

# **DRAFT REPORT OVERVIEW**

**ENERGY FUTURE TASK FORCE**

**TOWN OF CONCORD, MA**

**FEBRUARY 6, 2017 SELECT BOARD MEETING**

# **RESPONSIBILITIES AND DUTIES OF EFTF AS STATED IN THE CHARGE**

- 1. Identify and review current enabling legislation or acts**
- 2. Identify and inventory Concord's current energy uses and develop baseline**
- 3. Meet with town departments to identify areas of mission overlap**
- 4. Host a public meeting to solicit public input**
- 5. Review and evaluate energy service models of IOU's and other plans**
- 6. Make recommendations to the Town Manager and Select Board**
- 7. Prepare a draft report of recommendations and hold a public hearing to review**

# **OUR WORK IS GUIDED BY:**

- 1. International commitments for greenhouse gas reduction expressed in the 2015 Paris Agreement on climate change and Massachusetts' goals for greenhouse gas reduction expressed in the 2008 Massachusetts Global Warming Solutions Act.**
- 2. A commitment to bold approaches and actions to achieve greenhouse gas reduction consistent with the urgency of the current global anthropogenic climate crisis, and with Concord's long history of leadership and of stewardship of our natural world.**
- 3. A recognition that Concord is part of, and should actively contribute to, the fast-paced global, national, state, and municipal transformation from an economy powered by fossil fuels to an economy powered by clean energy.**
- 4. A commitment to Concord's sustainability principles.**

# GOALS & RECOMMENDED IMMEDIATE NEXT STEPS

## GOALS

**25% reduction in greenhouse gases by 2020**

**80% reduction in greenhouse gases by 2050**

**These are town-wide goals and are applicable to all sectors. The baseline is 2008.**

## RECOMMENDED IMMEDIATE NEXT STEPS

- 1. Issue a policy statement to establish decreasing emissions as a criterion in all Town decisions.**
- 2. Hire a Director of Energy [or other title] and a consultant to assist the Director to guide the Town in designing and implementing a sustainable energy future consistent with the recommendations in this Report.**
- 3. Appoint a new advisory group to assist the Town Manager, the Energy Director, and the consultant.**
- 4. Integrate the goals and recommendations of the EFTF report into CMLP's current strategic planning effort and with the Comprehensive Long Range Plan currently underway**

# **EFTF SUBCOMMITTEES**

- **PUBLIC OUTREACH**
- **BASELINE DATA**
- **CONCORD MUNICIPAL LIGHT PLANT (CMLP)**
- **BEST PRACTICES**

# **PUBLIC OUTREACH**

- A. At three public meetings**
- B. Meetings with CMLP**
- C. Stakeholder Interviews**
- D. In the on-line survey**
- E. Through emails**
- F. At task force meetings**
- G. Concord's Townwide Survey**
- H. Fincom Hearing February 27**
- I. Select Board March 27**

# 2008 BASELINE DATA – CONCORD'S CARBON FOOTPRINT

**227,949 Tons of CO<sub>2</sub> in 2015**  
which is equivalent to the  
weight of the Sears Tower.  
(minimum value)

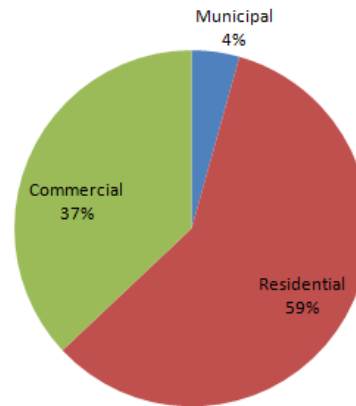
Concord's full GHG Footprint  
is estimated to be 3 times  
greater when:

- All GHGs (CH<sub>4</sub>, N<sub>2</sub>O, F-gases)
- Propane Purchases
- Fugitive Methane Leaks
- Products and Services we buy are considered

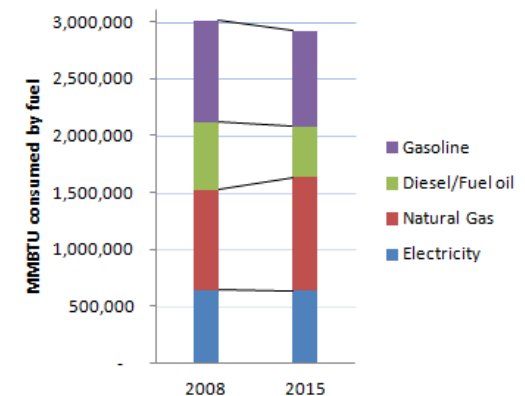
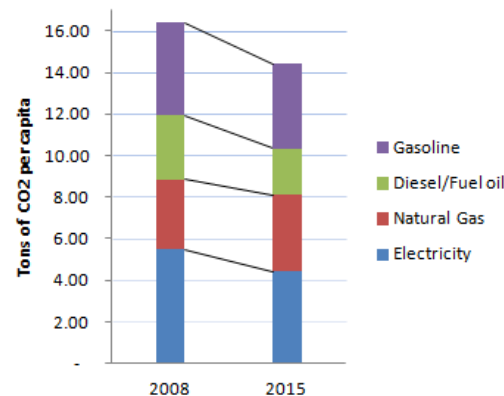
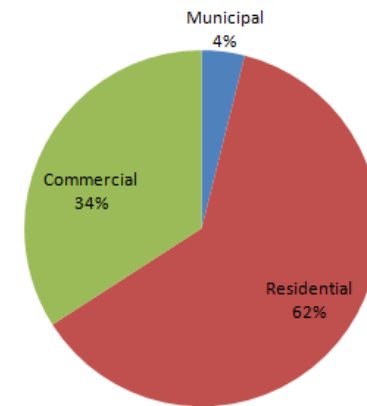
Over 7 years Concord has

- Switched Oil to Natural Gas
- Reduced CO<sub>2</sub> by 9.9%

2008 - 250,852 Tons of CO<sub>2</sub>



2015 - 227,949 Tons of CO<sub>2</sub>



Source: The Comprehensive Sustainable Energy Committee (CSEC)  
Restated 2011 Concord Master Energy Plan.

# **CONCORD MUNICIPAL LIGHT PLANT (CMLP)**

- **The EFTF worked closely with CMLP, meeting with Dave Wood and CMLP staff. Laura Scott participated in EFTF meetings as CMLP liaison.**
- **Electricity supply procurement decisions have a profound impact on GHG emissions**
- **Encourage TM and SB to engage CMLP as a partner to integrate GHG emission goals in Strategic Planning**
- **Encourage TM and SB to engage Light Board as a partner to guide implementation of strategic goals**



# **PROPOSED RECOMMENDATIONS REGARDING CMLP**

**Develop a set of cost-effective energy efficiency incentives and measures that meet or exceed those offered by Massachusetts investor-owned utilities**

**Convert CMLP's electricity supply to non-emitting resources with a target of achieving 100% from non-emitting resources by 2030**

**Consider alternatives to reduce barriers for adopting energy efficiency measures**

**Develop incentives to encourage users to switch from fossil fuels to electricity from clean energy sources for heating and transportation**

# **BEST PRACTICES**

- **Concord's Sustainability Principles**
- **What Concord is Already Doing**
- **Strategies and Tactics from Other Cities and Towns**
- **Concord's Other Sectors**

# WARRANT ARTICLE – TM 2017

## Warrant Article 51– Concord’s Energy Goals

To determine whether the Town, informed by the Paris Climate Agreement of 2015, will vote to align the energy goals of the Town of Concord with: (a) the Massachusetts Global Warming Solutions Act of 2008 to achieve a minimum 25% town-wide reduction in Green House Gas (GHG) emissions by 2020 and an 80% reduction by 2050 from the baseline established in 2008; and (b) by 2030, as an intermediate goal, direct CMLP to reduce the GHG emissions of its power supply portfolio and to offset any residual GHG emissions of its electricity supply through the purchase of RECs or other offsets;

and further,

to determine whether the Town will vote to raise and appropriate or transfer from funds available in the Treasury, the sum of \$100,000, or any other sum, to be expended under the direction of the Town Manager for the purpose of engaging one or more consultants for the purpose of developing and making publicly available an operational plan to achieve said goals;

and further, to see if the Town will vote to raise and appropriate or transfer from available funds in the Treasury, the sum of \$100,000, or any other sum, to be expended under the direction of the Town Manager for the purpose of hiring a Director of Energy, on an on-going basis, to be accountable to the Town Manager for recommending policy and measuring progress toward meeting these goals and implementing the operational plan, as well as tracking and assessing new energy technologies and funding opportunities, or take any other action relative thereto.