

Backgrounder

Additional Peak Power Partner Quotes

“At Hydro One, we are committed to meeting the needs of our customers and providing exceptional service. As a leader in the integration of clean energy resources, we are making smart investments in our electricity system to enhance power resiliency. Our partnership with Peak Power and the IESO will help us explore how this technology can lower costs and improve service for our customers.”

- Jason Fitzsimmons, Chief Corporate Affairs and Customer Care Officer, Hydro One

Additional Elocity Partner Quotes

“Toronto Hydro is excited to continue to play an active role in transportation electrification, which includes our partnership with Elocity on this EV charging pilot. We look forward to helping expand our efforts towards electrification and decarbonization. We believe EVs are the future of transportation.”

- Elias Lyberogiannis, Executive Vice-President, Planning and Chief Engineering and Modernization Officer, Toronto Hydro

“Waterloo North Hydro is pleased to partner on this project and advance how EVs can be integrated into our energy system to provide benefits to customers and system operators.”

- Jeff Quint, Manager, Customer Solutions and Communications, Waterloo North Hydro

Fast Facts

As the organization that plans and operates, Ontario’s electricity system, the IESO is preparing for the anticipated growth of transportation electrification and looking at new supply options to help meet that demand. EV batteries are a proven way to store energy produced during periods of low demand and release it when demand is highest. The projects announced today will demonstrate EV batteries’ ability to safely and reliably inject energy into Ontario’s energy system.

Here are some fact fasts about EVs in Ontario:

- In 2020, there was an estimated 51,000 electric vehicles (light duty cars) on the road in Ontario, a number expected to grow ten-fold by the end of the decade.
- 15 per cent of residential consumers in Ontario say they are very likely to purchase an electric vehicle within the next few years. (Ipsos research for the IESO)¹
- Another 15 per cent of commercial and industrial businesses say they have already installed an electric vehicle charging station onsite. (Ipsos research for the IESO)²
- A typical electric vehicle would need a five kWh charge to drive from Toronto City Hall to Mississauga City Hall, roughly the same amount of energy needed to dry two loads of laundry.
- Ontario has one of the cleanest systems in the world when it comes to carbon emissions per kilowatt-hour – as a result, an electric vehicle charged up in Ontario, produces only three per cent of the emissions produced by a similar car that runs on gasoline.

¹ Residential – n=800 Ontario residents aged 18+. (+/- 4.0 percentage points, 19 times out of 20)

² Commercial/Industrial – n=249 Ontario decision-makers in the Industrial and Commercial sectors (+/- 7.1 percentage points, 19 times out of 20)