

**Town of Underhill
ARPA Funds Application: Phase 1**

Committee/Group/Individual Requesting Funding: Underhill Energy Committee

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Date: January 20, 2023

Proposal Name/Brief Description: Install EV Service Equipment (EVSE: charging station) at Town Hall.

This project is to install a dual-port Level 2 EV charging station at Town Hall. Although it is intended as a companion project to the TH EV proposal, it would also provide both a public outlet at all times and have stand alone value for public use and EV promotion. It is intended to be non-networked (i.e. not charge for power) since available data indicate that networked stations frequently cost more to operate than the recoup and also suffer higher outages/down time.

- Underhill is committed to reducing the carbon footprint of the Town and its residents.
- Transportation is the single largest contributor to Underhill's carbon/energy footprint, representing ½ or more of each.
- By supporting/enabling the Town EV proposal, it enables the benefits of that proposal.
- Such a program would promote greater penetration of EVs into the Underhill transportation palette by both raising awareness of the ubiquitous availability of charging infrastructure and actually providing charging support for residents, e.g. while participating in activities at either Town Hall or Moore Park.
- This proposal is predicated on adequate upgrade to the Town Hall electrical service.

Estimated Cost/Description of Estimate Process (use the space here and attach additional pages and any supporting documents):

Per Norwich EV estimate:

Turnkey Installation	\$6,743	(not including service upgrade)
(less) GMP Rebate	(\$1,500)	
Net after Rebate	\$5,243	

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Please Answer the following questions by marking the answer in the space provided.

Benefit to Town of Underhill

Does this proposal

Yes No ?

Invest in the town without creating a need for additional revenue?	1		
Benefit a population that was disproportionately impacted by the pandemic?		X	
Benefit a population underserved prior to the pandemic?			2
Mitigate the effects of climate change?	X		
Improve or create infrastructure for water, sewer, or broadband?		X	
Align with the broad goals and priorities of the Town Plan?	X		

Feasibility of Project

Can this proposal

Yes No ?

Be fully planned, estimated, and obligated to the town budget by March 2024?	X		
Be fully completed and paid for by the end of 2026?	X		
Be completed within the constraints of local staffing shortages?	X		
Gain the support and approval of a majority of Underhill residents?	X		

Notes:

1. As indicated, this installation is intended to be non-networked (i.e., not charge for power). However available data indicate that networked stations frequently cost more to operate than the recoup and also suffer higher outages/down time, making this a better investment.
2. Although lower income residents are most seriously impacted by transportation deficiencies and uncertainties and would tend to benefit from both EV ownership and operation and could avail themselves of essentially free power at this site, high initial costs will make purchase of these vehicles difficult, at least in the short term, until a secondary market matures. It is not clear how this will balance out in the short and longer terms.