Electric vehicle charging infrastructure statistics in Hungary

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The number of electric passenger cars and public electric charging stations

Source: MEKH and Ministry of the Interior
Data collection: institutional and legal background

- The data owner of the charging infrastructure is the Hungarian Energy and Public Utility Regulatory Authority (MEKH)
  - the regulatory body of the energy and public utility market
  - competences of MEKH include the following: licensing, supervision, price regulation, supporting competition, energy efficiency and renewable integration, tasks related to national energy statistics, market monitoring, customer protection.
  - an official statistical body
Data collection: institutional and legal background

Act I of 1988 on Road Traffic (amended in 2019)

• Defines
  • the different actors (i.e. electromobility operator), concepts (charging station, -device, -point, public charging station)
  • the basic rules of the electromobility service

• Imposes obligation to provide data for the authority by the operators on a quarterly basis

• Public electric charging device may be operated only with a licence issued by the Hungarian Energy and Public Utility Regulatory Authority (MEKH)
What to count?

• charging station is an area containing at least two charging devices
  • charging device: electrical equipment that has at least one normal or high-power charging point.
    • electric charging point: the charging connector on the electric charging device, which is suitable for charging the electricity storage system of only one electric vehicle.
How to define public?

• Electric charging equipment operated on **public land**, **next to a public institution** building and in **public institution** customer parking lots, as well as at **public fuel filling stations**, which is **accessible without discrimination** under the identification, use and payment conditions defined for electromobility users, as well as electric charging equipment operated on **private land or public parking lots open to public traffic**, which is accessible to a limited range of electromobility users without payment or under specific payment conditions, including coastal electricity supply, excluding electric charging equipment operated in households. - *Act I of 1988 on Road Traffic*
Charging thresholds/capacity

Capacity of charging connectors by type (kW)

- number and capacity of each device's connection point

Source: MEKH
Electricity consumption of charging stations (kWh)

Source: MEKH
Number of public charges

Source: MEKH

- Number of AC charges
- Number of DC charges
Number of connectors by type

Source: MEKH
Geospatial location

- Coordinates of the locations are collected
- Published in a dedicated GIS application
- https://terkep.mekh.hu/elektromobilitas/
Public electric charging stations compared to the number of electric passenger cars, 2022
Publication activity

• MEKH – quarterly report and GIS application
• HCSO – annual report on transport statistics