



GREEN COMMUNITIES DESIGNATION Progress To Date and the Fuel Efficient Vehicle Policy

Tuesday, June 1, 2021



PROGRAM OVERVIEW

Green Communities Program Designation Criteria

CRITERIA 1

As-of-right Siting

Awaiting DOER Approval

CRITERIA 2

Expedited Permitting

Awaiting DOER Approval

CRITERIA 3

Energy Reduction Plan

In Progress

CRITERIA 4

Fuel-efficient Vehicles

In Progress

CRITERIA 5

Stretch Code Adoption

Effective April 1, 2021

CRITERIA 1

As-of-right Siting

Criterion 1 is met by a municipality passing zoning in designated locations for the as-of-right siting of renewable or alternative energy generating facilities, research and development facilities, or manufacturing facilities.

CRITERIA 2

Expedited Permitting

Criterion 2 is met by a municipality adopting an expedited application and permitting of one year at most, under which facilities interested in locating their facility in a designated renewable zone may be sited within the municipality.

CRITERIA 3

Energy Reduction Plan

To demonstrate compliance with Criterion 3, municipalities must:

- Establish an energy use baseline inventory for municipal buildings and facilities (which can include schools, water, wastewater treatment plants and pumping stations, and open space), street and traffic lighting, and vehicles; and
- Adopt an Energy Reduction Plan (ERP) demonstrating a reduction of 20 percent of energy use after five years of implementation.

CRITERIA 4

Fuel-efficient Vehicles

Criterion 4 requires all departments within a Green Community to purchase fuel-efficient vehicles for municipal use, whenever such vehicles are commercially available and practicable.

CRITERIA 5

Stretch Code Adoption

Criterion 5 requires that municipalities minimize the life-cycle cost of all newly constructed homes and buildings. DOER recommends communities do this by adopting the Stretch Code (780 CMR 115.AA).



CRITERION 4

The Fuel Efficient Vehicle Policy and Vehicle Inventory

FUEL EFFICIENT VEHICLE POLICY

Local governments and school districts must adopt a policy that requires all departments within a Green Community to purchase fuel-efficient vehicles for municipal use, whenever such vehicles are **commercially available and practicable**.

REPLACEMENT PLAN

A plan for replacing non-exempt vehicles with vehicles that meet the fuel efficiency ratings below must also be developed and maintained.

VEHICLE INVENTORY

Criterion 4 requires municipalities to develop and maintain a vehicle inventory for all four-wheeled vehicles, both exempt and non-exempt.

EXEMPT

All **heavy duty vehicles** (GVWR > 8,500 lbs.), such as:

- Fire engines
- Ambulances
- Large DPW vehicles

All **emergency response** police cruisers.

Off-road vehicles and **motorcycles** (not included in the inventory)

NON-EXEMPT

All other municipal vehicles, including:

- **Admin vehicles** for Police & Fire Depts.
- Emergency vehicles **under 8,500 lbs.** for which fuel efficient models are commercially available
- **Sedans** and **light duty trucks** used by schools and other municipal departments

The definition of “fuel efficient” is not static, but changes over time to reflect advances in the market and technologies, in accordance with DOER/EPA guidance.

Based on 2020 EPA data, vehicles are to have a combined city and highway MPG no less than the following:

- 2 wheel drive car: 30 MPG
- 4 wheel drive car: 29 MPG
- 2 wheel drive van: 22 MPG
- 4 wheel drive van: 20 MPG
- 2 wheel drive pick-up truck: 21 MPG
- 4 wheel drive pick-up truck: 18 MPG
- 2 wheel drive SUV: 24 MPG
- 4 wheel drive SUV: 21 MPG

Hybrid or electric vehicles in these vehicle classes will meet these criteria. So can some fuel efficient gasoline engine vehicles

Many vehicles that meet the above criteria can be found on statewide contract VEH98

What the policy means in practice

EXISTING VEHICLES

No immediate changes. Vehicles cannot be transferred to other departments, unless the replacement vehicle is **more efficient** than the vehicle being retired.

NEW VEHICLE PURCHASES OR REPLACEMENTS

For **exempt** vehicle types, purchasing practices continue as usual. Town commits to considering fuel efficient options as they become commercially available and practicable for their departmental needs.

For **non-exempt** vehicle types, Departments must select new or replacement models with combined MPG ratings that meet or exceed the fuel efficiency definition for that vehicle type as provided by DOER.

Reading's Vehicle Inventory

153 vehicles in total (41 RMLD / 112 Town)

128 vehicles are **exempt** from the fuel efficient vehicle policy.
(25 RMLD / 103 Town)

ALL police cruisers
ALL heavy duty vehicles

25 vehicles would be subject to the policy when replaced in future years.

*16 RMLD vehicles**
6 DPW vehicles
2 school vehicles
1 animal control vehicle

Of those 25 vehicles, **16 vehicles** are already in compliance with the fuel efficient vehicle policy MPG standards.

**Subject to RMLD's separately adopted vehicle policy that exceeds DOER's minimum requirements.*

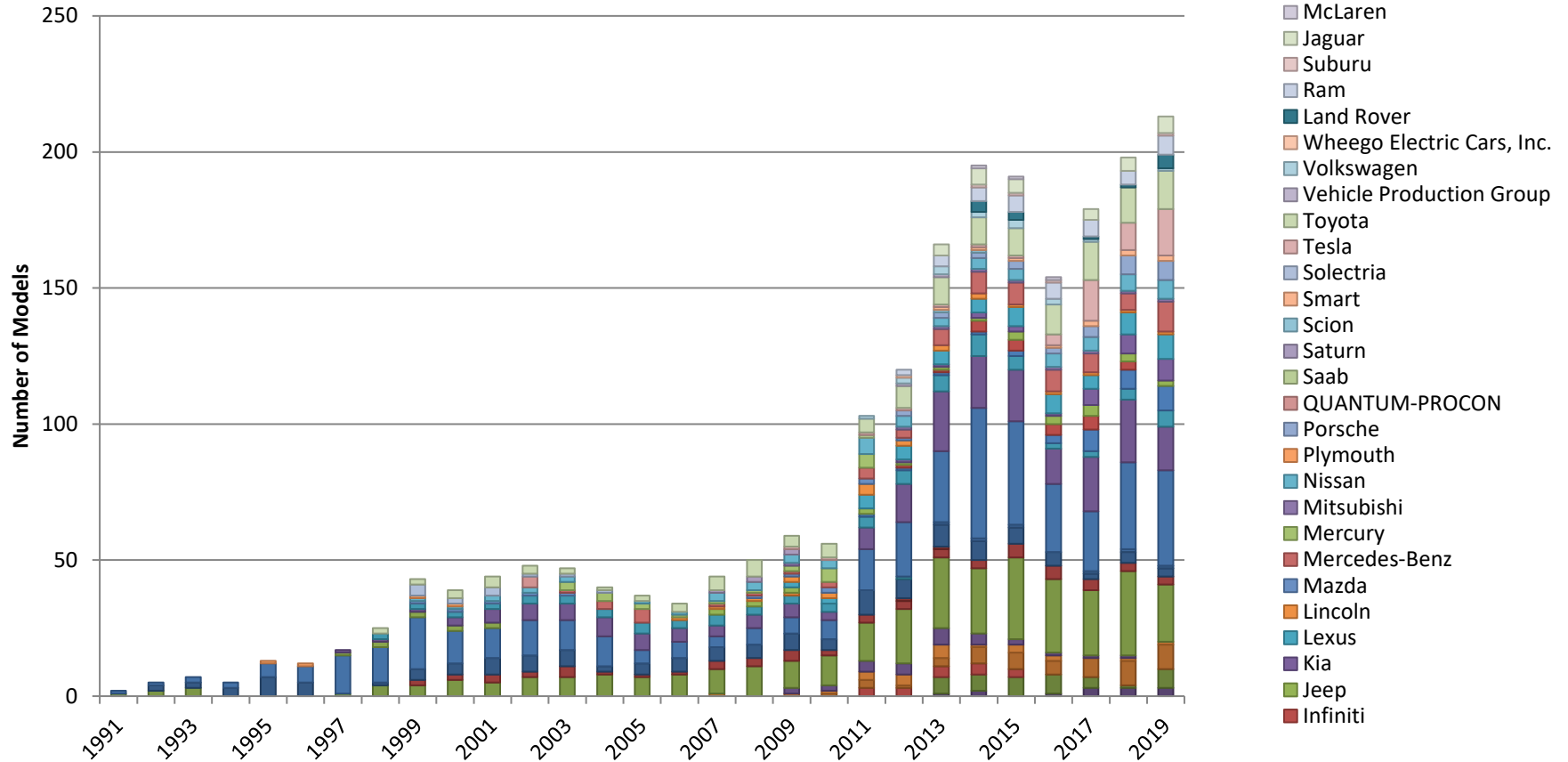
#	VIN #	Plate #	Model	Make	Model Year	Year/Month Purchased	Drive System (2WD, 4WD or AWD)	Weight Class (>8,500 pound)	Exempt or Non-Exem	MPG	DOER Policy MPC	Vehicle Function
NOT EXEMPT FROM POLICY												
1	NMOLS7CN1DT162938	M91238	TRANSIT VAN (animal control)	FORD	2013			5,005	NE	23	20-22	ANIMAL CONTROL
28	1FAFP53U46A191013	M60	TAURUS	FORD	2006	2006	2WD		NE	20	30	DPW - Maintenance/Cemetery
36	1FMCU59H18KE45687	M79946	ESCAPE	FORD	2008	2008	AWD		NE	24	21	DPW - Maintenance
77	1FMCU9G93HUD85709	M98626	ESCAPE	FORD	2017	2017	AWD	4,840	NE	24	21	DPW - Maintenance
66	1FMCU9G9XGUA55323	M95750	ESCAPE	FORD	2016	2016	AWD	4,840	NE	23	21	DPW - Maintenance
44	1FMJU1G57BEF48966	M87814	EXPEDITION	FORD	2011	2011	AWD		NE	15	21	DPW - Maintenance/Surveyor (CIP '23)
81	1GNEVLKW4KJ137490	M1473A	TRAVERSE	CHEVROLET	2019	2019	AWD	6,173	NE	20	21	DPW - Maintenance/Engineering
109	1FMCU9GD7KUC17275		ESCAPE	FORD	2019			4,760	NE	24	21	SCHOOL
173	1FADP3F21EL151822	M92197	FOCUS	FORD	2014				NE	30	29-30	SCHOOL
RMLD-1			Highlander	Toyota	2020		AWD	6,000	NE	35	21	RMLD - Engineer
RMLD-2			Explorer	Ford	2017		AWD	6,180	NE	19	21	RMLD - Facilities Mgr
RMLD-3			Escape	Ford	2009		4WD	4,880	NE	28	21	RMLD - Director E&O
RMLD-4			Highlander	Toyota	2020		AWD	6,000	NE	35	21	RMLD - Meter/tech services
RMLD-7			Bolt	Chevrolet	2018		AWD	4,448	NE	119	29	RMLD - Customer Service/Pool
RMLD-11			F-150	Ford	2007		4WD	6,950	NE	15	18	RMLD - Line
RMLD-13			CK10753	Chevrolet	2011		4WD	7,000	NE	17	18	RMLD - GLF
RMLD-16			Highlander	Toyota	2020		AWD	6,000	NE	35	21	RMLD - Assistant Director E&O
RMLD-19			Escape	Ford	2008		4WD	4,800	NE	27	21	RMLD - Station/Meter
RMLD-24			F-150	Ford	2020		4WD	6,500	NE	20	18	RMLD - Asst. GLF
RMLD-29			CK10753	Chevrolet	2011		4WD	7,000	NE	17	18	RMLD - Engineer
RMLD-30			F-150	Ford	2014		4WD	7,350	NE	13	18	RMLD - Tech services manager
RMLD-31			F-150	Ford	2014		4WD	7,350	NE	13	18	RMLD - Engineer
RMLD-32			Escape	Ford	2009		4WD	4,880	NE	28	21	RMLD - Meter
RMLD-33			Escape	Ford	2011		4WD	4,800	NE	29	21	RMLD - Meter reader
RMLD-36			Highlander	Toyota	2020		AWD	6,000	NE	35	18	RMLD - Engineer



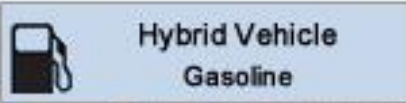
MARKET AND LOCAL TRENDS

Trends in Fuel Efficiency and Adoption in MA

Alternative Fuel and Hybrid Model Offerings by Manufacturer, 1991-2019



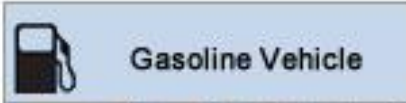
2020 Ford Escape AWD
HEV



2.5 L, 4 cyl, Automatic (variable gear ratios)

MSRP: \$29,765 - \$35,050

2020 Ford Escape AWD



1.5 L, 3 cyl, Automatic 8-spd, Turbo

MSRP: \$26,385 - \$36,835

Regular Gasoline

40 MPG
 combined city highway
 city/highway
 2.5 gal/100mi

Regular Gasoline

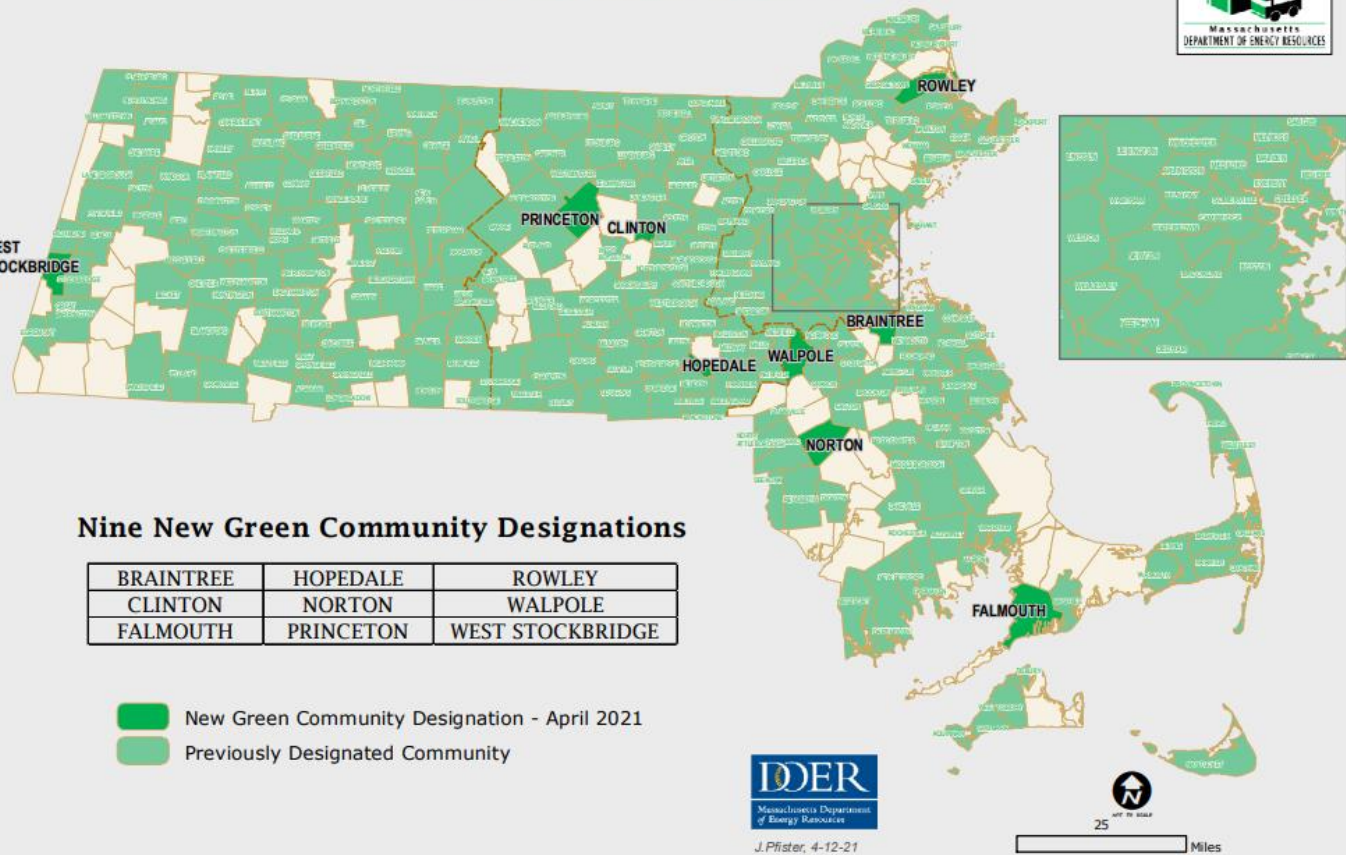
28 MPG
 combined city highway
 city/highway
 3.6 gal/100mi

2020 SUV model MSRP comparison example

GREEN COMMUNITY DESIGNATIONS REACH TWO HUNDRED EIGHTY



Nearly all **280** designated **communities** have adopted the fuel efficient vehicle policy.



Nine New Green Community Designations

BRAINTREE	HOPEDALE	ROWLEY
CLINTON	NORTON	WALPOLE
FALMOUTH	PRINCETON	WEST STOCKBRIDGE

- New Green Community Designation - April 2021
- Previously Designated Community



J. Pfister, 4-12-21



Questions?