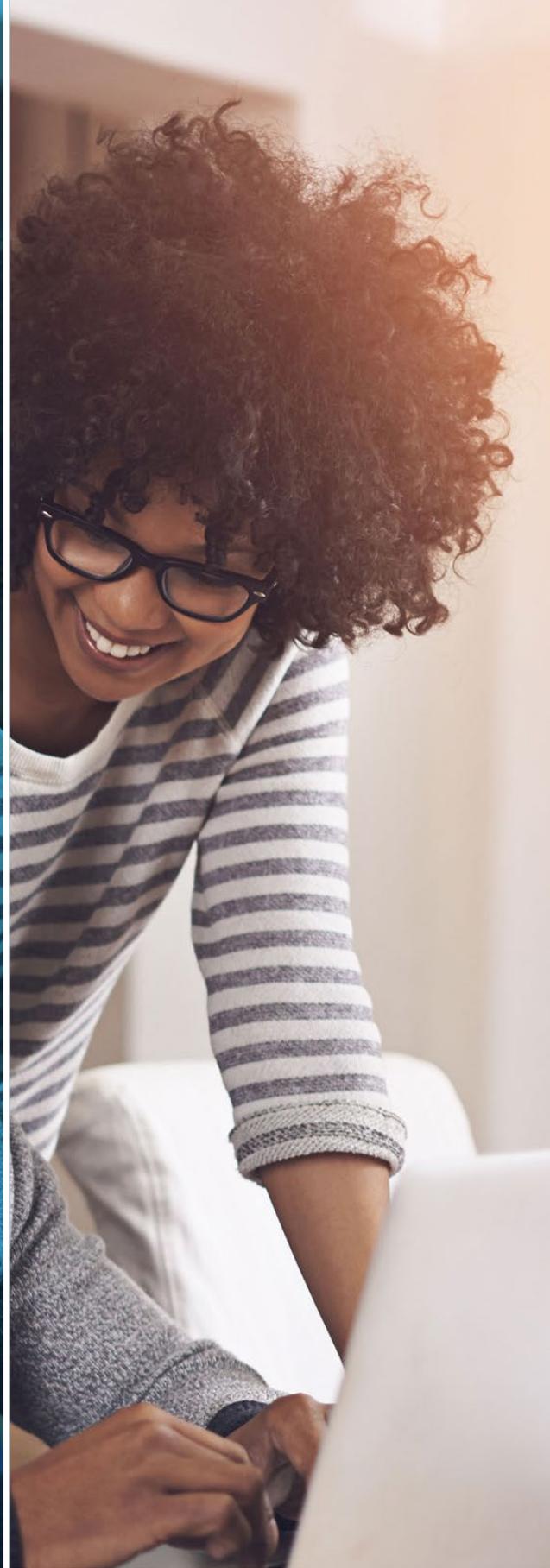




# Clean Energy Home Plan



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## Clean Energy Home Plan

Filling in these tables about your current home systems will help you identify opportunities to transition your home to clean energy. For more information on building envelope, clean electricity, efficient appliances, and electric vehicles:

[goclean.masscec.com/resources](http://goclean.masscec.com/resources).

Tightening The Building Envelope				
Weatherization Measure	Current situation	Approximate Age (if applicable)	Recommended Upgrade (if applicable)	Potential year of upgrade
Wall insulation	<p><u>Yes</u> / No</p> <p>Blown in cellulose with some settled parts</p>	Unknown (i.e not in the last six years)	Mass Save has said they wouldn't re-do the insulation because we have some. Maybe someone else would?	Get a whole-building energy audit in the next 1-2 years and ask about insulation.
Roof/attic insulation	<p>Yes / <u>No</u></p> <p>We're on the 1st floor, would be good for 3</p>	N/A	Hard to do roof insulation with a triple decker, but have someone look at it.	Get a whole-building energy audit in the next 1-2 years and ask about insulation.
Window and door	<p>Windows: Mix of 4 single-pane w/ storm, 10 double pane (1 broken), and 3 triple pane. Doors: Front and back doors are at an angle and both are leaky.</p>	<p>Windows: Mix of original to 5 years ago Doors: Original?</p>	Get new windows for the broken windows, maybe the ones for our bedroom. Get doors weather stripped.	Replace worst windows sometime this year. Get a whole-building energy audit in the next 1-2 years and ask about doors. Also look into DIY door options.
Professional air sealing	<p>Unknown (i.e., not in the last 6 years). Maybe some when the home had insulation blown in.</p>	N/A	Get air sealing done.	Get a whole-building energy audit in the next 1-2 years and ask about air sealing.

Getting Clean Electricity	
Who currently supplies your electricity and what % comes from renewables? (Check your electric bill.)	Standard Eversource
Do you currently purchase clean electricity offsets? (e.g., GECA's <a href="#">Green Powered program</a> )	Yes, I buy monthly offsets from Green Energy Consumer's Alliance's Green Powered program.
Does your home have potential for onsite solar?	Maybe, but the third floor would need to be interested. Also we don't have a common meter.
Does your municipality offer a clean electricity option, such as municipal aggregation? See <a href="http://goclean.masscec.com/resources">goclean.masscec.com/resources</a> for more information.	Not yet, but maybe soon!
Strategy to get 100% clean electricity (Options include onsite solar PV, community solar, municipal clean energy aggregation, clean electricity offsets, or any combination of these).	Keep buying GECA offset. Wait to see what happens with Boston's municipal aggregation.

## Ensuring Electric Service & Equipment Adequacy

Service and Panel	Current situation	Upgrade Necessary? (Y/N)	Potential year of upgrade (if applicable)	Notes
Electrical service to the home; total amperage	100 amps	Yes	ASAP, but see note...	To upgrade to 200 amp, by code we need to move all 3 meters outside and add a 4th. This makes upgrading our meter \$6.8k, which is a lot. Unsure what to do.
Available space in your electric panel to add new circuits/ accommodate new systems	Looks like two separate single poles (no double poles)	Yes	ASAP. Can we add more circuits to the electric panel without upgrading service?	

**Opportunities For Electric Efficiency:** Whenever you purchase electric appliances in your home, look for opportunities for efficient options. The Department of Energy (DOE) offers Energy Star ratings for electrical appliances like refrigerators, washing machines, and dishwashers. If you have any incandescent bulbs in your home, replace them with LED light bulbs.



## Transitioning Home Systems/Appliances to Clean Energy

	Fuel	Approximate Age (Years)	Description (e.g. existing system, distribution, area(s) of home served, notes about performance)	Potential year of replacement	Potential clean energy replacement
e.g. Heating (primary)	Natural gas	10	<i>forced air hot furnace, ductwork, heats whole home, second floor is drafty and ducts leak in 2nd floor kids bedroom</i>	2025	<i>air-source heat pumps</i>
Heating (primary)	Oil (steam boiler)	9 years old (2011)	Steam boiler with cast iron radiators. Not the kind that can be converted to hot water.	2021	Air-source heat pumps. I'd like to have one head in the living/dining room, one in our bedroom, and maybe a mini-ducted unit in the other bedroom/front room. Number of outdoor units depends on what the neighbors are comfortable with.

## Transitioning Home Systems/Appliances to Clean Energy (cont.)

	Fuel	Approximate Age (Years)	Description (e.g. existing system, distribution, area(s) of home served, notes about performance)	Potential year of replacement	Potential clean energy replacement
Heating (secondary)	N/A				
Air Conditioning	Electricity	Biggest unit is 2 years old. Others are 5ish and unknown (10+)?	3 window units. We only got the one for the main space when we were home during the summer for parental leave, but if we're going to be working from home more, we may use it again.	2021	Air-source heat pumps. I'd like to have one head in the living/dining room, one in our bedroom, and maybe a mini-ducted unit in the other bedroom/front room. Number of outdoor units depends on what the neighbors are comfortable with.
Hot Water Heating	Oil (steam boiler)	9 years old (2011)	Tankless coil within steam boiler. Very inefficient, especially in the summer.	2021	We need to figure out the issue with our electric service. Maybe it is possible to install an HPWH without upgrading our electric service?
Clothes Dryer	Electricity	Unknown		2025-2030	Our dryer works fine for now. Consider replacing as it gets older and better heat pump dryers come onto the market.
Stove/ Cooktop	Electricity	2 years old (2018)	Induction cooktop	~2035 or at end of life	Replace with another induction stove whenever this one fails. Hopefully not for a while.
Oven	Electricity	2 years old (2018)	Convection oven	~2035 or at end of life	Replace with another induction stove whenever this one fails. Hopefully not for a while.
Other	N/A				

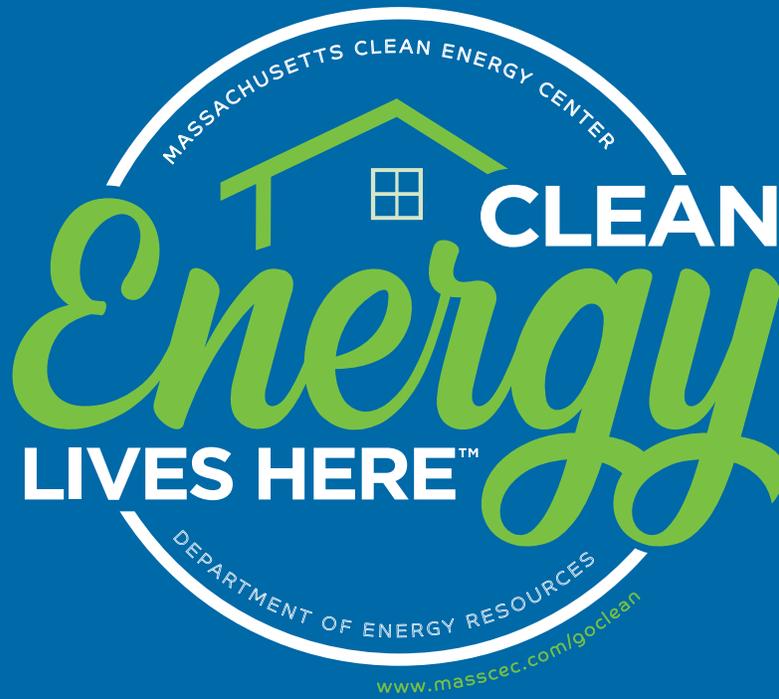
## Transitioning to Clean Vehicles/Transportation

Vehicle Type/Make/Model	Fuel type (gas, electric, hybrid, human-powered, etc.)	Approximate Age (years)	Important features (e.g. number of seats, 4-wheel drive)	Potential year of replacement	Planned Charging Location(s) (e.g., garage, driveway, work, public location)
N/A					We don't have a car now. We'd like to keep using transit, walking, and taking Zipcars as long as possible. With a kid, we might get a car soon. If so we would get an electric car and charge it in our driveway. We could install a level 2 charger, but that depends on the electric service upgrade issue.

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