

ARTICLE 40 : To Prohibit the Expansion of Fossil Fuel Infrastructure

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Mr. Lawson moves: that the town take affirmative action on Article 40 as printed in the Warrant

ARTICLE 40: Fossil
Fuel Free Construction

Article 40 seeks to limit the expansion of natural gas infrastructure in Concord by requiring all new construction and major renovations to be fossil fuel free.

ARTICLE 40: Prohibition of Expansion of Fossil Fuel Infrastructure

Global Climate Emergency

- Human existence is at risk from deadly fires, floods, rising tides, heat waves
- Global imperative to take immediate steps



Town Meeting 2017 passed Article 51

GOALS:

**Meet the Massachusetts Global Warming
Solutions Act and the Paris Climate Accord**

25% reduction in greenhouse gases by 2020

80% reduction in greenhouse gases by 2050

Concord's Strategy



Energy
Efficiency

+



Renewable
Electricity

+



Strategic
Electrification

=

Pathway To Decarbonization

(80% Reduction in GHG emissions by 2050)

- **100% renewable electricity by 2030**
- **Move to electric vehicles**
- **Transition heating from fossil fuels to electricity**

What is the Purpose of Article 40?

To protect the health, safety and welfare of town residents from the effects of air pollution, including greenhouse gas emissions that are contributing to climate change, and from fuel leaks and explosions that threaten the Town and its residents.

ARTICLE 40: Fossil Fuel Free Construction

More than 1/3 of Concord's GHG emissions come from natural gas and fuel oils used for heat and hot water.

Article 40 is the next logical step in ensuring Concord meets its legislative mandate to reduce GHG by 80% by 2050

ARTICLE 40: Fossil Fuel Free Construction

What is covered under this bylaw?

- **Any new construction of a home or commercial building**
- **Renovation of an existing building that increases the size of the building by 50% or more**



**ARTICLE 40:
Fossil Fuel Free New
Construction**

Can a Waiver to the bylaw be granted?

- **The building inspector may issue a waiver of the bylaw if the applicant demonstrates financial or technical hardship that would make the project infeasible**
- **Specified Waivers: Affordable Housing and the use of cook stoves in commercial kitchens**

Are there any Exemptions of the Bylaw?

- Fuel pipes used exclusively for backup generators
- Portable propane appliances such as those used for outdoors cooking or heating



Is there an Appeals Process for a Denied Permit?

Yes, the Town Manager will identify an entity in Town to hear and resolve complaints

ARTICLE 40: Fossil Fuel
Free New Construction

The Climate Emergency requires us to begin building a future without fossil fuels for our well-being. Article 40 is a small step in that direction.

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ARTICLE 40: Fossil Fuel Free Construction



Cold Climate Heat Pumps

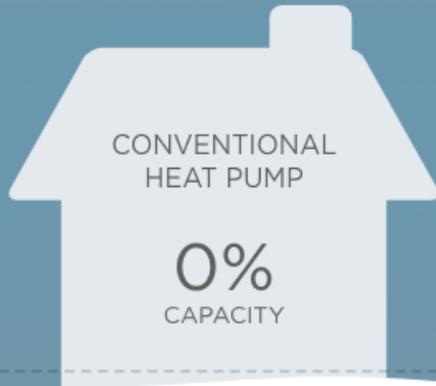
Temperature at 6:00AM	Number of Days	Percent of days
Below 0°F	0	0%
0 to 5°F	1	1%
5 to 10°F	5	4%
10 to 20°F	6	5%
21 to 32°F	47	39%
Above 32°F	63	52%

Heat pumps are at 100% of capacity at 5°F

And, no back-up heat is required

ONLY MITSUBISHI ELECTRIC HEAT PUMPS FEATURE HYPER-HEATING

While heat pumps have always been an efficient way to provide winter heating, they tend to perform poorly in very cold climates. Until now.



-13° F

An orange circle with a white border containing the text '-13° F' in white. A dashed horizontal line passes through the center of the circle.

