



e-Mobility in Finland

The current focus areas and main achievements and developed focus areas of e-mobility in Finland are summarized in the following. The summary is based on the mobility stakeholder analysis report¹ made by the BSR-electric project in 2018.

- **e-cars:** The Finnish government has decided to support the purchase or leasing of new fully electric cars. Buying a full-electric car or leasing one for a long term is supported by EUR 2.000 subsidy under a fixed-term act which is in force between 01.01.2018 and 31.12.2021. The maximum acquisition price for the electric car is EUR 50.000, including VAT and car tax and. The proposal promotes the aims of the Government Programme project on bioeconomy and clean solutions. There are incentives for e-vehicles such as 50% reduction of parking fees in the City of Helsinki. National level policies promote the low-emission transportation. The charging infrastructure has been developed mainly by commercial operators (e.g. Helen and Fortum) and primarily on a

¹ <https://bsr-electric.eu/materials>

market basis. E.g., Helsinki demands e-mobility charging with certain conditions, when giving building permissions. The market share of e-cars is presently low but increasing.

- **e-buses** – Major cities are promoting the sustainable modes of transportation in Finland, which is connected to, e.g., the national and regional strategies for carbon neutrality (e.g. carbon neutral Helsinki by 2030). The Helsinki greater area (including the cities Helsinki, Vantaa and Espoo) is preferring the e-mobility in city's public procurement, which has recently led to purchase of 30 e-buses to Helsinki greater area. E.g. bus line 1 in Turku and certain bus lines in cities Espoo and Kerava (operated by HSL in Helsinki greater area) are or will be operated by fully electric buses soon. A domestic e-bus manufacturer Linkker is operating in Finland and has delivered buses to cities. Autonomous e-bus pilot for a fixed term has been done in Espoo (SOHJOA).
- **e-bikes** Within BSR-Electric project, Helsinki Regional Environmental Services is implementing a e-biking promotion campaign called "Virtaa Fillariin" (~Electricity to bike). The objective is to promote e-biking as an alternative to family's 2nd car. The campaign is implemented in 2018 and 2019. Helsinki energy company Helen is providing a free charging station for electric cyclists in Helsinki. However, the amount of e-bikes in general is not high.
- **e-logistics** – There is a small amount of piloting of e-vehicles in Vantaa Aviapolis and Helsinki Jätkäsaari areas. However, the amount of e-vehicles is minor compared to total vehicles in the logistics sector.
- **e-scooters** – European-based commercial operators will initiate mobile phone app-based e-scooter hiring in Helsinki in 2019.
- **e-ferries** – There are electric ferries operating in Turku and it's surrounding archipelago. Turku's landmark river ferry Föri has been newly modernised from diesel to electric motor and it carries people across the river free of charge in Turku.

Key development topics in Finland

There are lot of plans and visions in Finland when it comes to e-mobility, but still the actual implementations are somewhat rare (despite the e-cars charging system which has been developing nicely as market-based development). E-bikes are still rare in Finland, even though their role as low-emission transportation is recognized. Good examples though exist – such as

Turku e-busses and e-ferry Föri, as well as how Helsinki Region Transport (HSL) is providing 12 e-busses from Linkker for transportation operators to test and educate the drivers with.

A more detailed analysis of different e-mobility solutions, experiences and best practices in the previously mentioned 8 countries is available at <https://bsr-electric.eu/materials>