

CORRIDOR MAP META DATA:**MAP NAME: Electric Vehicle (EV) Charging Planning Map**

The Zero Emission Vehicle Infrastructure Program (ZEVIP) aims at addressing the lack of charging infrastructure in Canada, one of the key barriers to zero emission vehicle adoption by increasing the availability of localized charging where Canadians live, work, travel and play. NRCan has engaged Asset Market, a Canadian data analytics firm to develop this EV Charging Planning Map that provides a visual illustration of public EV charging needs across Canada and a quantitative estimate of how much charging is needed in each location.

The objectives of the map are to:

- Help the public, industry and government **explore what public EV charging is needed where** across Canada and to help **inform the policies, plans and programs** required to support the transition to electric vehicles.
- To **inform and encourage investment** in EV charging infrastructure where it is most needed.
- To provide a common tool and methodology to assess EV charging needs across Canada.

The Corridor Map describes EV charging needs of drivers travelling longer distances on Corridors, which include highways and major roads, those within the National Highway System and select other long-distance inter-community roads in Canada identified in collaboration with provinces and territories.

Roads are divided into segments of approximately 5km. For each segment, charging needs are evaluated over a longer road segment (the “Extended Segment”) which considers charging needs and availability in each direction from the segment.

The Map provides information for each segment:

- **Score**, which provides an indicative rating of the need for additional public EV charging. Scores range from 1 to 5. A higher score represents a stronger need for additional charging.
- **Estimated Average Demand** estimates the charging needs of EVs travelling that segment. This is based on average annual traffic volumes, current and forecast EV adoption, average vehicle mileage, and the proportion of charging likely to be needed while travelling corridor versus at home or other locations.
- **Existing and Planned Infrastructure** includes EV charging capacity along the Extended Segment within 1.6km of either side of the road. This utilizes existing

public chargers on NRCan's Station Locator, plus planned public EV chargers from NRCan's previously awarded ZEVIP program and those funded by the Canada Infrastructure Bank.

- ***Estimated Required Capacity*** includes the EV charging capacity needed to meet the sum of the Estimated Average Demand for all segments included in the Extended Segment. It is adjusted to account for typical utilization rates and charging performance.

NRCan intends to update this map on a quarterly basis.

Questions on the Maps can be directed to ZEV-infra-VEZ@nrcan-rncan.gc.ca

To optimize web performance when using the map, it is recommended you zoom into the areas you are exploring.