

ERS Tender in France



EU: 30% reduction (vs. 2020) of CO₂ emissions for new trucks until 2030

In 2021: French Work Group on Electric Road Systems concluded **ERSis the best solution**:

- Large reduction of battery capacity VS big battery truck (- 75%)
- TCO equivalent to diesel trucks
- Bigger range and no charging stops → Less standby time
- CO2 impact:
- **86% reduction** for HD and LCV in comparaison to Diesel trucks
- 64% reduction in comparaison to big battery trucks

French government road map:

- → ERS on 4950 km until 2030 (red), followed by 3950 km until 2035 (black).
- → Investment between € 30bn and € 40bn





ERS competiveness increases with number of users

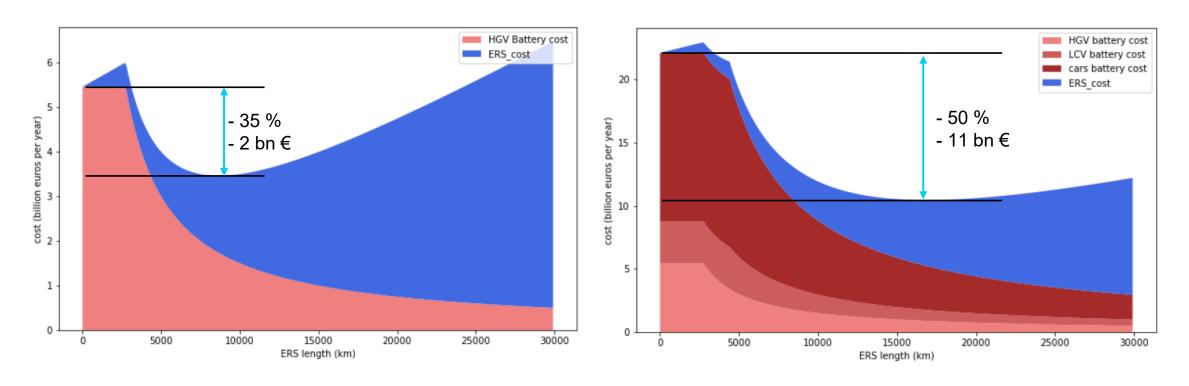


Figure 1. Total yearly investment cost including batteries and ERS as a function of the ERS length.

The electric road system: [...] Fabien Perdua, Pierre Chaniotb, Marc Raynalb, François Combesc,

Key Takeaway:

- ERS is originally expected to support HD
- LCV and casrs strengthen the renatbility dramatically



ERS Tender in Sweden

Sweedish government roadmap:

- **70% reduction** in climate emission from domestic transport (VS 2010) by 2030
- No emission of greenhouse gases in Sweden by 2045

This is only possible through major electrification of road traffic.

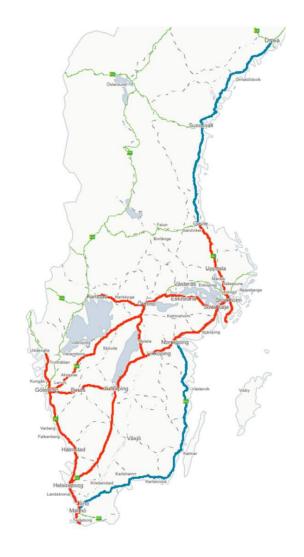
ERSdemonstrators (Overhead, Conductive Rail, Wireless) have been deployed since 20 lb to gather knowledge about **construction** and **maintenance** of ERS. Interoperability with other (static) charging solutions is beneficiary.

→ Now starting a Call for Tender for a 2 x 21km ERSsection. It will be Sweden's first permanent electric road.

Key Takeaway:

- Focussing on domestic transportation
- LCV are also relevant to achieve CO2 reduction
- Interoperability with static charging solutions will be helpful







R&D for road deployment is ongoing supported by Gov 't entities

Various Pilots include HD, LCV and Cars as well as dynamic and static WPT

Big programs require a big industry



dura BASt, Köln



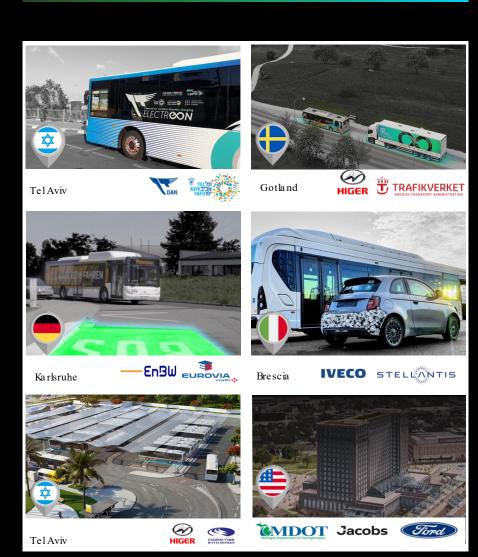








The Autobahn, Bavaria





Groupe de travail n°1

Décarboner le transport routier de marchandise par l'ERS, enjeux et stratégie

Juillet 2021

France: 9000 km, ~\$40bn

National roadmap for electric road systems

TRAFIKVERKET

Sweden: 1500 km, ~\$7bn

Multiple National Tenders active or in preparation.



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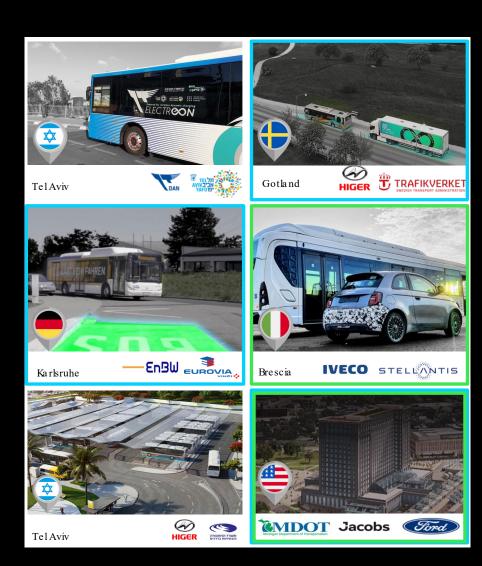








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Hope to see you all at USU! electreon