

Town of Medfield Zero-Emission Vehicle First Policy

This model policy was prepared to assist municipalities in developing a zero-emission-first vehicle policy. This model policy is intended for illustration purposes. Communities are free to utilize the format provided.

Town of Medfield/ Medfield School District ZERO EMISSION FIRST VEHICLE POLICY	
Effective Date	Feb. 13, 2025
Revisions	
Select Board	
Approval Date	 
School	
Superintendent	
Approval Date	

1) DEFINITIONS

- a) Acquisition** - In the context of this guideline, acquisition refers to the purchase or lease of on-road vehicles (whether used or new) by and for the (city/town/school district) either to replace an existing fleet vehicle or to expand a fleet.
- b) Alternative fuel vehicles (AFVs)** - Dedicated, flexible fuel, or dual-fuel vehicles designed to operate on at least one alternative fuel (such as electricity, biodiesel, propane, or natural gas) to reduce carbon emissions.
- c) Battery electric vehicle (BEV)** – An electric vehicle that draws propulsion energy solely from an on-board electrical energy storage device during operation that is charged from an external source of electricity.
- d) Electric vehicle supply equipment (EVSE) or electric vehicle charging station** – An electric component assembly or cluster of component assemblies designed specifically to charge batteries within electric vehicles by permitting the transfer of electric energy to a battery or other storage device in an electric vehicle.
- e) Exempt vehicles** - Vehicles that are exempt from the Green Communities Fuel Efficient Vehicle Policy include off-road vehicles, motorcycles and heavy-duty vehicles with a manufacturer's gross vehicle weight rating (GVWR) of more than 8,500 pounds. Examples include fire engines, ambulances, and some public works vehicles.
- f) Fleet vehicles** - In the context of this guideline, refers to on road vehicle assets owned or leased and operated by the (city/town/school district).

g) **Fuel-cell electric vehicle (FCEV or FCV)** - An electric vehicle that draws propulsion energy solely from an on-board energy storage device during operation, where energy stored as hydrogen is converted to electricity by a fuel cell, that is recharged from an external source of hydrogen.

h) **Fuel Efficient Vehicle (FEV) Policy** - Issued by the Department of Energy Resources (DOER) to fulfill the requirements of the Green Communities Act. The FEV Policy requires designated Green Communities to acquire fuel-efficient vehicles; applies to all light-duty vehicle acquisitions with a gross vehicle weight rating (GVWR) of 8,500 pounds or less.

i) **Gross vehicle weight rating (GVWR)** - The maximum safe operating weight of a vehicle, as specified by the manufacturer, including passenger and cargo loads.

j) **Heavy-duty vehicle** – A vehicle with a manufacturer's gross vehicle weight rating (GVWR) of more than 8,500 pounds.

k) **Hybrid electric vehicle (HEV)** - Powered by an internal combustion engine and a small electric motor that uses energy stored in a battery. Under light load, for instance during initial acceleration, only electricity is consumed. The vehicle is typically fueled with gasoline to operate the internal combustion engine, and the battery is charged through the engine and regenerative braking, not by plugging in.

l) **Light-duty vehicle** – A vehicle with a GVWR of less than 8,500 pounds.

m) **Plug-in hybrid electric vehicle (PHEV)** – An electric vehicle with an on-board electrical energy storage device that can be recharged from an external source of electricity and that also has the capability to run on another fuel.

n) **Telematics** - A system that is installed in a vehicle that records and transmits information about the vehicle such as the current odometer, maintenance needs, and fuel/electricity consumption.

o) **Zero emission vehicle (ZEV)** – Zero emission vehicles include battery electric vehicles, plug-in hybrid electric vehicles, and fuel-cell electric vehicles; if the most recent definition of ZEVs per the Massachusetts Zero Emission Vehicle Commission diverges from this scope, the Commission definition shall take precedence.

PURPOSE

The purpose of the Zero-Emission First Vehicle Policy is to set standards and guidelines for the purchase, operation, and maintenance of the (city/town/school district) fleet vehicles that will advance the economic, energy, and climate sustainability of municipal operations by achieving long-term reductions in energy costs, energy consumption, and greenhouse gas (GHG) emissions. The primary objectives of this policy are to:

- Accelerate the adoption of emissions-reduction technologies and the transition of the fleet to all electric or other environmentally advantageous vehicles
- Minimize the long-term environmental and financial impacts of fleet vehicles

- Optimize the composition of the fleet to achieve maximum fuel efficiency
- Advance the installation of electric charging infrastructure across municipal facilities
- Prioritize the utilization of grants, rebates, and incentives to support the acquisition of vehicles and technologies that will improve efficiency and reduce GHG emissions.

This policy shall not require a department to take any action which conflicts with local, state, or federal requirements nor mandate the procurement of products that do not perform adequately for their intended use, exclude adequate purchasing competition, or require the purchase of vehicles that are not commercially available or practicable.

APPLICABILITY

This policy applies to all divisions and departments of the (city/town/school district). It applies to road-worthy passenger vehicles, pick up and utility trucks, and SUVs. It does not apply to specialized equipment or off-road vehicles.

GUIDELINES VEHICLE PROCUREMENT

The Town of Medfield has developed a long-range vehicle plan to support reducing carbon emissions associated with town vehicles. This vehicle plan includes additional guidance regarding criteria to evaluate as vehicles come up for replacement. This guidance and the long-range vehicle plan complement the Electric First Procurement Policy outlined below. Additionally, this vehicle plan as well as the Electric First Procurement Policy will be reviewed annually by MEC to ensure that the policy and criteria remain current.

Electric-first procurement

Vehicle procurement should be prioritized as follows:

1. Battery-electric vehicle (BEV)
2. Plug-in hybrid vehicle (PHEV)
3. Hybrid electric vehicle (HEV) or other alternative fuel vehicle (AFV)
4. Standard vehicle operated by an internal combustion engine fueled by fossil fuels

The fleet policy is electric-first, meaning that electric vehicles shall be prioritized when the (city/town/school district) purchases or leases light-duty vehicles for its operations, followed by plug-in hybrid vehicles, then hybrid electric or other alternative fuel vehicle.

Fuel-efficient requirements for standard vehicles

If it is determined that a ZEV does not meet operational needs, the purchased or leased vehicle must be the most fuel-efficient class, drive train, and model available that will fulfill the intended municipal function. When determining the most fuel-efficient vehicle for a given class, the municipality will utilize the fuel efficiency limits contained in the most recent guidance for the Fuel-Efficient Vehicle Policy established by DOER's Green Communities Division.

These limits are based on the most recently published U.S. Environmental Protection Agency combined city and highway MPG ratings (see www.fueleconomy.gov). The EPA maintains a database on vehicle fuel efficiency that is updated throughout the year as new models are released.

I. Inventory

If the (city/town/school district) is utilizing MEI and maintains the full municipal fleet within the database, they have met this criterion for the ZEV policy. Otherwise, the (city/town/school district) will maintain an annual vehicle inventory for ALL vehicles and a plan for replacing any vehicles with vehicles that adhere to the ZEV hierarchy establish by this policy. The (city/town/school district) will review on an annual basis the Vehicle Inventory, along with this policy to plan for new acquisitions as part of planning for the new fiscal year budget.

The following information shall be included in a vehicle inventory list and said list shall be updated on an annual basis and provided to the Green Communities Division:

Model	Make	Model Year	Year/month Purchased	Vehicle Fuel Source	Drive System: 2 WD, 4WD or AWD	> 8500 pounds ? (Y or N)	Exempt or non- exempt	MPG Rating	Vehicle Function

II. Zero-Emission First Replacement Plan

All vehicles shall be replaced with following the electric-first hierarchy as indicated by this policy. Vehicles shall be replaced when they are no longer operable and will not be recycled from one municipal department to another unless the recycled replacement is more efficient than the vehicle it is replacing. In addition, when considering vehicle replacement, the function of the vehicle will be reviewed for potential replacement with a more fuel-efficient vehicle, including a zero-emission non-exempt vehicle.

III. Questions / Enforcement

All other inquiries should be directed to the department/division responsible for fleet management and/or fleet procurement. This policy is enforced by the Chief Administrative Officer and/or his/her designee(s).