Electromobility at Frankfurt Airport

**What progress have we made?**

The expansion of electromobility is gaining momentum in Germany. Fraport has been testing vehicles with electric-drive systems for many years and is contributing its own expertise to this important development. Our commitment is a key element of Fraport’s climate protection efforts and stands for modern, innovative, and future-oriented ground handling operations at Germany’s largest airport.

**Electromobility & the airport: a perfect match!**

Certain conditions – which Fraport AG’s operational areas offer in plentiful supply for many vehicle types – are required for the effective use of electromobility:

- Usage restricted to short distances (operating range is not a problem)
- Frequent waiting times during operations (interim recharging is possible)
- Extensive electricity supply (charging is readily available around the airport)
- Nighttime curfew can be used for longer charging times of e-vehicles

**Upward trend ...**

Despite significantly higher purchasing costs for electric vehicles (e-vehicles), airport operator Fraport is increasingly focusing on electromobility because ...

1) Electromobility helps reduce and avoid emissions of CO₂, air pollutants and noise.
2) Energy and maintenance costs for e-vehicles are often lower than for conventionally powered vehicles. Thus, economic viability throughout the product life cycle for specific vehicle types such as aircraft baggage loaders is already assured today.
3) “Stop and Go” operations and the 30 km/h speed limit on the apron present major problems for combustion engines.
4) Electromobility delivers tangible improvements in working conditions on the apron. As a result, e-vehicles are very well received by staff.

**14 % of Fraport’s vehicles at Frankfurt Airport (FRA) use electric propulsion.**

47 new e-vehicles (various types) were planned to be added to Fraport’s fleet by the end of 2019.

**[Diagram showing the distribution of e-vehicles]**

- Container loaders: 8
- Aircraft baggage loaders: 107
- Sweeper trucks: 2
- Passenger stairways: 3
- Minivans: 5
- PRM* transport carts: 3
- Electric forklifts: 53
- Container/pallet transporters: 1
- Baggage tractors: 14
- Pallet loaders: 15
- Aircraft baggage loaders: 107
- Pedelecs: 7
- Battery-only powered cars: 16
- Small electric tractors: 242
- Plug-in hybrid cars: 15

**Visit our website**

www.e-port-an.com

*Passengers with reduced mobility

**[Additional information about various electromobility projects at Frankfurt Airport]**

Various electromobility projects at Frankfurt Airport have been grouped under the E-PORT AN umbrella brand. The goal of the program partners – Fraport AG and Lufthansa Group – is to test and improve pilot models in everyday operations and to develop them to market maturity.

86 % conventional drive

14 % electric drive

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