

Vehicle Efficiency and Cost Calculator

Information for Plug-In Hybrid Vehicles – All-Electric Kilometres

Users must enter the total number of all-electric kilometres they expect to drive each year, which is a function of their vehicle's all-electric range. If the user regularly drives less than their daily range, they are primarily using the all-electric mode.

For the following examples, the 2017 Ford Fusion Energi is used, with an all-electric range of 35km (see Advanced Technology Vehicles PDF for additional information).

Example 1: For users that drive approximately 30 km per day, virtually all of their kilometres will use the all-electric range. Users can choose to use the total annual kilometres driven as their total number of all-electric kilometres. ($30\text{km} \times 365 \text{ days} = 10950\text{km} = \text{total annual kilometres AND total all-electric kilometres}$).

Example 2: For users that drive approximately 50 km per day, only 35km per day will be in all-electric mode, as 35km is the maximum battery range. ($50\text{km} \times 365 \text{ days} = 18250\text{km} = \text{total annual kilometres}$, $35\text{km} \times 365 \text{ days} = 12775\text{km} = \text{total all-electric kilometres}$)

In Advanced Technology Vehicles testing by NRCAN, most vehicles did not use any gasoline for electric mode operation. However, depending on how users drive the vehicle, they may use gasoline during electric mode operation following a full charge. This calculator assumes that no gasoline is used for electric mode operation. In addition, these examples assume the same number of kilometres every day, which may not reflect user driving habits. Users may choose to vary their estimated all-electric kilometres based on their individual situation.