

# A Proposed Climate Action Initiative

Jack Spicer, Chair

Ad-Hoc Climate Advisory Committee

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Jack Spicer, Chair (Resilient Hartford Delegate)

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Erik Kraus, Vice-Chair (Energy Committee Delegate)

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Geoff Martin, Secretary (Energy Coordinator, Dept. of Planning & Development)

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Matt Osborn (Planner, Dept. of Planning & Development)

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Simon Dennis (Selectboard Delegate)

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Alan Johnson (Selectboard Delegate)

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Kevin Christie (School Board Delegate)

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Peter Merrill (School Board Delegate)

“Shall the development, operation, and maintenance of the Town of Hartford’s municipal infrastructure and equipment be required to achieve carbon neutrality by 2027?”

# Carbon Neutrality

“Carbon neutrality” means annual zero net anthropogenic (human caused or influenced) CO<sub>2</sub> emissions by a certain date. By definition, carbon neutrality means every ton of anthropogenic CO<sub>2</sub> emitted is compensated with an equivalent amount of CO<sub>2</sub> removed (e.g. via carbon sequestration).

# Calculating Carbon Footprint

## Infrastructure:

Bugby Center  
Landfill/Recycling Center  
Public Safety Building  
Public Works Building  
Quechee Fire Station  
Town Hall  
WABA  
W. Hartford Library  
Wastewater Treatment Plants & Pump Stations  
13-15 Parks/Facilities  
Roads

## Equipment:

### Vehicles

Heavy Duty — 11  
Medium Duty (Vans) — 1  
Trucks — 15  
Light Duty — 13  
Ambulances — 2

# How do we get there by 2027?

Investing in Energy Efficiency

Signing Power Purchase Agreements

Replacing High Emitters

Investing in Offsets for Emissions

# What will it cost?

**Sedan:** burning a gallon of E10 produces 18.9 LBS CO<sub>2</sub>e.

Assuming 13,000 miles/yr x 25mpg = 520 gallons = 9828 LBS = 4.5mT

Offsetting at \$15/mT, the cost of offsets is about \$68/yr

**Solar:** Town solar arrays produce about 900 kW of net-metered solar for a total benefit of \$28,351 in savings and revenue in 2018. We maintain the RECs, meaning the Town can claim the renewable and environmental benefits of the electricity. Our arrays have produced 119,435 kWh of renewable energy, and avoided emission of 86,900 lbs of carbon dioxide

## Next Steps:

The Climate Action Initiative will go through final review

A vote will be held during Town Meeting day on March 3, 2019

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# Resources

<https://www.wri.org/blog/2015/12/cop21-glossary-terms-guiding-long-term-emissions-reduction-goal>

<https://nativeenergy.com/our-approach/carbon-offsets/>