

Derry Net Zero Task Force Update

February 16, 2021

Mission

The Task Force Mission is to explore and achieve cost effective solutions for reduced energy use and sustainable energy development on town controlled property, municipal buildings, vehicles and schools, while developing a comprehensive plan to achieve the goal of "Net Zero" compliance by all key stakeholders by 2025. Additionally, to promote energy conservation, energy efficiency, and explore other ways to reduce carbon emissions among the Town's residents and businesses. Lastly, to reduce water usage where feasible.

Net Zero Task Force Members

- ▶ Josh Bourdon (Vice-Chairperson) as the Derry Town Council Liaison
- ▶ Brewster Bartlett from Pinkerton Academy
- ▶ Tom Cardon from the Public (Secretary)
- ▶ John Cunningham - from the Economic Development Committee
- ▶ Mike Fodiman from the Public
- ▶ Mike Fowler from the Derry Public Works Department
- ▶ Craig Lazinsky from the Public
- ▶ Jeff Moulton (Chairperson) from the public
- ▶ John O'Connor from the Planning Board
- ▶ Mary Till from the Conservation Committee/Go Green
- ▶ Vacant representing the Derry Cooperative School District
- ▶ Alternates: Bob Mackey from Code Enforcement, John Eckerson from the Public and vacant from the Derry/Londonderry Chamber of Commerce

2020 Results

- ▶ Benchmarked all Town and School Buildings vs Previous Energy Usage
 - ▶ Fire Stations (4) were only buildings to show increased energy usage
 - ▶ All other buildings continued to show decreases, resulting in >\$450,000/yr in savings for Town and >575,000/yr for Schools as compared to 2010
- ▶ Model Ordinance Provided to Planning Board for Solar Installs
- ▶ Lobbied Legislature on Behalf of Net Metering Expansion - Failed to Convince Derry Reps to Support New Legislation
- ▶ Planning for Solar Project for Landfill postponed; scoped smaller projects if 2021 legislation fails to materialize
- ▶ LED Plans for all Town Buildings - partially complete
- ▶ Heat Pump Assessment for Town Buildings completed - deemed not suitable for commercial or municipal size buildings

2021 Goals - Draft

- ▶ Maintain & Update Energy Usage Tracking for all Town & School Buildings
- ▶ Develop a Plan for Reducing Energy Usage for 4 Fire Stations
 - ▶ Audit via NH Saves (subsidized by Utility)
 - ▶ Recommended projects to TC for LEDs, HVAC and controls upgrades, etc where payback is <20 years
- ▶ Complete LED Program for all Town Buildings (1-4 year paybacks)
- ▶ Continue Legislative Lobbying for 1) Net Metering Expansion for Solar Projects (HB106) and 2) Stop Eversource Attempts to Kill Community Power (HB315) & Others
- ▶ Continue Monitoring of Community Power Initiatives with Other Towns and Develop Plan/Recommendations for Derry in Parallel
- ▶ Electric Vehicle Recommendations for Town Fleet - State Contract
- ▶ Natural Gas & Heat Pump Seminars for Residents & Businesses
- ▶ Landfill Solar Project if Pending Legislation Supports vs Smaller Projects

State of NH - Energy Management Program

- ▶ Reduce Fossil Fuel Usage by 50% below FY2005 by FY2030
- ▶ Reduce State Passenger Vehicle Fleet Cost by 30% below FY2010 by FY2030 - EVs have less maintenance & fuel is 50% vs gas/diesel
- ▶ Authorizes 50% of energy utility budget at end of fiscal year to be placed into a dedicated energy fund for new projects
- ▶ All new projects must emphasize total life cycle cost and payback for projects to be <20 years
- ▶ State of NH has saved \$47M since FY2005
- ▶ Recommendations to Town Council:
 - ▶ Adopt State Payback Criteria for new projects (<20 years)
 - ▶ Reduce Town's Vehicle Fleet Cost by 30%
 - ▶ Utilize State Buying Contract for New Vehicles. - EV trucks, cars, SUVs
 - ▶ Analyze EV use by Police, Fire, DPW and & Admin & Make Recommendations for future purchase needs