Commercial Battery-Powered Electric Lawn and Garden Equipment Calculator

Background

Statewide contract FAC88: Lawns & Grounds, Equipment, Parts and Services includes environmentally prefererable products under Category 13: Commercial Grade Battery-Powered Electric Lawn Equipment. As Massachusetts advances the use of clean, renewable sources for electricity generation, below are some potential benefits associated with battery-powered electric lawn and garden equipment compared to gasoline-powered

Environmental benefits:

- Helping the Commonwealth meet its environmental goals in climate change, clean air, and toxics use reduction
- Reduction in toxic exposure and criteria air pollutants (particulate matter, sulfur dioxide, carbon monoxide)

Reduction in greenhouse gas emissions

- Reduction in hazardous waste and potential spills
- Reduction in noise pollution and nuisance complaints
- Reduction in wildlife and habitat exposure to toxic emissions, excessive noise, and ground-sourced particulates

Health benefits:

- Reduction in worker exposures to toxic emissions, excessive noise, excessive vibrations, and ground-sourced particulates
- Reduction in public exposure to toxic emissions, excessive noise, and ground-sourced particulates

Cost benefits:

- Avoided fuel costs
- Lower maintenance costs

The possibility for extended work hour options and holiday operation due to lower noise levels

Battery-powered electric equipment on FAC88 has a minimum 2-year warranty. This calculator provides economic and environmental models for eligible entities to better understand these environmentally preferable purchasing options and to calculate the potential costs and benefits.

Calculator Instructions

To use the calculator (environmental and economic models) input applicable cost, equipment, and operational data in the red text for the batterypowered electric equipment (left side) and the gasoline equipment (right side). The graphs and data results will update automatically based on this user input. This tool is provided to generate estimates only, the Commonwealth makes no guarantees about equipment savings or years of equipment performance .

More Information & Links FAC88 Contract User Guide https://www.mass.gov/doc/fac88/download

Environmentally Preferable Products Program Website http://www.mass.gov/epp

Leading by Example Program Website https://www.mass.gov/leading-by-example-pr

Contact: Julia Wolfe, Director of Environmental Purchasing (OSD) for more information: 617-502-8836

This calculator was developed in collaboration with Quiet Communities



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