

## GREEN ENERGY COMMITTEE

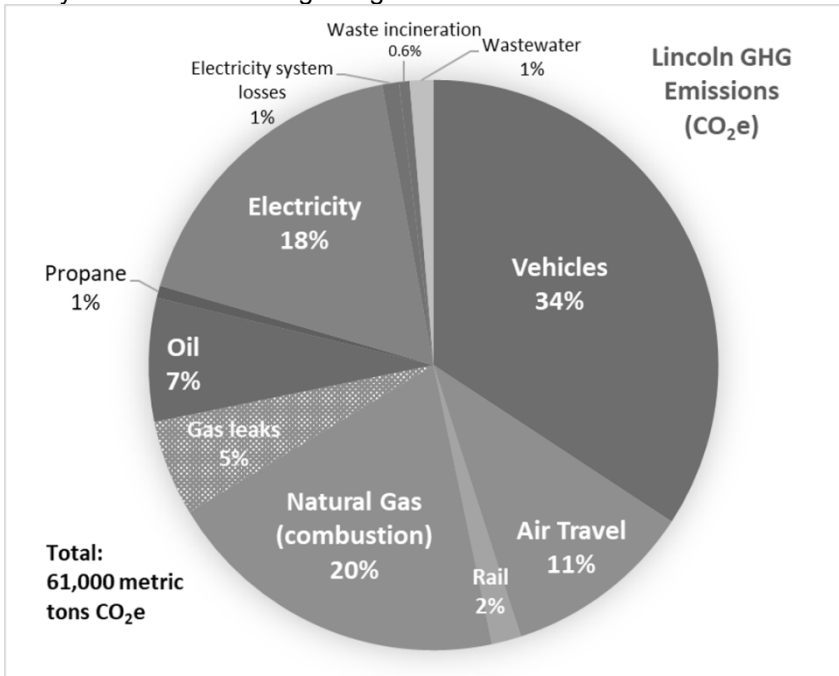
Jim Hutchinson  
Sue Klem  
Edmund Lang  
Ed Kern  
Ann Risso

Paul Shorb  
Jonathan Soo  
CJ Volpone  
Mary Day, Ex-officio  
Peter Watkinson, Chair

Established by the Selectmen in 2007, the Green Energy Committee (GEC) serves as the Town's primary resource to identify technologies, initiatives, and resources in order to reduce Lincoln's CO<sub>2</sub>e emissions. In addition to our committee members, there is a deep bench of GEC contributors advocating for, leading and supporting municipal and town efforts. Jennifer Glass is the Select Board BOS/GEC Liaison.

We would like to highlight some of the GEC's key efforts:

- The GEC worked with James Booth who developed **Lincoln's Greenhouse Gas (GHG) Emissions Report** in 2019. This pie chart below represents a summary of that work and a guiding focus for the GEC's actions in 2020.



Lincoln's GHG emissions accounting enables the GEC to quantify Lincoln's CO<sub>2</sub>e emissions, focus on reducing/eliminating the primary emissions

sources, communicate effectively amongst town boards, committees and residents and track Lincoln's progress toward our carbon neutral objective.

- Launch the EV 2020 Campaign to switch Lincoln residents to electric vehicles (EV) through the purchase/lease of new/used pure electric vehicles. Lincoln's vehicles, mostly residentially-owned, are responsible for 1/3 of Lincoln's direct CO<sub>2</sub>e emissions. Lincoln has the most EVs per capita in neighboring towns (MOR-EV data) and the GEC wants to aggressively extend that lead.
- Use Community Choice Aggregation (CCA) to boost the renewably-generated content of Lincoln's electricity above the 16%, currently mandated by the Commonwealth, to 100%. This is critical because shifting to renewably-generated electricity will make our homes and EVs in Lincoln CO<sub>2</sub>e emissions-free. The GEC will make a recommendation to the BOS for the CCA renewable electricity percentage for Lincoln later this year.
- Develop campaigns and working groups/subcommittees to address the other major CO<sub>2</sub>e emissions from natural gas, oil and air travel. These represent the remaining 50% of Lincoln's CO<sub>2</sub>e emissions.
- Establish a new working group to support legislative efforts to help us achieve our direct CO<sub>2</sub>e emissions reduction goals and to address our indirect CO<sub>2</sub>e emissions (embedded in the food, products and services that we buy). These indirect CO<sub>2</sub>e emissions are comparable to our direct CO<sub>2</sub>e emissions.
- Continue to work with the School Building Committee (SBC) on a high efficiency school building envelope powered completely by onsite photovoltaic (PV - Solar) arrays through a Power Purchase Agreement (PPA) to achieve a Net Zero campus. Lincoln is tracking successfully to achieve these goals.
- Continue to increase our energy efficiency including energy audits, Homeworks and Heat Smart program. While energy *not* used is an effective way to lower CO<sub>2</sub>e emissions, Lincoln's direct CO<sub>2</sub>e emissions identified in the pie chart above can only be eliminated by converting to electrical systems/vehicles and to 100% renewably-generated electricity.
- Develop/Support PV projects including CCF (operational 2019), Lincoln Mall, FPL (operational 2019), Public Safety and Transfer Station.

We will continue to work this year toward a plan to make Lincoln a carbon neutral community by 2030. This is an aggressive target that is motivating the GEC to reduce/eliminate the largest CO<sub>2</sub>e emissions sources in the fastest and easiest way possible. Our roadmap for vehicles and electricity meets this goal.