

Cape Elizabeth EV Charging Stations Preliminary Cost Estimates & Efficiency Maine Rebate

Town Council

9 Nov 2020

Cape Elizabeth EV Charging Stations

- Efficiency Maine Trust (EMT) is offering rebates to cover up to 80% of the cost for the installation of charging stations for Electric Vehicles (EV)
- Minimum of 4 charging plugs per site
- Limited to maximum of 8 charging plugs per site
- Networked (can charge for electricity) or Non Networked (electricity paid by Town)
- Cape Energy Committee suggests two sites – Ft Williams & Community Center
- Separate Applications for each site must be received by EMT by Dec 1, 2020
- Award date Dec 17, 2020
- Installation must be completed no later than 12 months after award

Cape Elizabeth EV Charging Stations

- Costs shown are preliminary estimates and will be refined during application process.
- Equipment prices are based on preliminary equipment vendor quotations
- Installation cost are site specific and can vary significantly. Prices included are based on estimates from Efficiency Maine for past projects.
- Firm quotations for installation are pending Town and site approval
- Annual software & maintenance costs vary significantly between vendors.
- Network connection costs to be determined
- Prices shown are for one 4 charging plug installation.
- Final costs for the two sites will be different.

Cape Elizabeth EV Charging Stations

PRELIMINARY ANNUAL COST ESTIMATES FOR EACH 4 PLUG INSTALLATION	
	ANNUAL COSTS
SOFTWARE	
LOW	\$ 600.00
HIGH	\$ 1,400.00
MAINTENANCE	
LOW	\$ 200.00
HIGH	\$ 1,100.00
TOTAL	
LOW	\$ 800.00
HIGH	\$ 2,500.00

Cape Elizabeth EV Charging Stations

ESTIMATED ANNUAL INCOME FOR A 4 PLUG NETWORKED SITE							
15-Oct-2020		rev		1-Nov-2020			
Number of Plugs	Availability		Usage	Energy / Plug	Excess Tariff Surcharge by Town	Income	
	Hours / Day	Days / Mo	percent	Kw	\$/kWh	Per Month	Per Year
4	10	30	25%	7.2	0.05	\$ 108.00	\$ 1,296.00
4	10	30	40%	7.2	0.08	\$ 276.48	\$ 3,317.76

Cape Elizabeth EV Charging Stations

PRELIMINARY PRICE ESTIMATES FOR EACH 4 PLUG INSTALLATION								
	CAPITAL					ANNUAL		
FOUR PLUG SITE	EQUIPMENT	INSTALLATION	TOTAL CAPITAL COST	REBATE ALLOWANCE FOR 4 PLUG SITE (Networked 80% of Capital Cost to max of \$16,000)	INITIAL COST TO TOWN	ANNUAL COST - MAINTENANCE & SOFTWARE	ANNUAL INCOME	NET TO TOWN
4 PLUG NETWORKED SITE								
LOW	\$ 10,000	\$ 8,000	\$ 18,000	\$ 14,400	(\$3,600)	(\$800)	\$1,200	(\$1,300)
HIGH	\$ 15,000	\$ 20,000	\$ 35,000	\$ 16,000	(\$19,000)	(\$2,500)	\$3,300	\$2,500

Cape Elizabeth EV Charging Stations

- Energy Committee would like to submit two applications to the Efficiency Maine rebate program
- One site at Community Center – Networked – 4 Charging Plugs - Requiring 4 Existing Parking Spaces
- One site at Ft Williams – Networked – 4 Charging Plugs - Requiring 4 Existing Parking Spaces

Cape Elizabeth EV Charging Stations

- Energy Committee Requesting Permission from Town Council to Proceed with the Applications
- This is not a commitment to purchase or proceed with the project
- Town can accept (or reject) the award(s) and approve the project(s) after final prices are obtained.