tons of CO2) 248				
Environmental Benefit Equivalent to				
Annual Solid Waste Generation of:				
# of Households	1,917			
# of Loaded Garbage Trucks	1,204			
Energy content of # of Barrels of Oil	593			
Emissions from # of vehicles driven for one year	49			

Environmental Benefits from Using Energy Efficient Products:

The amount of kWh savings from using LEDs was calculated, and entered in the US EPA's <u>Greenhouse Gas Equivalencies</u> <u>Calculator</u>⁶³, and provides the following environmental benefits estimates and benefit equivalents from reduced energy use:

Estimated Environmental Benefits Summary from Purchasing LEDs for FY21					
Environmental Benefit Estimates:FY21LifetimeGincludes FY21 savings)					
Electrical energy savings (kWh)	2,705,375	32,464,500			
Carbon dioxide emissions reduced (MTCO2e)	1,917	23,007			
Environmental Benefit Equivalent to					
CO2 emissions from # Gallons of Gasoline Consumed	215,708	2,588,840			
Emissions from # of vehicles driven for one year	417	5,004			

63 https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

EPEAT-registered equipment, including computers, laptops, tablets, monitors, multi-functional devices, printers, copiers, fax machines, scanners, servers, and mobile phones from various contracts were tallied by EPEAT registration type (gold, silver, bronze) and entered into one of two calculators to quantify annual and cumulative lifetime electrical savings and reduction in MTCO2e: the Global Electronics Council's <u>EPEAT Benefits Calculator</u>⁶⁴ for mobile phones, servers, computers, and displays, and the EPA's <u>Electric Environmental Benefits Calculator</u>⁶⁵ for imaging equipment. The calculators assist organizations in estimating the environmental benefits of greening their purchase, use, and disposal of different electronics.

Environmental Benefits from Purchasing Energy Efficient Products for FY21			
Environmental Benefit Estimates:	Lifetime		
Electrical energy savings (KwH)	231,262,940		
Metric Tons of Carbon Dioxide Equivalent Reduced	54,667		
Environmental Benefit Equivalent to			
Greenhouse gas emissions from # of vehicles for one year	12,312		

Environmental Benefits from Purchasing Fuel Efficient Vehicles:

The Commonwealth is working to integrate the state fleet with highly efficient hybrid, alternative fuel, or electric vehicles. In FY21, 101 new purchases averaged 25 combined MPG (a 36% improvement over FY21 turn-ins⁶⁶). Increased vehicle efficiency, along with lower emission electric technologies, are estimated to reduce annual emissions by more than 122 MTCO2e equivalent, with lifetime savings⁶⁷ of 976 MTCO2e.

- 64 EPEAT Benefits Calculator: https://epeat.net/calculators
- 65 http://app2.erg.com/EEBC-Imagingv1/eebcCalculator.do
- 66 As reported by DOER's Leading By Example Program, January 2022.
- 67 This includes an eight-year life of vehicle assumption.

Environmental Benefits from Diverting Waste to Recycling:

OSD collects vendor-reported data regarding materials disposed of, recycled, and composted on various SWCs. In FY21, OSD's vendors documented materials diverted from disposal to recycling from the following contracts – FAC86: Solid Waste and Recycling; FAC90: Carpet and Mattress Recycling Services; FAC96: Records Management, Storage and Archiving Services and Moving Services; and FAC86/110: Hazardous/Universal, Medical, Electronic Waste Disposal and Emergency Response – as listed below. OSD used the EPA's Waste Reduction Model (WARM)⁶⁸ to calculate estimated reductions in MTCO2e from all but street sweepings, ballasts and bulbs, and batteries:

Tons of Waste Diverted From Disposal for FY21			
Street Sweepings	3,552		
Construction and Demolition	1,775		
Mixed Paper	1,244		
Leaf, yard, and floating vegetation	1,169		
Electronics	1,094		
Old Corrugated Containers (Cardboard)	986		
Asphalt Brick Concrete	574		
Wood	440		
Single Stream Recyclables (Containers, Paper, and Cardboard)	377		
Bulky Waste, including Mattresses and Furniture	328		
Ballasts and Bulbs	294		
Tires	269		
Metal	807		
Food Waste	142		
Batteries	21		
Textiles	2		
Total Tons	13,049		
Environmental Benefits Equivalent to			
Reduction in MTC02e	15,475		
Greenhouse gas emissions from # of passenger vehicles driven for one year	3,285		
Number of gallons of gasoline conserved	1,741,252		
NOTE: street sweepings, ballasts and bulbs, and batteries are not included in the EPA WARM model			

68 EPA created the Waste Reduction Model (WARM) to help solid waste planners and organizations track and voluntarily report greenhouse gas (GHG) emissions reductions from several waste management practices. https://www.epa.gov/warm

Appendix C: EPP Partnerships

Commonwealth Inter-Agency Partnerships:

- » DCAMM: Energy & Sustainability Program
- » DCAMM: Massachusetts Association of Facility Maintenance Officials
- » DOER Leading By Example Program
- » DOER Green Communities Program
- » DOER Clean Cities Program
- » Executive Office of Environmental Affairs Office of Technical Assistance and Technology
- » DEP Solid Waste and Recycling Program
- » DEP Clean Energy and Results Program
- » Department of Public Health Occupational Health Surveillance Program
- » Department of Labor Standards

Non-Profit Partnerships:



Asthma Regional Council of New England (ARC): ARC's mission is to reduce the impact of asthma across New England, through collaborations with health, housing, education, and environmental organizations focused on the contribution of schools, homes, and communities to the disease and with attention to its disproportionate impact on populations at greatest risk. The EPP Program has worked with ARC to distribute green cleaning information. <u>www.asthmaregionalcouncil.org</u>

SECEN CENTER for ENVIRONMENTAL HEALTH Center for Environmental Health (CEH): The CEH is a non-profit organization dedicated to working with parents, communities, businesses, workers, and government to protect children and families from toxic chemicals in homes, workplaces, schools, and neighborhoods. The EPP Program continued to participate in a national workgroup to discuss flame retardants in furniture and other products. www.ceh.org



Healthy Schools Network: Non-profit that promotes collaborative research and policy development and advanced systemic reforms in three core areas defining children's environmental health at schools. The EPP Program works with the Health Schools Network to distribute green cleaning information and identify healthier products in schools. www.healthyschools.org



Informed Green Solutions: Provides education and technical assistance on how to transition to a more sustainable footprint through purchasing decisions. <u>www.informedgreensolutions.org</u>



Massachusetts Clean Energy Center (CEC): A publicly funded agency dedicated to accelerating the success of clean energy technologies, companies, and projects in Massachusetts. The EPP Program has worked with the CEC to market the FAC100 Category 10 program for innovative environmentally preferable products in MRO contracts. <u>www.masscec.org</u>



Massachusetts Coalition for Occupational Safety and Health (MassCOSH): MassCOSH works with workers, unions, community groups, and environmental and health activists to end dangerous working conditions; organize for safe, secure jobs; and advocate for healthy communities through training, technical assistance, and building community/labor alliances. MassCOSH has worked with the EPP Program to advance green cleaning in schools within Massachusetts and participated on the FAC85 Sourcing team. www.masscosh.org



Massachusetts Facility Managers Association: The Association is dedicated to the improvement of our profession, our facility personnel and our physical plants through knowledge and an on-going exchange of information and ideas. <u>https://massfacilities.com/</u>



National Association of State Procurement Officials (NASPO) Green Purchasing Committee: The EPP Program Director served on the NASPO Best Practices Committee which works to identify and share best practices, including environmentally preferable (green) purchasing. <u>www.naspo.org</u>



Northeast Recycling Council (NERC): NERC's mission is to advance an environmentally sustainable economy by promoting source and toxicity reduction, recycling, and purchasing of environmentally preferable products and services. <u>www.nerc.org</u>



Quiet Communities: Non-profit that works with multiple communities across the country to promote clean, sustainable, and quiet outdoor maintenance practices as the valued norm. The EPP Program has worked with QC to advance commercial battery powered landscape equipment in the Commonwealth. <u>www.quietcommunities.org</u>



Responsible Purchasing Network (RPN): Massachusetts was one of the founding members of this highly visible and valuable on-line resource and consulting network for responsible state purchasing. The RPN provided significant technical assistance to Massachusetts in developing specifications for Maintenance, Repair, and Operations contracts. The organization continues to provide guidance and comprehensive materials on a broad range of green purchasing issues. www.responsiblepurchasing.org



Sustainable Purchasing Leadership Council: Non-Profit organization whose mission is to support and recognize purchasing leadership that accelerates the transition to a prosperous and sustainable future. OSD is a member. <u>www.sustainablepurchasing.org</u>

🕥 SILENT SPRING INSTITUTE

Silent Springs Institute: Non-profit that partners with physicians, public health, and community advocates and other scientists to identify and break the links between environmental chemicals and women's health, especially breast cancer. The EPP Program staff worked with the Silent Spring Institute on flame retardant research. www.silentspring.org



Toxics Use Reduction Institute (TURI) at the University of Massachusetts Lowell provides resources and tools to help make the Commonwealth a safer place to live and work. TURI's Green Cleaning Lab participates on the Toxics Reduction Task Force (TRTF). <u>www.turi.org</u>

Appendix D: Estimated EPP Spend for FY21 through Statewide Contracts

Purchases on all contracts were reviewed, and those for EPP Products/ Services were tallied for the year.

- » Some contracts are dedicated EPP contracts and others have identifiable EPP spend, which has been calculated.
- » Spend estimates may fluctuate from year-to-year based on buyer budget availability to purchase goods and services.
- » Fluctuations also may be due to issues with consistency of the vendor-reported data.
- » The EPP Program typically relies on the information submitted by SWC vendors to track the purchases of environmentally preferable products and services and, per the terms of their respective contracts, vendors are required to submit this data on a quarterly basis. However, vendors are not always consistent with how they classify products as EPP in these reports, which may lead to data omissions or inconsistencies.
- » OSD executed the online VRM in FY19 and the EPP Program continues to work closely with SSMs to incorporate EPP data and required reporting conventions into reporting templates to help with data consistency.

Contract Name	Contract Number	FY21 EPP Spend	EPP Product/Service
Clothing, Uniforms, Footwear, Accessories, Personal Care Products, and Bedding	CLT08	\$22,283	Fleece and other environmentally preferable products
#2 Heating Oil Bioheat, No 4 & 6 Residual Oil	ENE45	\$1,231,471	#2, 4, 6 heating oil containing bioblend, Bioheat
Biodiesel and Ultra Low Sulfur Diesel (ULSD)	ENE47	\$123,523	Biodiesel
Demand Response Program	ENE51	\$85,166	Energy demand response program, includes vendor fee/commission and revenue (after commission)
Building Maintenance, Repair and Operations	FAC100	\$2,427,001	Energy efficient lighting, products with third party certification, recycled content, solar, or low toxic
Maintenance, Repair and Operations	FAC101	\$2,813,224	Energy efficient lighting, products with third party certification, recycled content, solar, or low toxic
Landscaping Services	FAC103	\$882,292	IPM, planting, pruning, invasive control, mulching, compost
Landscaping Products, Parks and Recreation Equipment	FAC104	\$1,977,254	Compost, mulch, organic fertilizers, recycled aggregate, green roof supplies, recycled plastic products, erosion control products

Walk-in Building Supplies/MRO Industrial and Building Supplies	FAC105	\$1,070,771	Energy efficient lighting, products with third party certification, recycled content, solar, low toxic, or other environmentally preferable products
Water Treatment Chemicals	FAC106	\$157,922	Less toxic/non-toxic and energy efficient water treatment technologies
Renewable /Alternative Energy Credits	FAC109	\$4,445,236	Management of solar energy credits, includes vendor fee/ commission and revenue (after commission) for SREC, AEC, Class1 RECs
Hazardous Waste and Recycling	FAC110	\$1,033,995	Recycling and safe management of hazardous waste
Recycling Containers, Compost Bins, and Rain Barrels	FAC113	\$694,064	Recycling bins with recycled content and solar trash/ recycling containers
Environmentally Preferable Janitorial Services	FAC81	\$21,710,567	Vendors approved to use third- party certified product (non-COVID disinfection)
Hazardous Waste and Recycling	FAC82	\$27,687	Recycling and safe management of hazardous waste
Environmentally Preferable Cleaning Products, Programs, Equipment and Supplies	FAC85	\$19,034,238	All products are environmentally preferable or third-party certified
Solid Waste and Recycling/Pay as You Throw (PAYT) Bags	FAC86	\$3,947,096	Recycling of multiple materials, recycling credits, and PAYT bags
Recycling Containers and Bins	FAC87	\$1,324,783	Recycling bins made from recycled content and solar trash/ recycling containers
Lawns and Grounds Equipment	FAC88	\$97,974	Non-gas lawn and grounds equipment
Carpet and Mattress Recycling Services	FAC90	\$524,210	Mattress recycling (note: there are no carpet recycling vendors at time of report)
Integrated Pest Management	FAC92	\$2,220,633	Integrated pest management service
Records Management, Storage, Archiving and Moving Services	FAC96	\$3,943,162	Document destruction; recycling services
Floorcoverings and Accessories, Floorcovering Installation, Maintenance and Repairs	FAC98	\$2,504,727	Carpet and hard surface flooring meet third-party environmental certifications and have disclosed chemicals and ingredients
Public Safety Equipment, Supplies, Services and Repairs	FIRO4	\$1,650,051	Products with recycled content, energy efficient, are rechargeable, solar
Drinking Water-General and Emergency Services	GRO34	\$536,485	Onsite filtration system, organic coffee

Foodservice Supplies and Equipment	GRO35	\$1,858,744	Compostable dishware, products with recycled content, Energy Star & WaterSense certified, biobased
Dairy Products	GRO36	\$499,216	Organic or locally sourced
Baked Goods	GRO37	\$0	Organic or locally sourced
Prime Grocer	GRO38	\$19,520,239	Organic or locally sourced
Homeland Security, Public Safety, and Traffic Safety Supplies	HLS06	\$1,682	Products with LED lighting or recycled content, nitrile gloves
IT Hardware and Service	ITC47/ITC73	\$235,883,095	EPEAT Registered and Energy Star equipment
Copiers, Printers, Scanners and Related Devices and Services	ITC66	\$16,797,928	EPEAT Registered and Energy Star equipment and peripherals, remanufactured toner cartridges
Managed Print Services	ITS69	\$219,096	EPEAT Registered and Energy Star Equipment, management of printing to reduce paper and toner use, transition to paperless
Voice and Data Communications Systems, Services and Equipment	ITT50	\$21,401	EPEAT registered equipment, refurbished
Cellular Services & Devices	ITT72	\$54,785	EPEAT registered mobile phones, refurbished, solar
Document Solutions	OFF27	\$37,062	EPEAT Registered and Energy Star equipment
Copiers, Printers, Scanners and Related Devices and Services	OFF32	\$31,662	EPEAT Registered and Energy Star equipment and peripherals, remanufactured toner cartridges
Office, School and Library Furniture, Accessories & Installation	OFF38	\$11,551,307	Lines of furniture meeting the OSD EPP Criteria
Audio, Video, Multimedia Presentation Equipment and Services	OFF40	\$16,772,731	Energy star equipment
Print, Copy & Mail Services, and Printed Promotional Products	OFF44	\$7,902,555	Printers meet EPP criteria, and printing on recycled content paper
Art and Instructional School Supplies	OFF45	\$1,348,225	Products with recycled content or meeting other environmental criteria
Office Products, Recycled Paper & Envelopes	OFF47	\$6,027,156	Recycled content paper, envelopes, and office supplies in addition to low toxic and third party certified
Management Consultants, Program Coordinators and Planners	PRF61	\$2,028,774	Environmental consulting work
Energy Consultants	PRF62	\$2,931,785	Energy consulting work
Environmental Engineering, Diagnostics, and Testing	PRF67	\$2,319,681	Environmental consulting work

Facilities Engineer Services	PRF69	\$2,393,994	Environmental consulting work
Boilers; Drains; Electrical; Fencing; General Contracting; Generator/Turbine; Glass/ Window/Doors; HVAC/Sheet Metal; Painting; Plumbing, Repair Services	TRD01	\$1,655	Solar panel inspections to extend life of panels
Fuel Cards and Fuel Management Services	VEH100	\$20,335,620	Paperless management of fuel purchases
Advanced Vehicle Technology Equipment, Supplies and Services	VEH102	\$386,605	Electric vehicle supply equipment, idle reduction technologies, and after-market vehicle conversion technologies
Windshield and Glass Replacement	VEH103	\$257,820	Windshield glass recycling
Telematics	VEH106	\$1,270,060	Software that assists in optimized driving
Vehicle Rental	VEH112	\$ 473	Hybrid or Electric vehicle rental
Vehicle Maintenance Management Services & Accident Subrogation Services	VEH84A	\$1,362,420	Preventative maintenance and inspections
Heavy Duty Vehicles	VEH93	\$0	Alternative fuel vehicles- battery, propane
Light, Medium, Heavy Duty OEM & NON-OEM Motorized Vehicle Parts, Refined Motor Oil, Lubricants	VEH96	\$626,745	Remanufactured, refurbished, and recycled parts
Light Duty Vehicles- Passenger Cars, SUVs, Trucks, Vans, SSVs and PPVs	VEH98	\$2,595,253	All battery electric, plug-in electric and hybrid electric vehicles
Fleet Information Management System	VEH99	\$348,673.30	Service that tracks vehicle usage
Total		\$432,646,235	

Appendix E: EPP updates in Rebids and Renewals in FY21

DESE: K-12 Health Safety Supply/ PPE Program	This contract was established to provide easier access to COVID supplies for K-12 schools. The EPP Program worked to ensure safer sanitizers and disinfectants were available on this contract.
FAC85: Environmentally Preferable Cleaning Products, Programs, Equipment and Supplies	The EPP Program temporarily took over management of this contract for part of FY21 and provided ongoing information and support to vendors regarding supply chain issues with access to multiple products for cleaning and disinfecting due to COVID. This contract is being rebid to FAC118 and the OSD EPP Program has been the lead for specification development on the multi- state SSST (see p. 14 for more details).
FAC96: Records Management, Storage and Archiving Services and Moving Services	Vendors are required to recycle all recyclable materials resulting from media destruction and provide proof weight of the materials destructed.
<u>FAC101: Facilities Maintenance,</u> <u>Repair & Operations (MRO)</u> Industrial Supplies	This contract is a National NASPO ValuePoint (NVP) contract and the OSD EPP Program participates on the Sourcing Team as an EPP subject matter expert. One of the main EPP requirements for this contract is for vendors to identify the specific environmental certification or recycled content for the products in their online catalogs and to make it easier for buyers to view hazard information about the product in a Safety Data Sheet (SDS). OSD continues to work with the FAC101 vendors to incorporate more EPPs into catalogs and remove products that do not comply with the EPP requirements outlined in the participating addendum. The addendum outlines additional environmental requirements.
FAC105: Maintenance Repair and Operations Industrial and Building Retail Products	This contract was re-opened to include hardware stores. Bidders were required to document their current environmentally preferable practices at their facilities and provide a list of EPPs they sell. Several stores were awarded in FY21.
FAC110: Hazardous/Universal, Medical, Electronic Waste Disposal and Emergency Response	This contract was rebid and continues to include many recycling options for various hazardous and universal wastes. Vendors offering electronics management must either be certified by $\underline{R2}^{69}$ and/or <u>e-Stewards</u> ⁷⁰ for responsible handling of hazardous e-waste.
FAC113: Recycling Containers and Bins	This contract requires products 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. In addition, solar trash and recycling containers are available.
FAC114: Janitorial Services, Environmentally Preferable	This contract was rebid and maintains a requirement from the previous contract that all vendors must use environmentally preferable cleaning products and janitorial supplies, as specified by the FAC85 specifications. Bidders were required to provide an acceptable list of products that were reviewed and approved prior to contract award.
FAC116: Lawns and Grounds Equipment, Parts and Services	This contract was rebid and 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. Commercial Battery Landscape Equipment suggested specifications are available for buyers.

⁶⁹ https://sustainableelectronics.org/r2/70 https://e-stewards.org/

ITC73: IT Hardware and Services	This contract was rebid and requires that all desktops, notebooks, tablets, integrated desktop computers, and displays provided under this contract have achieved either silver registration or higher under the Electronic Products Environmental Assessment Tool (EPEAT) or <u>TCO Certification</u> ⁷¹ , a newer sustainable electronics certification program. OSD staff met with TCO and approved use of the criteria for this certification for this contract, potentially adding additional allowable products to the contract. It is desirable for all servers to also have achieved EPEAT registration.
ITT72: Network Services, Communications Services & Related Equipment	This contract was rebid and incorporated desirable requirements ⁷² for all servers, multi-node-servers, and rack servers provided under the contract to have preference for achieving bronze registration or higher in the EPEAT system in the United States.
OFF50: Audio, Video, Multimedia Presentation Equipment, Supplies and Services	This contract was rebid and requires vendors to offer products that meet federal ENERGY STAR [®] guidelines or, if applicable, be registered with EPEAT. In addition, vendors who purchase cardboard boxes for shipping are required to use boxes with a minimum 35% post-consumer recycled content and to eliminate polystyrene from shipping.
TRD01: Boilers; Drains; Electrical; Fencing; General Contracting; Generator/Turbine; Glass/Window/ Doors; HVAC/Sheet Metal; Painting; Plumbing, Repair Services	This contract was reopened to include solar inspectional services, which had been its own standalone contract.

71 https://tcocertified.com/
72 See the ITT72 Bid, and reference the ITT72_Cat 2-9_RFR 03132020.docx document under Agency Attachments - <u>https://www.commbuys.com/bso/external/bidDetail.sdo?docId=BD-20-1080-0SD03-SRC01-47537&external=true&parentUrl=close</u>

Appendix F: Marketing and Communications of EPPs

Provided content to include EPP highlights in *Buy the Way*, <u>blog posts</u>, and Tweets on a regular basis through multiple OSD communication platforms and marketing channels. The following are links to *Buy the Way*, OSD's magazine, where EPPs have been highlighted. For a full list of past issues visit the <u>OSD News Page</u>:

» August/September 2020:

- > Cleaning, Sanitizing, Disinfecting: What's the Difference?
- > Commitment to Sustainable IT Purchasing Acknowledged
- > New Video: Introduction to Sustainable Purchasing Improving Public Health and the Environment

» October/November 2020:

- > Green Your Fleet with Emerging Technologies and Available Funding Sources
- > Leading By Example (LBE) Awards
- » December 2020 January 2021:
 - > Sustainable Purchasing Policy: Dollars and Cents, and the Environment, Too!
- » March April 2021:
 - > EPP Procurement Program Issues Annual Report for FY20
 - > FY21 Electric Vehicle Purchase Challenge
- » Issue #10:
 - Massachusetts Bolsters Climate Change Efforts: Actions Address Emissions Reductions and Adopting Clean Energy Strategies
 - > EO594 OSD Impacts
 - > Join the Government Recycling Demand Champion Program
 - > View Recent Safe Cleaning Webinar
 - > Funding for Diesel Emission Reduction Projects
- » <u>Issue #11:</u>
 - > Massachusetts: Leader in Sustainable Electronics Procurement
 - > Bottleless Water Options through GRO39: A Cost-Effective, Environmentally Preferable Choice
 - > Newly Launched Contract for Janitorial Services, Environmentally Preferable

The following is a list of Events and Presentations held during FY21 in which the EPP Program staff participated:

- » SPLC Annual Conference: Presented a session at the Sustainable Purchasing Leadership Council Annual Conference — Using Vendor Reporting Management Tool for Easier Environmental Data Reporting on 5/18/2020. In addition, participated in several SPLC Public Sector Peer Learning Circles to discuss state issues related to sustainable purchasing.
- » SPLC Connect: Participated in the Sustainable Purchasing Leadership Council's conference to connect members to vendors of sustainable products on 7/16/2020.

- » Cape Cod Association of Public Procurement Officials (CCAPPO): Presented a webinar to the CCAPPO on Sustainable Purchasing through Statewide Contracts on 9/22/2020.
- » Massachusetts Association of Facility Maintenance Officials (MAFMA): Presented to MAFMA on a webinar *Safer Cleaning and Disinfecting: Navigating for Best Value with COVID Related Purchases* on 10/20/21.
- » Department of Environmental Protection (DEP): Presented a webinar on Sustainable Purchasing at MA DEPs Buy Smart! Buy Recycled Training: *How to Create a Buy Recycled Policy and Purchase Materials with Recycled Content* conference on 11/17/2020.
- » Leading By Example Council: Participated as a council member, and provided several presentations on waste diversion, water conservation, and sustainable landscaping at the Council meetings on 3/9/21.
- » Attended Northeast Waste Management Officials Association (NEWMOA) IC2 Workgroup Meetings: Presented information about EPPs in Statewide Contracts and updates from the TRTF.
- » OSD Training Sessions: These sessions incorporate buyer and vendor EPP and EO515 requirements as outlined in the *Environmentally Preferable Products (EPPs) Procurement Program General Information, Requirements and Guidance*.

The following is a list of OSD EPP Program webpages, fact sheets, and reports that were either created, updated, or posted:

- » Webpage:
 - > Alternative Fuel Vehicles
 - > <u>Commercial Battery Powered Landscape Equipment</u>
 - > <u>Recycle and Buy Recycled! Close the Loop</u>
 - > Added additional information about Sustainable Purchasing
- » Fact Sheet: Post-Consumer Recycled Products on Statewide Contract
- » Report: Environmental Claim verification: Findings and Recommendations to the Massachusetts Operational Services Division

ABOUT OSD

The mission of the Operational Services Division (OSD) is to create and promote dynamic programs and services that anticipate and fulfill our customers' needs. Our operational and oversight activities facilitate and guide the evaluation, acquisition, management, and disposition of goods and services. We strive to deliver a personalized customer experience by creating a climate of communication and cooperation and leveraging innovative business techniques.

Sign up for OSD communications!



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