

# EV Service

## Static and dynamic EV charging station information

### Overview

As more drivers begin to use electric vehicles (EV), EV charging stations have become increasingly important. EVs have all-electric ranges that are shorter than those of combustion engines. Given these limited driving ranges, many drivers suffer from range anxiety – a lack of comfort and increased stress from not knowing whether they will have access to compatible charging stations or have enough range to reach their destination.

The TomTom EV Service seeks to reduce this anxiety by providing global coverage of static and dynamic EV charging station information. With information about real-time availability, charging station brand and operator names, connector type, opening hours, payment methods, station accessibility, and address information, the service helps drivers to make informed decisions about charging their car. The EV service makes the driving experience less stressful and more enjoyable.

### Features

### Benefits

Delivers extensive, global coverage

Assures that users can locate a static or dynamic EV charging station whenever needed

Access to information about the availability of real-time charging stations, as well as connector type and compatibility, opening hours, payment methods, and location

Enables users to choose the optimal charging station, avoiding stations that are already fully occupied

Map shows charging stations near planned routes

Allows EV drivers to complete pre-journey planning to choose the most suitable charging stations

Locations are delivered in WGS84 format

Provides exact geo-coordinates of charging station locations, including entry coordinates for navigation related use-cases



## End-user benefits

The TomTom EV Service benefits drivers of electric vehicles, allowing them to:

- Choose stations that are compatible with their car, and match their schedule and preferred payment methods
- Check which stations are available or occupied to avoid unnecessary driving searching for an open charging port
- Conduct trip pre-planning to choose the most optimal charging stations along the way

## Product formats

TomTom EV Service is available via hosted (server-to-user) TPEG2-over-HTTP standard using the TPEG2-EMI and intermediate (server-to-server) API feeds.

## Sample applications

Sample uses of the TomTom EV Service might include:

- EV charging station service providers can identify areas that are underserved and lacking charging stations, or alternatively areas that are always occupied and would benefit from an increased number of charging stations
- Businesses can make smarter choices about their location to be near charging stations, making it easier for clients to reach them and for employees to charge their cars
- EV owners who are looking to find housing can determine if there are suitable charging stations nearby

