



# Town Of Concord

# ANNUAL SUSTAINABILITY REPORT

2018



## Sustainability Division

Concord has a long history of sustainability, but 2018 marked the inaugural year of Concord’s Sustainability Division. The Sustainability Division works closely with other Town departments, residents, businesses, and community groups to integrate sustainability and resilience into all that we do. This report highlights sustainability efforts around energy, natural resources, transportation, waste, and community engagement across Concord.

- We placed a large emphasis on engaging our community broadly
- Pursued and secured a number of grants and awards
- Quantified our GHG emissions to determine a pathway to our 80% by 2050 goal



### Energy

Our electricity was 54% carbon-free in 2018



### Natural Resources

Our water conservation efforts are gaining traction



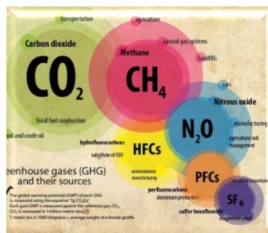
### Transportation

Concord now has more than 200 EV owners



### Waste

Reuse and recycling efforts are on the rise



### Greenhouse Gas Emissions

GHGs have decreased 6% since 2008



### Community Engagement

Directly engaged nearly 500 people



### Grants/Awards

Awarded \$162,000 for sustainability related projects



## Energy Overview

Concord's electricity was **54% carbon-free** in 2018 thanks to CMLP's purchase of renewable energy credits (RECs).

In CY18, CMLP and the Town gave out over:

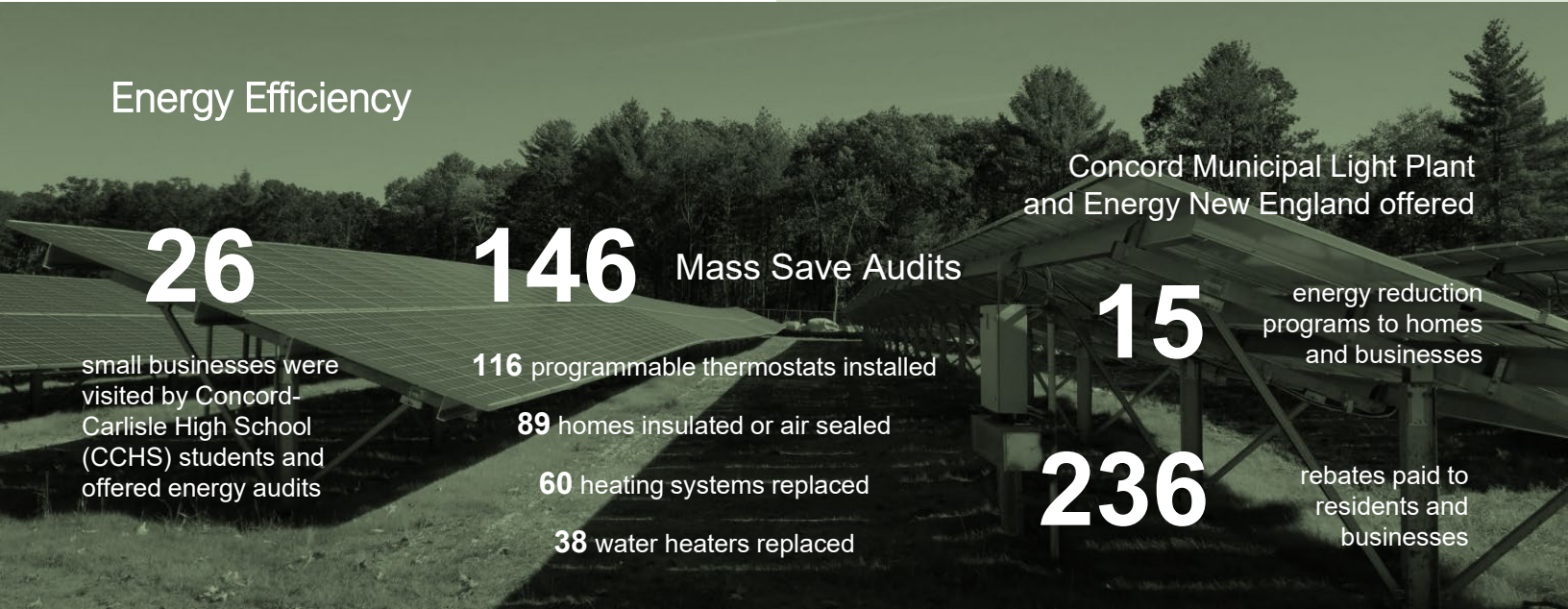
**\$472,500** in energy efficiency and renewable energy rebates and

**149 energy audits** to residents and businesses

16 homeowners (11%) responded to a survey about their Home Energy Assessment with comments such as:

**PROFESSIONAL  
INFORMATIVE  
THOROUGH THANK YOU**

## Energy Efficiency



Concord Municipal Light Plant and Energy New England offered

**26**

small businesses were visited by Concord-Carlisle High School (CCHS) students and offered energy audits

**146**

Mass Save Audits

116 programmable thermostats installed

89 homes insulated or air sealed

60 heating systems replaced

38 water heaters replaced

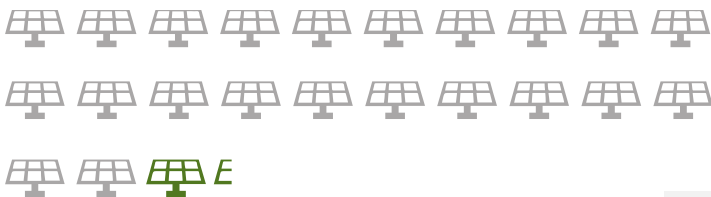
**15**

energy reduction programs to homes and businesses

**236**

rebates paid to residents and businesses

## Renewable Energy



**= 3.5 MW capacity**

= 14 real solar arrays

= installed in 2018

**5**

large-scale commercial and utility-scale arrays in town totaling 7.57 MW, which CMLP buys through power purchase agreements



# Natural Resources

## Volunteer Efforts



Improving river access for paddlers along the Assabet River at two locations



Removed five, 1-ton truck loads of invasive plants in one day alone!

## Water Conservation

7

Water conservation consultations

11

Washing machine rebates issued

19

High-efficiency toilet rebates issued

### Water Efficiency Video



# Transportation

## Electric Vehicles

**200+** Electric Vehicles (EVs) in Concord

**2** New public EV charging stations

**1** New electric vehicle in municipal fleet

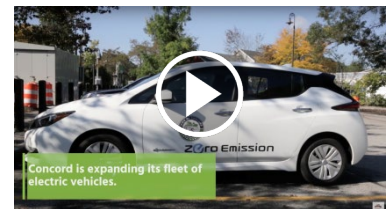
**43** EV Miles enrollees

EV Miles participants program their electric vehicles to charge off-peak and receive a monthly bill credit for their participation.

**5** Number of EV Level 2 rebates

EV Level 2 Program offers owners a rebate of \$250 to help offset the cost of installing some or all components of a Level 2 system for higher speed charging of an electric vehicle at your home.

## Why Drive Electric in Concord?



Watch Our Video

**Electric Vehicle Support Toll-Free Phone Line and Email Launched**

833-443-8363  
ev@ene.org



# Waste



## Concord Bike Giveaway

62 used bikes found  
new riders!



## DropOff Events

40,234 lbs. of electronics  
23 tons of scrap metal  
295 appliances  
7.45 tons of carpet and bulky plastic



## Paint Collection

492 residents dropped off paint  
177 residents picked up paint for reuse projects



## Hazardous Waste Collection Event

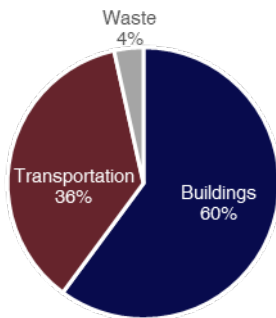
230 vehicles in attendance – the largest hazardous waste collection to date!



## Business Recycling Events

47 Concord businesses attended  
6,096 linear feet of fluorescent light bulbs recycled  
792 lbs. of batteries collected

## Greenhouse Gas Emissions



### GHG Emissions by Sector (2016)

Concord conducted a baseline (2008) and an updated (2016) greenhouse gas (GHG) inventory of our community-wide emissions.

### 6% decrease in emissions from 2008 to 2016

#### Goals

25% reduction in town-wide GHG emissions\*

100% carbon-free electricity source

80% reduction in town-wide GHG emissions\*

\* From a 2008 baseline

2020

2030

2050

## Community Engagement



14

new speaking engagements or events



Social media handles launched  
@ConcordClimate

Climate Action Advisory Board established.

Meetings open to the public every 3rd Wednesday from 7-9 PM

486+

people reached through MVP grant community engagement

### Grants/Awards

\$116,500

MA Green Communities

\$33,000

MA Municipal Vulnerability Preparedness Program

\$12,500

Municipal Energy Technical Assistance Grant