

EV Charging Stations - Jan 2 Town Board Meeting

- 1) Based on discussion at our last meeting, we recommend a 3 PHASE APPROACH
- 2) PHASE 1 would be to install EV chargers at Smith Park by Memorial Day
- 3) The goal of this meeting is to decide whether to initiate PHASE 1
- 4) No funding approval or commitment is required tonite
- 5) The Sustainability committee needs Board approval to engage ValueStack Energy
(paid only from grants if the projects are successful)

January 2, 2024



Proposed Hector EV Charging Project Phases

Phase 1 - Smith Park Overnight Chargers online by Memorial Day

Phase 2 - Decide whether to collaborate with Dandy on Fast Charger (s)

Phase 3 - review additional sites and overall EV strategy

- Municipal Building
- Post Office
- Library
- Mecklenburg FD
- Other?

Phase 1 - Chargers at Smith Park by Memorial Day

Jan 2

- Decide whether to initiate “no risk” steps
- Identify options for worst-case \$2461 shortfall

1Q

- Secure NYSEERDA grants (see page 5)
- Checkpoint on tax credits

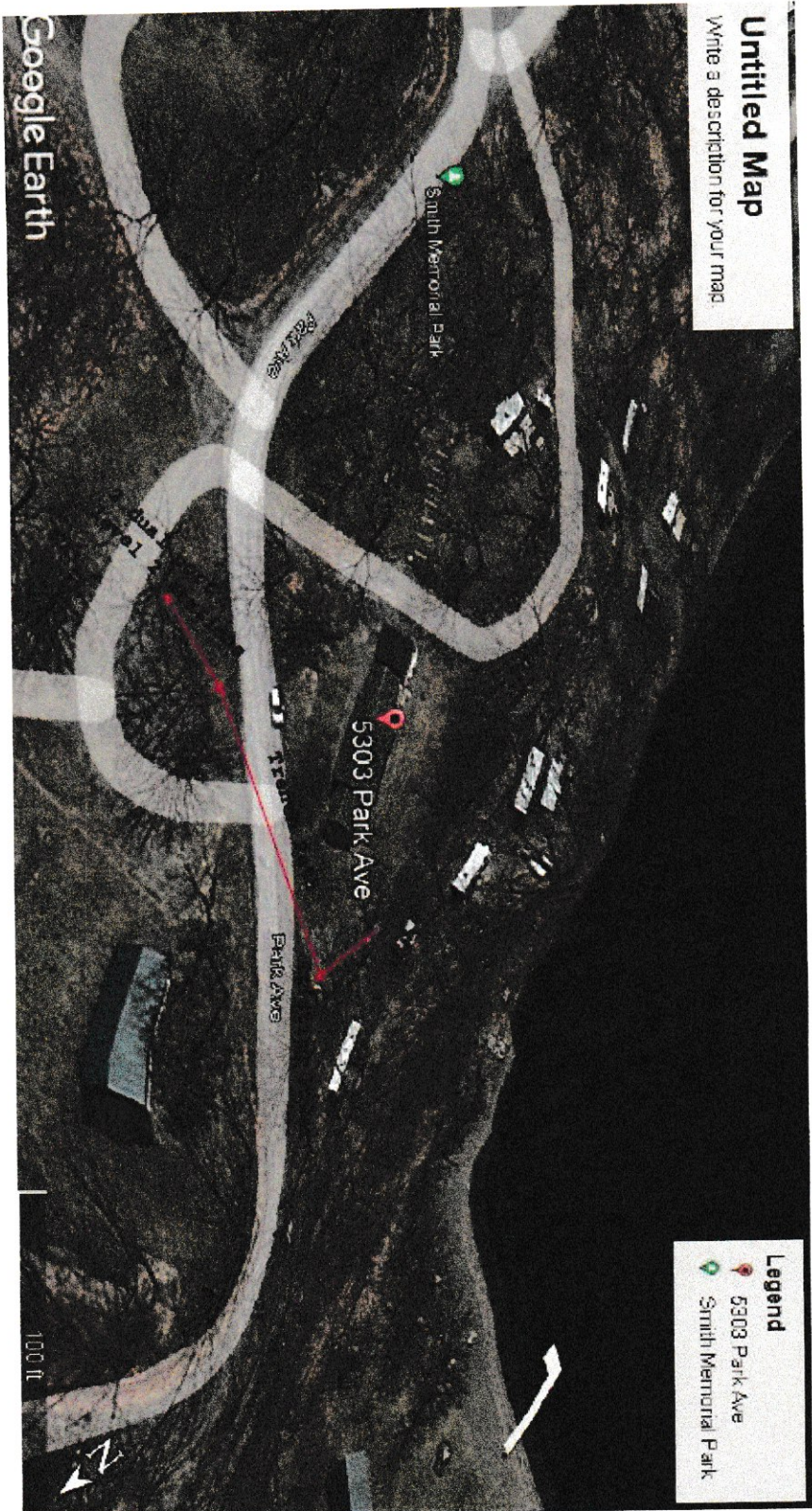
2Q

- Board approves final economics
- ValueStack and NYSEG site work

Memorial Day 2024


- target go-live

Smith Memorial Park – Shovel Ready



Phase 1 - Preliminary Economics (ex.Revenue)

EV Charging Station Project Financial Metrics

Locations and EV Charging Station Equipment*		Gross Cost	NYSERDA Charge Ready NY 2.0 Rebates	 NYSERDA Charge Ready NY 2.0 Program Rebates
Town of Hector Smith Memorial Park -- 2 Dual Port (4 Ports) Level 2 PowerCharge EV Charging Stations with 3-year Evoke subscriptions		(\$11,400)	\$0	
Project Subtotal: EV Charging Station Equipment w/NYSERDA Rebate:		(\$11,400)	\$0	
The projects include 3-year Evoke network annual subscriptions, a 8 x 3 x \$250 (\$6,000) value				
Locations with Turnkey Project Equipment and Infrastructure**		Gross Cost	NYSEG Make-Ready Program Incentives	
Town of Hector Smith Memorial Park -- Turnkey Installation of 2 Dual Port (4 Ports) Level 2 PowerCharge EV Charging Stations		(\$28,115)	\$25,200	
Project Subtotal: Turnkey Infrastructure and Installation with Maximum NYSEG Grid Make-Ready 90% Incentive Level:		(\$28,115)	\$25,200	
Project Total Customer Cost in Red/Total NYSEDA Charge Ready NY Rebate plus the NYSEG Make-Ready Program Incentives in Black:		(\$39,515)	\$25,200	
Turnkey Net Project Cost:		(\$14,315)		
AFVRPC Elective Poy (IRS Form 8911)			\$11,855	
Net Net Cost after Federal Tax credit:		(\$2,461)		



***The Inflation Reduction Act of 2022 includes a new category of tax credit provisions that allow municipalities and other non-profits, for the first time, to receive an Alternate Fuel Vehicle Refueling Property Credit (AFVRPC) through "Elective Poy."



Phase 2 - Possible Fast Charger Collaboration with Dandy

1Q 2024

- Decide whether Hector wants to pursue this
- Decide on an operating model
- Build project plan for board approval

2Q 2024

- solidify grants (see page 8)
- cost/benefit (see page 9)
- begin execution

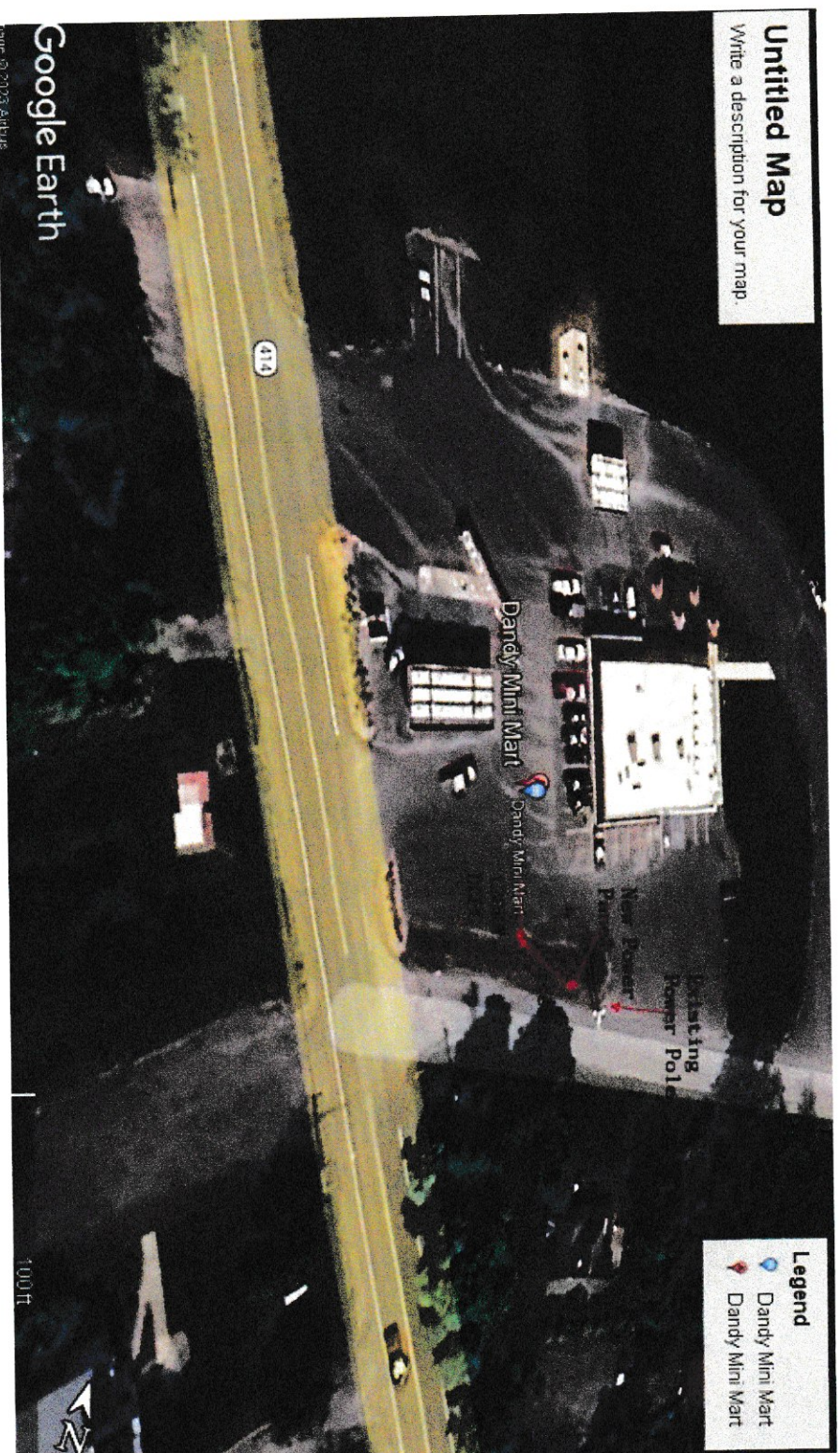
3Q and 4Q

- quarterly checkpoints

1Q2025




- go-live

Dandy Mart – Great Location for Fast Charging



Phase 2 - Possible Cost Structure

EV Charging Station Project Financial Metrics

Locations and EV Charging Station Equipment*		Gross Cost	Charge Ready NY 2.0 Rebates	 NYSERDA Charge Ready NY 2.0 Program Rebates
Town of Hector Dandy Mart – 1 Level 3 MAXICHARGER 180KW DCFC Station with two CCS1 plugs capable of simultaneous charging. Includes a 27" LCD screen which can be used for advertising purposes, and a robust 5-year parts and labor service.		(\$125,000)	\$0	
Project Subtotal: EV Charging Station Equipment w/NYSERDA Rebate:		(\$125,000)	\$0	
Locations with Turnkey Project Equipment and Infrastructure**		Gross Cost	NYSEG Make-Ready Program Incentives	 Turnkey infrastructure and installation work includes all service and electrical panel upgrades, wire, conduit, concrete bases, anchor bolts, protective bollards, site trenching, excavation, and restoration (including asphalt repair).
Town of Hector Dandy Mart – Turnkey Installation of 1 Level 3 MAXICHARGER 180KW DCFC Station with two CCS1 plugs capable of simultaneous charging. Includes a 27" LCD screen which can be used for advertising purposes, and a robust 5-year parts and labor service.		(\$130,000)	\$65,610	
Project Subtotal: Turnkey Infrastructure and Installation with Maximum NYSEG Grid Make-Ready 90% Incentive Level:		(\$130,000)	\$65,610	
Project Total Customer Cost in Red/Total NYSEKDA Charge Ready NY Rebate plus the NYSEG Make-Ready Program Incentives in Black:		(\$255,000)	\$65,610	 The Inflation Reduction Act of 2022 includes a new category of tax credit provisions that allow municipalities and other non-profits, for the first time, to transfer Alternative Fuel Vehicle Refueling Property Credit (AFVRPC).
Turnkey Net Project Cost:		(\$189,390)	\$151,512	
DEC ZEV Grant (Minus 20% cost share based on MHI over ~\$71K AFVRPC (IRS Form 8911) \$100K Cap Minus			\$76,500	
Net Net funding after DEC ZEV Grant and Federal Tax credit:		\$38,622		

Phase 2 - Possible Revenue Model

Simple DCFC Revenue Model*		2024	2025	2026	2027	2028	5-Year Totals
Number of Operating EV Level 3 DCFC Charging Stations		2	2	2	2	2	
Estimated charges per station per day		2	3	4	6	8	
Estimated average net revenue per charging session		\$23	\$23	\$23	\$23	\$23	
Estimated annual Driver Charging Revenue per day per EV Station		\$45	\$68	\$90	\$135	\$180	
Estimated annual Driver Charging Revenue per day all EV Stations		\$90	\$135	\$180	\$270	\$360	
Estimated annual Driver Charging Revenue all EV Stations		\$32,850	\$49,275	\$65,700	\$98,550	\$131,400	\$377,775

Model presented for making revenue projections, potential revenue floors and ceilings

Appendix

Background Material



Bill Gauthier is the President and CEO of JACOMB Lighting and a past President of the Association of Energy Engineers, Western New York. He is a Co-Founder of Value Stack Energy™, a strategic partnership created with the mission to help organizations achieve their Triple-Bottom Line goals as New York State transitions to a distributed, transactive, and integrated electric system.

Through years of dedicated service to clients across New York State, Bill and his colleagues have set the gold standard in analyzing, proposing and implementing energy infrastructure upgrade projects that satisfy operational needs while maximizing return on investment.

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Value Stack Energy™

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Jim Bittker is a Co-Founder of Value Stack Energy™, a strategic partnership with JACOMB Lighting.

Jim Bittker is an independent consultant in the energy efficiency and innovation space having worked on behalf of NYSEERDA outreach programs, NY utility energy efficiency programs, and with energy service companies where he's helped qualify, quantify and deliver more than 10,000 successful energy efficiency projects.

Jim was an early member of IUniverse and before that worked as an editor in higher education publishing, working with Paul Samuelson and William D. Nordhaus on their classic ECON 101 textbook. Paul Samuelson won the second Nobel prize awarded in Economic Sciences while Bill Nordhaus won the 2018 Nobel Prize for "for integrating climate change into long-run macroeconomic analysis."

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RESOLUTION SUPPORTING A REPAIR CAFE/COMMUNITY REPAIR EVENT

WHEREAS, the Town of Hector is a Bronze Certified Climate Smart Community in the New York State Climate Smart Communities program, and

WHEREAS, the Town of Hector desires to continue to pursue climate actions and achieve Silver Certification in the New York State Climate Smart Communities program, and

WHEREAS, as part of these efforts the Town of Hector supports effort to achieve Silver status by hosting community repair events to reduce waste, benefit the environment, and benefit the community as well as investigate opportunities to partner with other communities in the area,

NOW, THEREFORE, BE IT RESOLVED that the Town of Hector supports efforts to host community repair events and partner with other communities in the region to achieve these efforts.

Jan
mtyg.