

EV-Ready Cities

June 2021



Challenges and Opportunities for the Cities and Utilities to adopt Electric Mobility



charging networks, ability to participate in demand management and

Integrated Rewards and Incentives

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The convergence of mobility and energy



Grid management software is revolutionizing EV charging.

- Cleantech company based in Toronto specializing in grid management tech
- Global presence in 11 countries
- Work with public and private EV charging infrastructure



Get EV-ready with managed charging









Leverage technology to support and manage grid load through interconnected charging infrastructure.





HIEV technology offers the following optimization capabilities, removing barriers to widespread EV adoption and making cities smarter.

Competition		Ability to Work with any Charger	Direct Control of Charger	Utility Driven EV Programs	Customer Engagement Tools	Privacy Preservation, Data Immutability
EV Charging Manufacturers (ChargePoint, SemaConnect)	-chargepoin i. SemaConnect	×		×	Mostly Absent	×
Mobility Software Providers (Greenlots, Newmotion)	greenlots endots endots endots endots endots endots	×		×	Mostly Absent	×
Utility Customer Engagement Platforms (Opower, Bidgley)		WER	×	\checkmark	\checkmark	×
Telematics Solutions (FleetCarma)	O fleetcarma.	×	×			×
DERM Solutions Providers (Energy Hub)	*EnergyHub	×	×	~	Mostly Absent	×

Product applications for HIEV Technology

PUBLIC CHARGING

- Including public lots, workplaces, fleets, travel sites, and/or EV hubs
- Charging locations will be a mix of Level 2 and DCFC hardware with the back-end software supporting the deployments
- These sites may include energy storage integrated with renewables

MURBS, APARTMENTS, TOWNHOMES

- Including any shared parking spaces where there are open parking stalls
- A paired solution of a HIEV EVPlug and a non-networked charger or an OCPP networked charger with managed charging software on the backend



We can help you finance your EV infrastructure projects.

This Round Due June 22, 2021

Important milestone	Due Date			
Request for Proposals (RFP)	June 22, 2021 (23:59) EDT			
Letters of Conditional Approval (LOCA)	October 2021			
Signing of contribution Agreement	April 2022			
Project Start	No later than April 2022			
Project End date	No later than Dec 2024 Assuming the signing of the contribution agreement (CA) must be done by April 2022, the project timeline must show completion within 30 months* of the CA signature.			

Funding Assistance

NRCan's maximum contribution - Five million dollars (\$5,000,000) per project. The Program will pay up to 50% of Total Project Costs, up to maximum amounts as shown in the following table:

Type of Infrastructure	Output	Maximum Funding
Level 2 (208 / 240 V) connectors	Level 2 (208 / 240 V) connectors	Up to 50% of total project costs, to a maximum of \$5,000 per connector
Fast charger	20kW to 49 kW	Up to 50% of total project costs, to a maximum of \$15,000 per charger
Fast charger	50kW to 99 kW	Up to 50% of total project costs, to a maximum of \$50,000 per charger
Fast charger	100 kW and above	Up to 50% of total project costs, to a maximum of \$75,000 per charger

NRCan's maximum contribution - \$5,000,000 per project.

Eligible expenses

Approved Budget (\$)	2021-2022	2022-202	23	2023-2	024	TOTAL (\$)
The Program (NRCan Contribution)	s -	s	-	s	-	\$0
ELIGIBLE EXPENDITURES						
Salaries and benefits	s -	S	-	\$	-	\$0
Professional services	\$ -	S	-	\$	-	\$0
Reasonable travel costs, including transportation, meals and accommodation	s .	s	-	\$	-	\$0
Capital expenses, including informatics and other equipment or infrastructure	s .	s		\$	-	\$0
Rental fees or leasing costs						
License fees and permits						
Costs associated with Environmental						
Assessments						
Overhead expenses directly related to the Project will be considered to a maximum of 15% of E ligible Expenditures	s .	s	-	\$	-	\$0
	\$0	\$0		\$0	2	I
Total E ligib le E xpenditures					\$0	
INELIGIBLE COSTS						
INE LIGIBLE E XPE NDITURE S						
Description 1 (specify & insert or delete rows as applicable)						
Total Ineligible Expenditures					\$0	
IN-KIND COSTS						
Description 1 (specify & insert or delete rows	Description 1 (specify & insert or delete rows as applicable)					
	Total In-Kind Costs					\$0
Total I neligible Costs					\$0	
TOTAL PROJECT COSTS						\$0



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> **ELOCITY** Optimizing a Connected EV World

HIEV's ultimate vision is to support the entire end-to-end value chain of EV charging.

