

REGIONAL EV STRATEGY

Battery-Powered Landscaping Equipment, Electric Rubbish Packers, and Procurement Updates

December 5, 2024



REGIONAL EV STRATEGY



Today's Agenda

1:00-1:05 p.m.	Welcome	Alison Felix, MAPC
1:05-1:25 p.m.	Overview of State Contract for Battery Powered Landscaping Equipment	Agnes Wierzbicki, OSD Sean Corbin, OSD
1:25-1:35 p.m.	Battery-Powered Landscaping Equipment	Cricket Vlass and Timothy Bania, Town of Wellesley
1:35-1:45 p.m.	Bylaw on Use of Landscape Maintenance Equipment	Maggie Peard, Town of Lexington
1:45-2:05 p.m.	Battery-Powered Landscaping Equipment and Electric Rubbish Packer Update	John Nardone, Irina Sidorenko, and John Keeter, City of Cambridge
2:05-2:15 p.m.	Q&A	Emma Zehner, MAPC
2:15-2:25 p.m.	Procurement Update	Marjie Weinberger, MAPC
2:25-2:30 p.m.	Updates and Resources	Emma Zehner, MAPC



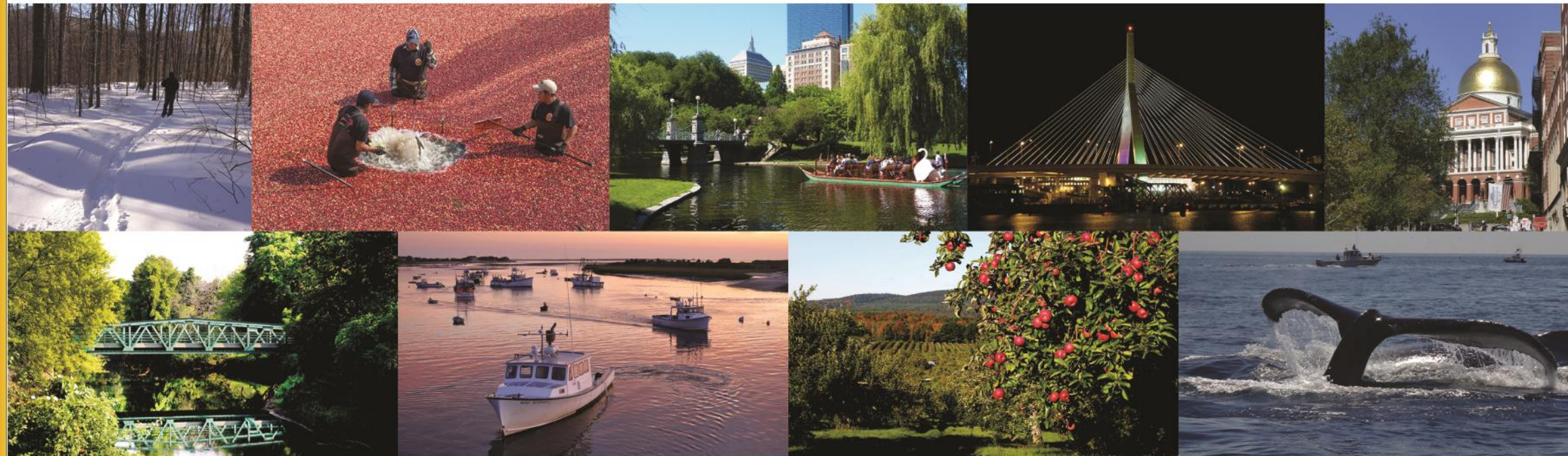
Overview of State Contract for Battery Powered Landscaping Equipment





Battery Powered Landscape Equipment

Electrify the Landscape



Agenda

- Why is BPLE Important
- The Triple Bottom Line
- BPLE Calculator
- Leveraging Grants and Rebates
- Leveraging Statewide Contracts

Why is BPLE Important?

It was estimated that 614,932 tons of carbon dioxide were emitted from lawn and garden equipment in Massachusetts in 2020. This is equivalent to 1.43 billion miles driven in a typical car. (Source: [Lawn Care Goes Electric \(publicinterestnetwork.org\)](https://publicinterestnetwork.org/))

The same study also identified the top 100 counties for carbon dioxide emissions from lawn and garden equipment in 2020. There were two Massachusetts counties within the top 100.

County	Place out of 100	CO2 Emissions	Car Equivalent
Middlesex	28	153,480	33,787
Essex	93	70,771	15,580

The Triple Bottom Line



Environmental

- Decarbonization
- Zero pollutants
- Cleaner air



Human Health

- Quieter
- Smoother
- Cleaner air



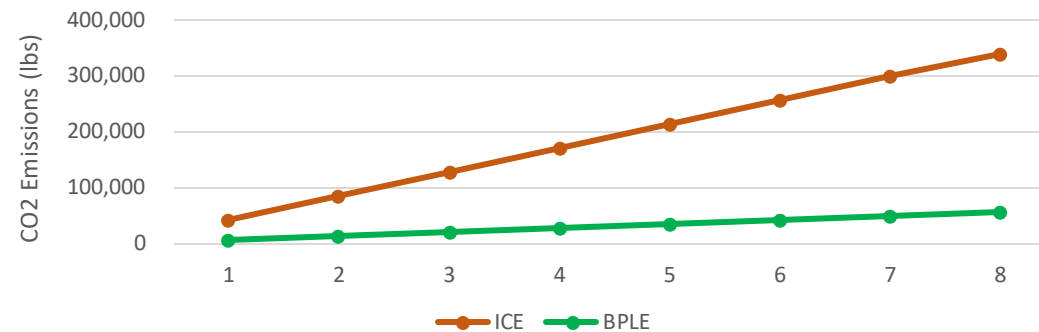
Financial

- Reduced fuel costs
- Reduced maintenance costs

Emissions Benefits

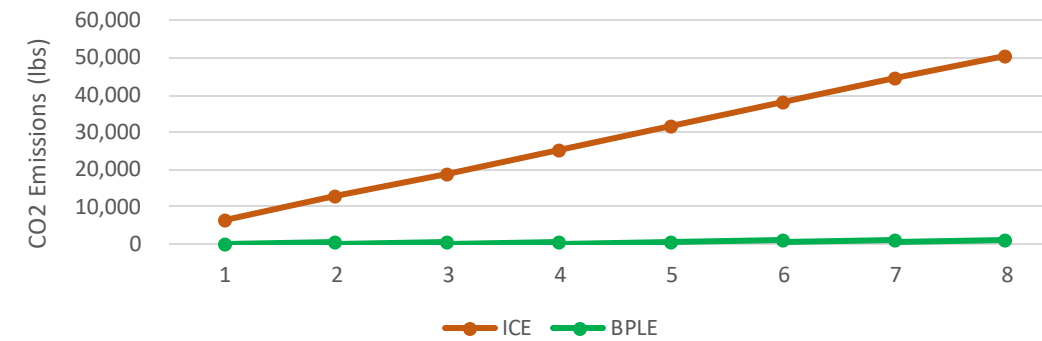
60" Riding Zero-Turn Mower

Cumulative CO2 Emissions: Commercial Gas vs BPLE



20" Chainsaw

Cumulative CO2 Emissions: Commercial Gas vs BPLE



Health Benefits

- Reduced noise and vibration for users -> reduced risk of hearing loss and Hand-Arm Vibration Syndrome
- Lack of direct emissions eliminates harmful fumes and particulate matter for users
- No need to store hazardous chemicals

Financial Benefits

- Reduced maintenance costs
 - No oil changes
 - No replacement of air filters
 - No replacement of fuel filter
 - No gas cans

Equipment	Fuel Cost	Hourly Fuel Cost
Electric 60" Mower	\$0.16/kWh	\$2.82
Gas 60" Mower	\$3.38/gallon	\$6.76

BPLE Savings Calculator

Live on COMMBUYS
website for FAC116 under
"Agency Attachments".
Click Here!

Step 1	Select Equipment	Chainsaw 14"
--------	------------------	------------------------------

Step 2	Select "Yes" for each area to use default values for battery-powered equipment option. Select "No" to input your own values in Column F.
--------	---

Commercial Battery-Powered			
	Default Data	Use Default Data?	Input (if Default not used)
Price of Equipment	\$690.00	Yes	
Mass Save Rebate*	\$30.00	Yes	
Prompt Pay Discount	use drop down ---->		<u>1%</u>
Add-ons	Include total cost of any additional features, such as extra chargers, lights, solar canopy, etc		
Additional Number of Batteries to be Purchased	use drop down ---->		<u>1</u>
Cost per Additional Battery	\$240.00	Yes	
Equipment Specifications			
Battery size (kWh)	0.216	Yes	
Electricity Information			
Electricity cost (\$/per kWh)	\$0.16	Yes	
Hours of Operation			
Hours per day	use drop down ---->		<u>8</u>
Days per month	use drop down ---->		<u>15</u>
Months per year	use drop down ---->		<u>6</u>
Warranty			
Length of warranty (years)	use drop down ---->		<u>3</u>

Don't know kWh but know amp hours (Ah) and Volts (V)? Multiply Ah by V and divide by 1000 to estimate kWh.

Step 3	Select "Yes" for each area to use default values for commercial gasoline equipment option. Select "No" to input your own values in Column P.
--------	---

ICE			
	Default Data	Use Default Data?	Input (if Default not used)
Price of equipment	\$630.00	Yes	
Prompt pay discount (PPD)	use drop down ---->		<u>1%</u>
Add-ons	Include total cost of any additional features, such as extra lights, etc		
Equipment Specifications			
Horsepower	2.4	Yes	
Gallons of gasoline per hour	0	Yes	
Fuel Information			
Price per gallon of gas	\$3.38	Yes	
Hours of Operation			
Hours per day	8.0	Yes	
Days per month	15.0	Yes	
Months per year	6.0	Yes	
Warranty			
Length of warranty (years)	n/a use drop down ---->		<u>3</u>

Don't know your equipment's horsepower but know its engine size, often show as "CC"? To calculate average horsepower, divide the engine size (CC) by 15.5.

Mass Save Rebates

Mass Save also offers rebates for both residential and commercial battery powered landscaping equipment



RETAIL-GRADE BATTERY-POWERED LAWN EQUIPMENT*	
Equipment	Rebate (per unit)
Lawnmower	\$75
Leaf blower	\$30
String Trimmer	\$30
Chainsaw	\$30
*Must be battery-powered and have a battery capacity less than 500-watt hours	

Professional-grade Equipment

Professional-grade equipment is for landscapers, municipal operations, or those that use equipment throughout a full day.

PROFESSIONAL-GRADE BATTERY-POWERED LAWN EQUIPMENT	
Equipment	Rebate (per unit)
Lawnmower*	\$3,500
Leaf blower**	\$100
String Trimmer**	\$100
Chainsaw**	\$100
*Must have a battery capacity more than 7000-watt hours **Must have a battery capacity more than 500-watt hours	





Green Communities Program Funding

- Matching the amounts in the MassSave rebates for Municipalities.
- The next GC Competitive grant is due April 4, 2025, at 5 pm. See the [Program Opportunity Notice](#) in COMMBUYS for full details on community eligibility, limits, and other requirements. The section specific to BPLE projects is on pages 9-10.

Additional Resources

- OSD:
 - [Commercial Battery Powered Equipment Webpage](#)
 - Specific help for Municipalities – contact your [OSD Local Government Enablement Team](#) Member for hands on assistance.
- DOER Green Communities Program
 - Department of Energy Resources' Green Communities Coordinators provides technical assistance for clean energy and sustainability efforts.
- LBE Website
 - [LBE Sustainable Landscaping Page](#)
 - Includes recording from Sept 2022 ride and drive (user testimonies from DCR, Lexington, and Wellesley)
 - BPLE Flyers
- AGZA
 - Training: American Green Zone Alliance Service Pro Certification <https://www.sustainablelandcare.org/>

FAC116: Lawns & Grounds Equipment, Parts and Services



Contract Summary

This contract is for equipment which is intended for the maintenance and care of lawns and grounds areas as well as the parts, repair, and leasing for this equipment.

- **47 Vendors Total – manufacturer and independent dealer representation**
- **Nine Contract Categories**
 - Category 3: Utility Vehicles, Golf Carts, Snowmobiles, and Related Accessories
 - Utility vehicles, ATVs, snowmobiles, golf carts, sprayers, groomers & sweepers
 - Category 8: Commercial Grade Battery Electric Lawn Equipment (26 Vendors)
 - Lawnmowers (including ride on), blowers, trimmers, chainsaws & more
 - Category 9: Equipment Leasing for Categories 1-8

Battery-Powered Equipment includes...

- Category 3: Electrify your fleet with a range of golf carts, shuttles, and utility vehicles
- Category 8: Ride-on and stand-on mowers
- Category 8: Handheld equipment and push mowers



FAC116: Lawns & Grounds Equipment, Parts and Services



- **FAC116 Contract Terms**
 - ✓ Term: May 1, 2021 – April 30, 2027
- **Competitive Pricing and Discounts**
 - ✓ Volume Discounts
 - ✓ Dock Delivery
 - ✓ Prompt Pay Discounts
- **OSD Climate Initiative**
 - ✓ Executive Order 604 – Establishing the Office of Climate Innovation and Resilience Within the Office of the Governor

Specs for Commercial-Grade Equipment

If buying *commercial-grade* battery-powered equipment, consider using [Commercial Grade Battery Powered Landscape Equipment Specifications](#) developed by OSD, including:

- Equipment certification
- Safety
- Commercial-grade power (e.g. 12 HP for zero-turn mowers, 465 CFM for blowers)
- Low-noise
- Light-weight backpack batteries
- Minimum battery run times (e.g., 4+ hours for large mowers, 1.5+ hours for smaller mowers, 30+ minutes for handhelds)
- Those with *third-party certifications*



Contract User Guide


How to Learn More About the Contract?

The Contract User Guide is the buying guide for the contract that reviews:

- Contract Coverage
- How to Purchase
- Contract Exclusions
- Pricing and Quote Requirements
- Link to [commercial-grade specifications](#)
- Awarded Contractor Information – including links to their information in COMMBUYS

For more information:

- OSD Helpdesk - OSDHelpDesk@mass.gov or call 1-888-627-8283 or 617-720-3197
- OSD Contract Manager sean.corbin2@mass.gov



Contract User Guide for FAC116

FAC116: Lawns and Grounds Equipment, Parts and Services

UPDATED: July 26, 2023

Contract #:	FAC116
MMARS MA #:	FAC116*
Initial Contract Term:	May 1, 2021 – April 30, 2027
Maximum End Date:	April 30, 2027
Current Contract Term:	May 1, 2021 – April 30, 2027
Contract Manager:	Michael Barry, Phone: 617-720-3182, michael.barry3@mass.gov
This Contract Contains:	Environmentally Preferable Products MBE/MWBE/WBE
UNSPSC Codes:	See Appendix A for a list of UNSPSC Codes
Updated:	Vendor contract manager listing

*The asterisk is required when referencing the contract in the Massachusetts Management Accounting Reporting System (MMARS).

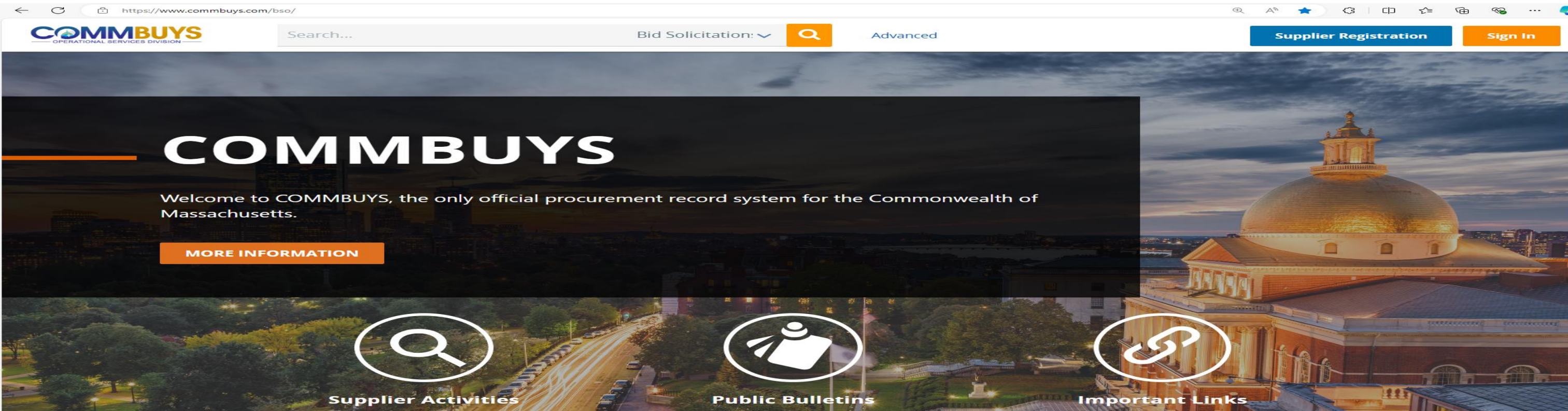
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- [Appendix A: List of UNSPSC Codes](#)
- [Appendix B: Category Descriptions](#)

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FAC116 COMMBUYS Search



Statewide Contract Purchasing

[Statewide Contract Reference Sheet](#)
[Contract User Guides](#) ←
[New Statewide Contract Categories](#)
[Statewide Contract Index](#)
[Tradespersons Contract Index](#)
[Procurement Schedule](#)
[Procured Ratings](#)
[COVID-19 Resources](#)

Environmentally Preferable Products (EPP) Procurement Program

[EPP Procurement Program](#)
[EPP Products and Services Guide](#)

Local Government Resources

[Posting a Bid Notice – Quick Guide](#)
[Local Government Resources](#)

Buyer Resources

[Buyer Training Overview](#)
[Job Aids for Buyers](#)
[Buyer Webcast Training](#)
[COMMBUYS CLM Overview](#)
[G2B PunchOut Purchasing](#)

Vendor Resources

[Vendor Training Overview](#)
[Job Aids for Vendors](#)
[Vendor Webcast Training](#)
[Vendor Report Management FAQs](#)
[How to Become a Statewide Contractor](#)

OSD Help Desk hours 8am – 5pm
ET Monday – Friday
OSDHelpDesk@mass.gov | 1-888-
627-8283 or 617-720-3197

Contract User Guide

Contract User Guides by Categories

[CLT - Clothing, Personal Care Products, Bedding](#)

[ENE - Energy and Alternative Fuels](#)

[FAC - Facilities General](#)

[FIN - Financial Services](#)

[GRO - Food and Food Service Supplies](#)

[ITE - IT Equipment and Services](#)

[ITS - IT Software and Services](#)

[ITT - Telecommunications and Networking](#)

[LND - Facility Landscaping](#)

[MED - Health and Medical](#)

[MRO - Facility Maintenance, Repair, and Operations](#)

[OFF - Office Supplies](#)

[PRF - Professional Services](#)

[PSE - Public Safety and Security](#)

[SFC - Sustainable Facilities Consulting Services](#)

[TRD - Tradespersons](#)

[VEH - Vehicle Acquisition and Maintenance](#)

[VFM - Vehicle Fleet Management](#)

[WMR - Waste Management and Recycling](#)



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Contract Manager:	Michael Barry, Phone: 617-720-3152, michael.barry3@mass.gov	
This Contract Contains:	Environmentally Preferable Products	
UNSPSC Codes:	See Appendix A for a list of UNSPSC Codes	
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Facilities Landscaping and Waste Reduction

The Category Team for Facilities Landscaping and Waste Reduction Statewide Contract Categories.

Category Grouping

[LND - Facility Landscaping](#)



[WMR - Waste Management and Recycling](#)

CONTACT

OSD Help Desk

 Online

OSDHelpDesk@mass.gov

Facility Landscaping - Contract User Guides

Contracts related to the procurement of services and equipment for exterior maintenance of facilities (i.e., lawn care, playgrounds, road salt and snow removal for parking lots and roads).



[FAC116](#) - Lawns and Grounds Equipment, Parts and Services Statewide Contract (Updated: 05/15/2024, replaced FAC88)

[FAC117](#) - Integrated Pest Management Statewide Contract (Updated: 09/16/2024)

[FAC120](#) - Landscaping Services, Snow Removal, Tree Services and Related Services Statewide Contract (Updated: 08/27/2024, replaced FAC103)

[FAC122](#) - Landscaping Products, Parks and Recreation Equipment and Related Products, Supplies and Services Statewide Contract (Updated: 04/25/2024, replaced FAC104)

[VEH119](#) - Road Salt Statewide Contract (Updated: 09/19/2024, replaced VEH107)

As contracts are rebid, all contracts in the Facility Landscaping Category will be updated to include the LND prefix.

CONTACT

OSD Help Desk

 Online

OSDHelpDesk@mass.gov

 Phone

[\(888\) 627-8283](tel:(888)627-8283)

Open M-F 8am-5pm

[more contact info](#) >

Contract User Guide



Contract User Guide for FAC116

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UNSPSC Codes:	See Appendix A for a list of UNSPSC Codes	
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Contract User Guide

FAC116: Lawns and Grounds Equipment, Parts and Services

UPDATED: May 15, 2024

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Maximum End Date:	April 30, 2027
Current Contract Term:	May 1, 2021 – April 30, 2027
Contract Manager:	Sean Corbin, Phone: 617-720-3105, sean.corbin2@mass.gov
This Contract Contains:	Environmentally Preferable Products MBE/MWBE/WBE
UNSPSC Codes:	See Appendix A for a list of UNSPSC Codes
Updated:	Vendor listing and OSD Contract Manager
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- **OSD:** www.mass.gov/osd
- **COMMBUYS:** www.commbuys.com
- **OSD Help Desk:** 1-888-627-8283 or OSDHelpDesk@mass.gov
- **OSD Blog:** www.mass.gov/collections/procurement-insights

Battery Powered Landscaping Equipment in Wellesley







BATTERY ELECTRIC EQUIPMENT

Green
WELLESLEY

EGO

Peddling Away Litter
Keeping Wellesley Sustainable

















Lexington Bylaw on Use of Landscape Maintenance Equipment



Lexington's Bylaw on the Use of Landscape Maintenance Equipment



Bylaw on the Use of Landscape Maintenance Equipment



Sets new allowed hours for the use of landscape maintenance equipment

- Residents
 - Weekdays, 7 am to 8 pm
 - Weekends and legal holidays, 9 am to 5 pm
- Landscapers
 - Weekdays, 7 am to 6 pm
 - Saturday 9 am to 5 pm

Seasonal restrictions are imposed on gas-powered leaf blowers

Gas-powered leaf blower use by any user is limited to the following designated fall and spring cleanup periods:

- **Spring:** March 15 to May 31
- **Fall:** September 15 to December 30

The use of gas-powered leaf blowers will be phased out

- Effective March 15, 2025, the use of gas-powered leaf blowers by **commercial landscapers** will not be allowed. An exemption allows the continued use of wheeled leaf blowers powered by four-stroke engines on lots larger than 1 acre.
- **Residents** will be allowed to use gas-powered leaf blowers on their own property until March 15, 2026.

Enforcement

- The Police Department is the enforcement authority
- Education-first approach
- Fine schedule for repeat offenders (\$50, \$100, \$200)



Noise Bylaw Restrictions

When the use of landscape equipment is allowed →

- Landscapers**
 - Weekdays, 7 am - 5 pm
 - Saturdays 9 am - 5 pm
- Residents**
 - Weekdays, 7 am - 5 pm
 - Weekends, legal holidays, 9 am - 5 pm

When the use of gas-powered leaf blowers is allowed* →

- For all users:**
 - Spring: March 15 - May 31
 - Fall: September 15 - December 30

VIOLATIONS ARE SUBJECT TO FINES

*Use of gas-powered leaf blowers will not be allowed on all:
• March 15, 2022 for COMMERCIAL LANDSCAPERS
• March 15, 2022 for RESIDENTS

For more, information visit:
LexingtonMA.gov/LandscapeNoise



Reglamento Sobre Restricciones Del Ruido

Cuando Se Permite El Uso De Equipo Para Mantenimiento De Jardín →

- Jardineros**
 - Lunes a Viernes, 7 am - 5 pm
 - Sábado, 9 am - 5 pm
- Residentes**
 - Lunes a Viernes, 7 am - 5 pm
 - Fines De Semana, Días Festivos, 9 am - 5 pm

Cuando Se Permite El Uso De Sopladores De Gas Para Limpieza De Hojas (Blowers) →

- Para Todos Los Usuarios:**
 - Primavera: 15 De Marzo - 31 De Mayo
 - Otoño: 15 De Septiembre - 30 De Diciembre

LOS QUE INFRINGEN LA LEY SERÁN MULTADOS

El Uso De Sopladores No Será Permitido A Partir De:
15 De Marzo De 2023 Para Empresas
De Limpieza De Jardín
15 De Marzo De 2024 Para Residentes

Para Más Información, Visita:
LexingtonMA.gov/LandscapeNoise

Supporting Landscapers

- Lexington purchased 100 handheld electric blowers, 100 spare batteries, and 6 backpack blowers to distribute to local landscapers
 - \$75,000 state earmark
- Partnered with Wellesley, AGZA, and Quiet Communities to host a workshop and equipment demo for commercial landscapers (spring 2024)
- More support needed

Challenges

- Upfront investment to landscapers
- Landscapers need to change business operations (charging, swapping out equipment)
- Performance of equipment (real or perceived?)
- Supply chain
- Limited capacity for enforcement
 - Hiring part-time Code Enforcement Officer

Battery Powered Landscaping Equipment and Electric Rubbish Packer Updates from Cambridge



CAMBRIDGE'S EV PACKERS





2035 Target

100% zero emission Solid Waste Collection vehicles by June 30, 2035

Daily, DPW operates 13 refuse trucks and 5 serve as spares



On Track to Reach Target

2 BEV delivered

1 BEV awaiting delivery

1 BEV awaiting order



Why Mack LR?

NYC's Annual Fleet Show


Attended in 2021 and 2022





EV CHARGING

Mack LR's 50KW DC only
requirement

An orange SEA Electric Rack Body Truck is parked in a lot, connected to a white electric vehicle charging station. The truck has a black metal rack body and is equipped with emergency lights on its roof. The background shows a brick building and trees with autumn foliage under a cloudy sky.

SEA Electric Rack Body Truck GVWR 19,500 lbs

GRANTS AND FUNDING SOURCES

	rebate/grant type	rebate amount	net cost
EV Rubbish Truck #1	MoreEV trucks	\$ 99,000	\$ 613,167
EV Rubbish Truck #2	MoreEV trucks	\$ 99,000	\$ 613,167
EV Rubbish Truck #3	DERA	\$ 305,625	\$ 398,870
EV Rubbish Truck #4	VW Open solicitation	\$ 416,991	
EV Rack Body Truck	MoreEV trucks	\$ 49,500	\$ 152,500

View
Clean Fleet
Policy [here](#)

View
Clean Fleet
Annual Report
[here](#)



THANK YOU!

Cambridge DPW

Q&A



Procurement Update



Amendment to Chapter 30B of the General Laws

A governmental body may procure electric vehicles, including electric school buses, and the installation of electric vehicle supply equipment separately or in a single procurement.

An Act Promoting a Clean Energy Grid, Advancing Equity, and Protecting Ratepayers (2024 Climate Bill)

Section 34

<https://malegislature.gov/Bills/193/S2967>

Signed into law on November 20, 2024



Updates and Resources



NEW OPPORTUNITY

On-Street EV Charging Solutions Program for MA Municipalities

ABOUT THE PROGRAM

The Program aims to promote wide-scale EV adoption across the Commonwealth by increasing access to curbside EV charging infrastructure in MA communities, with an emphasis on Low Income/Disadvantaged Communities (LIDAC). The Program will also pilot innovative On-Street Charging technologies, models, and ownership structures.



THE OFFER

- 15 municipalities will receive **EV chargers and infrastructure** at approximately three on-street parking locations, **at no cost**.
- 25 municipalities will receive **EV charging planning support** and feasibility studies, also **at no cost**.

MassCEC is actively *seeking municipalities* who meet the following criteria to participate in this exciting program:

- High percentage of renters
- Available on-street parking near multifamily residential housing
- Contains LIDAC communities

If interested in learning more, please **send an email** to EVcharging@comelectrical.com to schedule an introductory video call.



2024 EPA Clean School Bus Rebate Program

- This funding round will provide at least \$965M in rebates awarded to applicants nationwide.
- Applicants can request up to \$325,000 per bus for up to 50 buses per application
- Eligible costs: bus and infrastructure costs, eligible training costs for bus drivers, electricians, and others working with the new buses or infrastructure.
- Eligible Applicants: Public school districts, Tribal applicants, and relevant third-party nonprofit school transportation associations. Preference will be given to communities meeting at least one of the following prioritization criteria: high-need school districts and low-income areas, rural school districts, Bureau of Indian Education-funded school districts, school districts that receive basic support payments for children who reside on Indian land
- **Application Deadline: January 9, 2025, at 4:00pm (ET)**
- Application Details: <https://www.epa.gov/cleanschoolbus/clean-school-bus-program-rebates#overview>



Source: <https://www.epa.gov/cleanschoolbus>

Climate Law

- Signed into law by Governor Maura Healey on November 21!
- Includes a range of exciting EV updates:
 - Right to Charge Legislation: further removes EV charger installation restrictions for residents who own parcels within condominiums, homeowner associations, and historic districts, and authorizes condo boards to install EV chargers on community parcels.
 - Utility Pole-Mounted EV Charging: makes pole-mounted charger installation easier on streets and in parking lots
 - Plans for Statewide Charging Network: assigns EVICC responsibilities to identify sites for a statewide network of fast charging hubs along Massachusetts highways and major roadways, as well as forecasting EV charging demand and determining its impact on the electric distribution grid over the next ten years.



Source: Business Insider, [Pole-Mounted EV Chargers Can Get More People on Board With Driving EVs - Business Insider](#)



Climate Law (continued)

- MOR-EV Incentive Program Expansion: expands through 2027 (\$3,500 to \$6,000 rebate for the purchase of qualifying new or used electric vehicles).
- Procurement Updates: makes it easier for cities and towns to procure EVs—including electric school buses—and EV charging equipment
- Education: requires state guidance on public health, safety, and environmental impacts of electric vehicle and electric battery storage

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Wrap Up & Next Steps

Next Meeting February - date and agenda TBD

If you aren't already on our invite list, please email ezehner@mapc.org to be added for future meetings.



REGIONAL EV STRATEGY

