

# Town of Derry CMAAQ Application

February 16, 2023

# Town of Derry - CMAQ Application

**Support: Town Council formed a Net Zero Task Force in 2016 to Achieve Net Zero by 2025**

- ▶ **Reduce Town Costs & Replace Carbon Sourced Fuels With Renewable Energy Wherever Possible**
  - ▶ Create cost effective solutions for reduced energy use on town-controlled properties
  - ▶ Enhance Air Quality - Produce enough renewable energy to meet the municipal portion of the town's annual electricity consumption by 2025 and achieve Net Zero for this segment
  - ▶ Convert Town owned vehicles to EV/HEV and achieve Net Zero for this segment as vehicles & EVCS becomes available
- ▶ **Members: Public, Planning Board, Code Enforcement, Schools, Town Council, Department of Public Works (DPW) - including LPA staff**

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- ▶ Over the last 10 years, Town of Derry has implemented LED replacements, HVAC upgrades, infrastructure upgrades, 3<sup>rd</sup> party gas and electricity supply contracts, etc. to achieve saving of over \$900k/year
  - ▶ Town Council can approve & authorize funding for these type of projects in as little as a 3 week period (including public hearings)
  - ▶ Town currently has a strong financial rating, with no weaknesses identified by our most recent audit
- ▶ Currently implementing a 2.2 Mw solar project at our landfill site to cover 100% of town's municipal electricity needs for \$3.5-10M in savings
- ▶ Benchmarked town fleet (ICE) for EV/HEV replacement by usage and mileage
  - ▶ All most all vehicles can take advantage of overnight charging (L2) with except of police patrol (L3)
- ▶ Identified locations for potential EVCS infrastructure
  - ▶ Cost estimates have been completed (\$1.4M)

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- ▶ **Infrastructure Planning & Support**
  - ▶ DPW currently supports existing 4 EVCS (L2) installations & solar projects with experienced engineers, electricians & construction personnel
- ▶ **EV/HEV would be maintained by existing DPW and Police maintenance groups**
  - ▶ It's anticipated that the maintenance & operational savings from ICE to EV/HEV (40-50%) will enable existing staff to support new EVCS projects
- ▶ **New EV/HEVs replacements would be funded via normal capital budgets but CMAQ funding would cover cost differentials and customizations (e.g. police cruiser infrastructure)**
  - ▶ 6 Year Life for police cruisers/10 years for all other
- ▶ **EVCS Maintenance – to be maintained by DPW staff who have experience with existing L2 stations. Expected life of EVCS infrastructure is 25-50 years, with chargers at 5-6 years**

# Analysis

- ▶ See Attached Spreadsheet for Financial Analysis