

Town of Concord EV Program

Massachusetts Municipal Association Annual Meeting

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Concord Public Works Fleet Evolution



Concord Road to Electrification

How we got here



2007

CSEC

*Formation of
Comprehensive
Sustainable
Energy
Committee*

2011

**Sustainability
Principles**

*Formally adopted
by Selectboard*

2013

**Green
Communities**

*With support of
Concord
Municipal Light
Plant*

2017

**Sustainability
Road Map**

*To reduce GHG emissions
80% by 2050

Creation of
Sustainability Division*

2020

**Climate Action
and Resilience
Plan**

Concord Fleet Electrification

How we got here



2015

CSEC Annual
Report

2016

1st Electric
School Bus

2020

Sustainable Fleet
Policy

2022

Fleet
Electrification
Study

2022

Electric Vehicle
Charging
Infrastructure
Study



Concord Fleet Electrification Study

- Reviewed 177 vehicles across all departments
- 34% of the current fleet has EV replacement (Light Duty – Cars, vans, small pickups).
- 36% have EV equivalents, but not practical or feasible due to cost or operational need (Medium/Heavy Duty – $\frac{3}{4}$ -1 Ton trucks).
- 17% have no EV equivalent (Large Trucks heavy equipment).



Concord Electric Vehicle Charging Infrastructure Study

- Three (3) large municipal sites will support a majority of the vehicle electrification over the next twenty years.
- Based on the energy demands taken from the “Potential Electrification” scenario in the Fleet Electrification report.
- 52 total ports estimated to cost approx. \$1.7-1.9 million through 2035
- To support the charging of 124 fleet vehicles located at 11 sites.



310 CMR 7.41 Large Entity Reporting Requirement

- PROPOSED LEGISLATION
- Requires certain owners of medium- and heavy-duty (MHD) vehicle fleets to submit a one-time report to MassDEP 6 months after the regulation is finalized.
- MassDEP Required to gather information about fleet vehicles in the Commonwealth in order to develop infrastructure to support the developing MHD EV market.



Town of Concord Useful Resources

- Climate Action and Resilience Plan:
<https://concordma.gov/DocumentCenter/View/25318/Sustainable-Concord-Climate-Action-and-Resilience-Plan-2020?bidId=>
- Sustainable Fleet Policy:
<https://concordma.gov/DocumentCenter/View/27386/APP-65---Sustainable-Fleet-Policy-PDF?bidId=>
- Fleet Electrification Study:
https://concordma.gov/DocumentCenter/View/36768/Concord-Fleet-Electrification-Study_Final?bidId=
- Electric Vehicle Charging Infrastructure Study:
<https://concordma.gov/DocumentCenter/View/36769/Concord-Electric-Vehicle-Charging-Infrastructure-Study-Final?bidId=>