

DORCHESTER

CORPORATE ACTION PLAN UPDATE

MILESTONE 4

March 2020



Activity + Timeline	Partners/Resources	Estimated Emissions Reduction	Milestone 4 Updates
1. Upgrades/Renovations to Municipal Buildings			
New roof and siding on Dorchester Veterans Community Centre at 4955 Main St. 2014 (completed)	Village council and staff A grant was received to help cover some of the costs.	New roof and siding increases energy efficiency due to increasing insulating values.	Completed
Upgraded lighting in various buildings including the village office where the overhead lights were replaced with more energy efficient tubes. Also replaced the cases with ones that have latches so the covers can be easily lowered and will not break. (We had replaced dozens of the covers prior to this.) 2012 (completed)	Village council and staff The municipal budget covered the costs of the upgrades.	LED tube lighting uses up to 41% less power than regular tube lighting.	Completed
Switch from propane to natural gas heating at the Fire Hall. 2013 (completed)	Village council and staff Municipal budget covered all expenses.	Natural gas (consisting primarily of methane) generates about 17% fewer CO2 emissions per BTU than propane when burned	Completed
New roof and insulation for Village Office. 2013 (completed)	Village council and staff Gas Tax fund, Municipal government savings covered the expenses.	New roof and insulation will save energy, reduce emissions and lower heating costs.	Completed
2. Municipal Vehicle Fleet Upgrades			
Purchase a new, more fuel-efficient tractor to clear snow from the rink, fire hydrants, and sidewalks, etc. September 2014 (completed)	Village council and staff The municipality covered the costs.	A litre of gasoline is generally accepted to emit 2.38kg of carbon dioxide. A more fuel-efficient tractor will reduce emissions. Total savings will depend on how much it is used.	Completed
Purchase a new more fuel-efficient fire truck. Was purchased in 2013 (completed)	Village council and volunteer fire department A loan was used as well as accumulated savings set aside for the purchase of a fire truck were used.	The 2013 International replaced the 1986 GMC truck. Fire trucks have an average fuel consumption rating of 4-8mpg (Centre for Transportation Analysis. http://cta.ornl.gov/cta/)	Completed

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3. Energy Efficient Street Lighting			
105 new LED streetlights installed throughout Dorchester Summer 2014 (completed)	NB Power None (renting lights from NB Power who installed the new lights.)	105 LED lights x 0.225 t CO2e/annually = 24 tonnes CO2e saved per year. (Savings of 0.225 t CO2 e based on NB Power's estimates)	Completed
4. Improve Operational Efficiencies			
Improve efficiencies between Dorchester and nearby Fort Folly First Nation (eg. EMO, water and sewer, service agreements updated, fire services, etc.). This will save time and money for the Village of Dorchester in particular with water and sewer services. Fort Folly accesses Dorchester's water and sewer but Dorchester currently does not help to maintain/manage the pipes, etc. within Fort Folly land. By doing so it would save water and conserve energy. Additional leaks may be identified and could be fixed, saving the village water and energy. 2015 and ongoing	Village council and Fort Folly Community Infrastructure Partnership Program (FCM) Estimated cost to improve water and sewer infrastructure efficiencies between Fort Folly and Dorchester: \$ 40,0000	Emissions reductions will depend on which efficiencies are implemented.	Agreements for water/wastewater and fire with for Fort Folly are still ongoing.
Rent Donna Cormier's Garage (at 8 Station Rd) for town shop (closer, less travel, saves money, saves wear and tear on vehicles). The municipality is in dire need of a building that the maintenance staff can work in. Municipality is insulating the garage and putting in electricity. 2015 (currently being renovated)	Village council and staff and Donna Cormier. Will pay rent to Donna Cormier. Municipality is covering the expenses for this renovation and that will be taken into account for the rental cost. The first three years will be rent free. After that it is expected that rent will be about \$300/month.	Reduced driving time equals less gas used and less maintenance needed on the vehicle fleet. A litre of gasoline is generally accepted to emit 2.38kg of carbon dioxide. A more fuel-efficient tractor will reduce emissions. Total savings will depend on how much it is used.	There is still no space for municipal public works, the municipality is not renting the garage. No further details are available.
5. Water and Sewer Upgrades			
Lift station at 2 Water St needs to be rebuilt in order to reduce its energy footprint. The electric panel must also be replaced. The backup pumps must be replaced, and the building is in need of repair. No date set yet.	Village council and staff Funding will come from the Gas Tax Fund Cost: \$140,000 estimate	One upgraded pump could save around 50kg of CO2e per year. The repairs to the lift station will result in further emissions reduction.	This has not been completed and is not in the current plan for gas tax.