

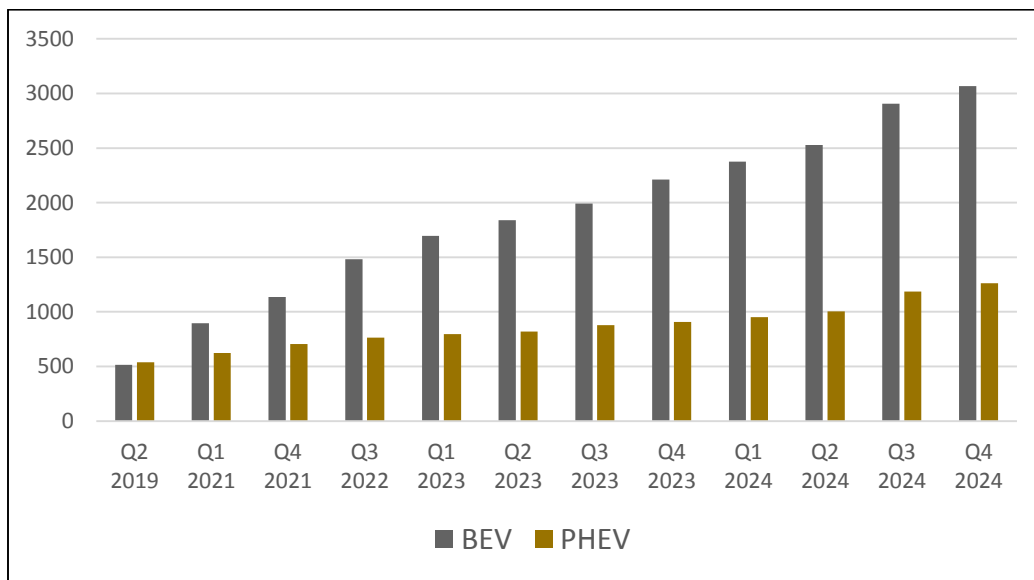
Appendix A to Report PWS-25-25

Electric Mobility Strategy Update

In 2022, the Electric Mobility Strategy was presented to Council, prepared in partnership with BurlingtonGreen Environmental Association. Supporting electric mobility was identified as a key action area in the City's Climate Action Plan. A progress update is provided below.

Electric vehicle ownership in Burlington continues to grow, particularly battery electric vehicles (shown below in grey), increasing over 500% since 2019.






EV Ownership – Burlington Quarterly



BEV = battery electric vehicles PHEV = Plug-in Hybrid Electric Vehicles





Source of Data: Ontario Ministry of Transportation





The following section provides a status update on the actions included in the Electric Mobility Strategy. The symbols highlight the status of each action. Although some actions may not be underway, in some cases, an external entity may be making progress on the initiative.






10 Actions		Completed
3 Actions		In Progress
10 Actions		Ongoing
10 Actions		Not Started
2 Actions		Will Not Proceed


1. Charging Infrastructure and Grid Capacity

A robust public charging infrastructure and a multitude of charging solutions are critical to ensure a smooth transition to electric mobility in the community. Charging solutions that reflect drivers needs and preferences are necessary to accelerate the rate of EV adoption. This section also focuses on actions and planning steps to ensure adequate grid capacity as more EVs are plugged in to charge.

Action	Lead	Update	Status
1. Charging Infrastructure and Grid Capacity			
1.1. Residential and workplace charging			
1.1.1 Explore opportunities to amend zoning and parking bylaws to support "EV Ready" requirements in new developments.	Community Planning	In Progress – EV ready parking standards are being considered for the Community Planning Permit By-law for Major Transit Station Areas.	
1.1.2 Develop an "EV Ready" best practice guide for new developments.	Environment & Energy (E&E)	Not Started – However, Pollution Probe and the Delphi Group collaborated on a Guide to Electric Vehicle Charging in Multi-Unit Residential Buildings, which includes references to new development and existing buildings.	
1.1.3 Explore opportunities to strengthen "EV Ready" items in Burlington's Sustainable Building and Development Guidelines.	Community Planning	Not Started – To be considered during the next review and update of the guidelines.	
1.1.4 Encourage multi-residential building owners, management companies or condominium boards to assess the feasibility to upgrade electrical infrastructure where required to support EV charging.	E&E	Not Started – Condo boards and building owners are finding the cost of upgrading electrical infrastructure to permit EV charging is often cost prohibitive. This is why it is important that new buildings are designed and built to EV ready standards. As noted above, there is a guide developed by Pollution Probe and the Delphi Group for multi-unit residential buildings that is a helpful resource.	





Action	Lead	Update	Status
1.1.5 Support homeowners with installation of EV chargers through HERO (Home Energy Efficiency Retrofit) program.	E&E	Will Not Proceed – The HERO zero-percent interest loan pilot program was concluded in 2025.	
1.1.6 Explore opportunities to support workplace charging.	E&E	Not Started – To date, Natural Resources Canada has provided funding for workplace charging through their ZEVIP (Zero Emission Vehicle Infrastructure Program).	
1.2. Public charging network			
1.2.1 Conduct an EV public charging network gap analysis to identify opportunities to increase and prioritize EV chargers on City property, including: a) Assess and explore opportunities for publicly accessible community charging hubs in locations where home charging is not feasible. b) Prioritize the installation of DC fast chargers (Level 3) in City lots.	E&E	Completed – Staff have finalized the implementation of the last round of charging stations supported with funding from Natural Resources Canada. a) City owned charging stations are available to the public on City owned property across the community (burlington.ca/ev). Staff are monitoring usage to determine demand and potential gaps in service. b) Fast chargers have been installed in the downtown parking lot across from City Hall (Lot 5b).	
1.2.2 Explore opportunities to partner with the private sector to expand the public charging network.	E&E	Not Started – The private sector has invested in public charging infrastructure, such as the fast chargers located at Burlington Centre, the Tesla chargers at Mapleview Mall and the level two chargers at IKEA. Charging stations available to the public can be found on PlugShare and ChargeHub .	





Action	Lead	Update	Status
1.2.3 Engage Halton Region to support regional charging coverage.	E&E	Not Started – A regional approach to EV charging is not being contemplated at this time.	
1.3. Grid Capacity			
1.3.1 Work with Burlington Hydro to assess the impact of increased demand on the grid and determine the best strategies to mitigate.	E&E	Completed – Burlington Hydro presented their Sustainability Plan to Committee of the Whole (of Council) in July 2024.	
1.3.2 Monitor emerging technologies with potential partners for consideration as pilot projects.	E&E	Ongoing – Emerging technologies are considered for pilot programs, but implementation is dependent on feasibility of technology, procurement guidelines, and staff and budget resources. Demand management software to schedule bus charging efficiently is being considered for the upgraded Transit facility.	
1.3.3 Collaborate with Burlington Hydro to assess EV ownership data and identify neighbourhoods where the local distribution grid requires upgrading to ensure support for increased EV ownership and charging.	E&E	Ongoing – Assessment of demand due to transition to electric vehicles was incorporated into the Sustainability Plan for Burlington Hydro completed by Power Advisory in 2024.	
1.3.4 Partner with Burlington Hydro to set up a process to encourage/incent homeowners to advise when they have installed a charger.	E&E	Not Started – Further discussion required with Burlington Hydro on this action.	





Action	Lead	Update	Status
1.3.5 Support and advocate to the Province for the speedy implementation of a new ultra-low overnight electricity rate.	Burlington Hydro	Completed – Three electricity price plans are available to residents and small business customers, including Time of Use, Tiered Pricing, and Ultra Low Overnight Pricing.	

2. City Leadership

The actions in this section focus on City actions that support electric mobility through advocacy, growing the local EV market and leading by example.


Action	Lead	Update	Status
2. City Leadership			
2.1. Advocacy			
2.1.1 Advocate for a ZEV (zero emissions vehicle) mandate at the provincial level to spur the supply of EVs.	E&E	Ongoing – Advocacy has taken place through the Clean Air Partnership in the past (the City is a member of the Clean Air Council). The provincial government is investing in electric vehicle manufacturing.	
2.1.2 Advocate for continued incentives at the federal level and reinstating incentives at the provincial level.	E&E	Ongoing – Federal incentives for electric vehicle sales have ended. It is not expected that incentives will be re-instated at either the federal or provincial level.	
2.1.3 Share knowledge and experience with federal and provincial EV working groups to guide policy direction.	E&E	Not Started – The opportunity to participate in working groups has not occurred to date.	
2.1.4 Advocate to higher levels of government for policy to attract EV manufacturing to Ontario to support a local EV industry.	Halton Region Economic Development	Ongoing – The Ontario Government has been successful in attracting EV manufacturing by making investments in this sector.	






Action	Lead	Update	Status
2.1.5 Advocate for “EV ready” requirements / standards in new developments.	E&E	Ongoing – Although EV ready standards were removed from the Ontario Building Code in 2019, the Clean Air Partnership completed the report EV Ready Requirements for Municipalities in 2022 to assess municipal authority in Ontario to secure EV ready requirements. In Burlington, EV parking standards are being considered for the Community Planning Permit By-law covering Major Transit Station Areas.	
2.2. Support the local EV and E-micro mobility market			
2.2.1 Continue efforts to attract car-sharing and bike-sharing operators to Burlington and explore opportunities for them to increase the percentage of EV and/or e-bikes in their fleets.	Transportation Services	In Progress – discussions are taking place with companies providing these services. Transportation staff are reviewing the current bylaw restricting the use of e-micro mobility devices on multi-use trails to look for opportunities to remove potential barriers.	
2.2.2 Explore the feasibility of a bulk EV purchase program with other municipalities for the City fleet through the regional purchasing co-operative.	Roads, Parks and Forestry	Completed – Fleet has found success in purchasing hybrid/electric vehicles on their own as nearby municipalities are specifying differing assets at different times.	
2.2.3 Assess the feasibility of e-bike / e-scooter public charging (outdoor outlets) at strategic locations, with the co-benefit and consideration of accessibility standards for mobility scooters.	E&E	Not Started – Further discussion required on this action.	

Action	Lead	Update	Status
2.2.4 Explore opportunities to provide secure parking for micro mobility on City property. Encourage other organizations and businesses to consider providing secure parking for micro mobility.	E&E	Ongoing – The redevelopment of Bateman Community Centre will include secure indoor bike parking.	
2.3. City Fleet			
2.3.1 Accelerate the rate of electrification of the City's fleet and equipment.	Roads, Parks and Forestry	In Progress – Approximately 11 % of the City's fleet consists of battery electric and plug-in hybrid electric vehicles. Funding approved to acquire electric and hybrid buses.	
2.3.2 Update the Green Fleet Strategy.	Roads, Parks and Forestry	Completed – Approved in October 2023.	
2.3.3 Conduct a gap analysis to identify opportunities for staff training as the City's fleet transitions to full electric vehicles and equipment.	Roads, Parks and Forestry	Completed – The City has implemented safe job procedures for handling and storing handheld equipment and revised the uniform tender for EV work. The City's fleet staff is working with local institutions for refreshing current staff training for EV's.	

3. Education and Awareness



This section focuses on actions that spread awareness and knowledge, leading to better driver experiences and increased support for electric mobility.

Action	Lead	Update	Status
3. Education & Awareness			
3.1.1 Ensure that public chargers in municipal lots are clearly marked with attractive and informative signage.	E&E	Completed	

Action	Lead	Update	Status
3.1.2 Brand the City's electric fleet.	Roads, Parks and Forestry	Completed	
3.1.3 Establish an “Electric Mobility Hub”; a one stop shop for EV resources and support. Assess the feasibility of an EV Showcase as a component of the Hub.	E&E	Ongoing – BurlingtonGreen continues to engage the community on the benefits of electric mobility and hosts EV test drives in partnership with Plug’n Drive. The new EV chargers located at the BurlingtonGreen Eco Hub also provides an opportunity to showcase the benefits of electric mobility.	
3.1.4 Continue to collaborate with community and EV organizations to plan and host electric mobility events.	E&E	Ongoing – The City, BurlingtonGreen and the Sustainable Development Community continue to collaborate on events to promote electric mobility. The most recent event occurred on October 19, 2024, at Burlington Centre featuring Plug’n Drive, Scootie (e-scooter and e-bike share) and Vintage Iron retailer (e-bikes and e-scooters).	
3.1.5 Engage the development community and realtors to include “EV Ready” features on real estate listings.	E&E	Completed – Cornerstone Association of Realtors is updating its template to include whether a listing is EV ready and will encourage associations to do the same.	
3.1.6 Explore opportunities to collaborate with the private and nonprofit sector to deliver educational programs on low carbon transportation modes, including e-bikes and e-scooters.	Transportation Services	Ongoing – See 3.1.4. Support was provided by Transportation services and advisory committee volunteers.	

4. Equity and Accessibility

This section focuses on actions that ensure equitable access to charging infrastructure and electric mobility resources.

4. Equity & Accessibility			
Action	Lead	Update	Status
4.1.1 Prioritize the location of City owned EV chargers to ensure equitable distribution on City property across the community and with consideration of accessible design standards.	E&E	Completed – City staff continue to assess opportunities to install EV chargers across the community on City property. Barrier free design standards are used where space permits. It can be challenging at times to implement in existing parking lots due to the configuration of parking spots and adjacent land uses.	
4.1.2 Explore opportunities to offer incentives for the purchase of electric bikes and electric scooters. Consider criteria to direct incentives to specific sectors of the community (ie. low income and other vulnerable populations).	E&E	Not Started – Funding has not been allocated to this initiative.	
4.1.3 Develop engagement campaigns and promotional materials that target underrepresented communities to support their transition to EVs.	E&E	Will Not Proceed – EVs are still at a higher price point compared to gasoline powered vehicles. The City encourages transit ridership through fare programs. E-micro mobility options may also be more feasible for some users in the community.	