



Preparing for National Deployment of Dynamic Charging in Europe

Presentation at CERV on Feb 6
Park City, Utah

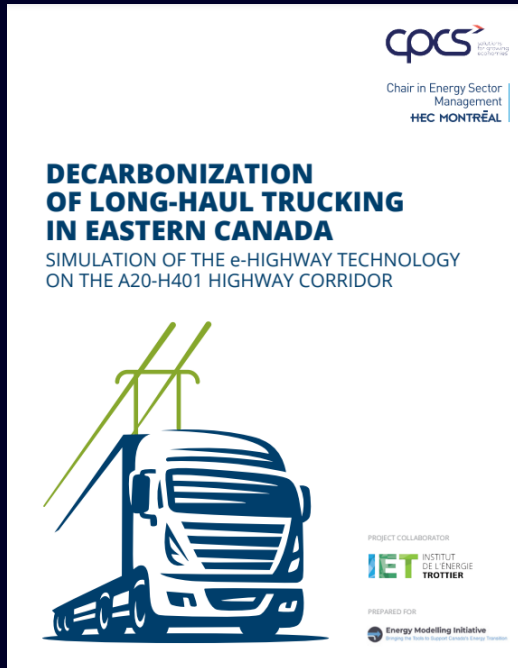
SIEMENS

Play 10 second video clip

Preparing for National Deployment of Dynamic Charging in the EU - Motivated by a strong economic case for dynamic charging of trucks

Dynamic charging of trucks via a catenary electric road system would be the by far cheapest option, and with the least uncertainty

Source: <https://www.itf-oecd.org/decarbonising-europes-trucks-minimise-cost-uncertainty>

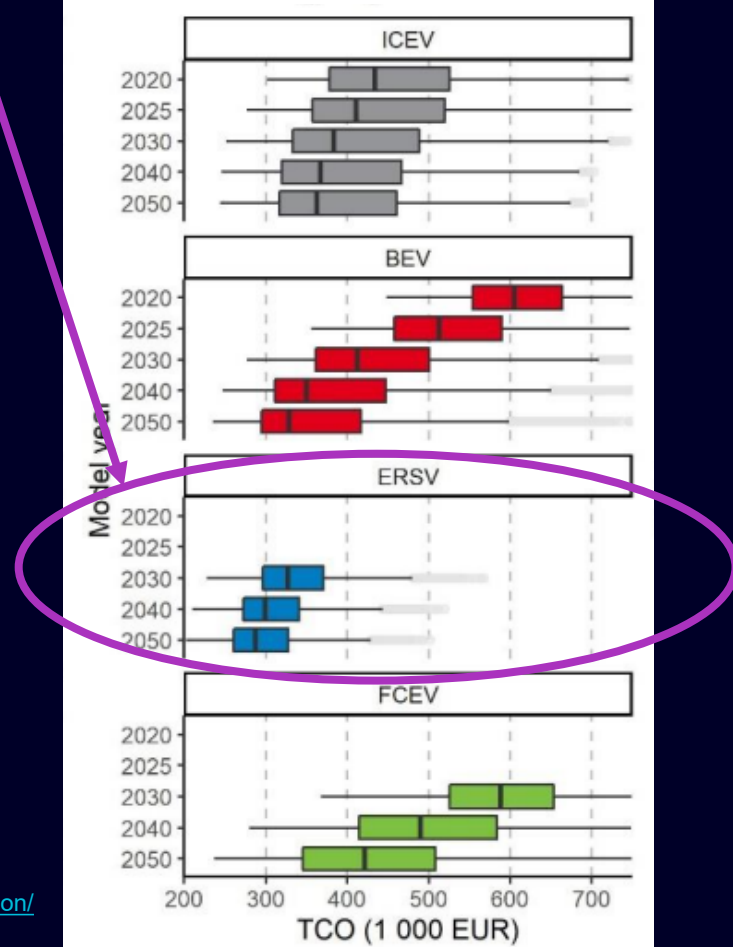


Source: <https://energie.hec.ca/canada-ehighway/>



Source: <https://www.csrf.ac.uk/2020/07/white-paper-long-haul-freight-electrification/>

TCO for semi truck >16 tons 4x2



Preparing for National Deployment of Dynamic Charging in the EU

Question:

What process, agreements, and technologies are required to move from pilot and demonstration projects to effective ERS deployments?

and

How might the current projects (European or other) serve as examples (or learnings) to keep momentum moving and gain decision maker confidence to making commitments to ERS?

Preparing for National Deployment of Dynamic Charging in the EU

What process, agreements, and technologies are required to move from pilot and demonstration projects to effective ERS deployments?

- If we are serious about reaching the climate goals, deployment is an increasingly crucial aspect
- We need urgency to take effective measures today
- Further research is still important
 - But cannot keep us from acting now
 - High-risk strategy to rely on future solutions

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What process, agreements, and technologies are required to move from pilot and demonstration projects to effective ERS deployments?

- Mature Technology is Needed
 - Proven Feasibility Over Years/Decades
 - Required Know How is Available Globally
 - Not Proprietary
 - Based on Global Supply Chain

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What process, agreements, and technologies are required to move from pilot and demonstration projects to effective ERS deployments?

- Deployment Likely a Change of Ecosystem
 - Involves all Relevant Stakeholders
 - Requires both Private Technology Providers & Public Road Owner
 - Main Critique of ERS is Dependancy on Slow Governments

Preparing for National Deployment of Dynamic Charging in the EU

How might the current projects (European or other) serve as examples (or learnings) to keep momentum moving and gain decision maker confidence to making commitments to ERS?

- The Current Projects Show the Maturity of the Dynamic Charging Technology

Dynamic charging of trucks has demonstrated its maturity within the German field trials

Information and routing

Federal State of Hessen

Federal State of Schleswig Holstein

Federal State of Baden-Wuerttemberg

Track length/
amount of trucks 17 single-track km
5 +7 trucks in [Spring 2023](#)

10 single-track km
5

5 single-track km
5

Construction Apr – Nov 2018

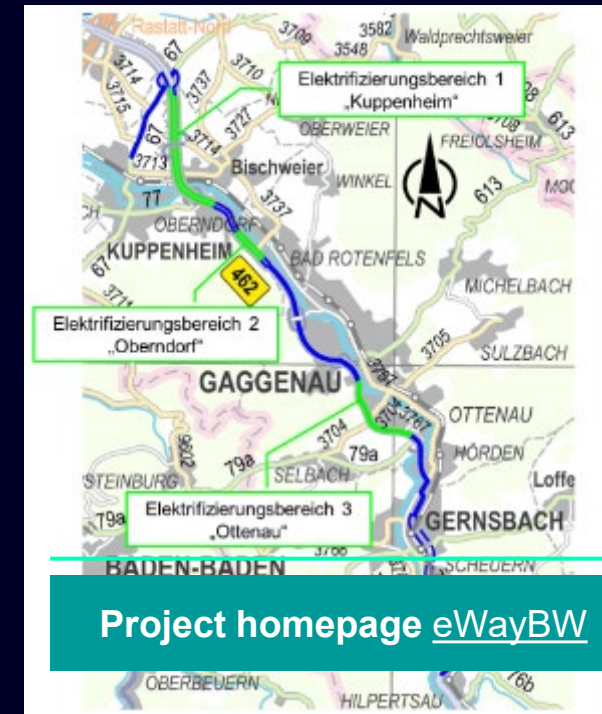
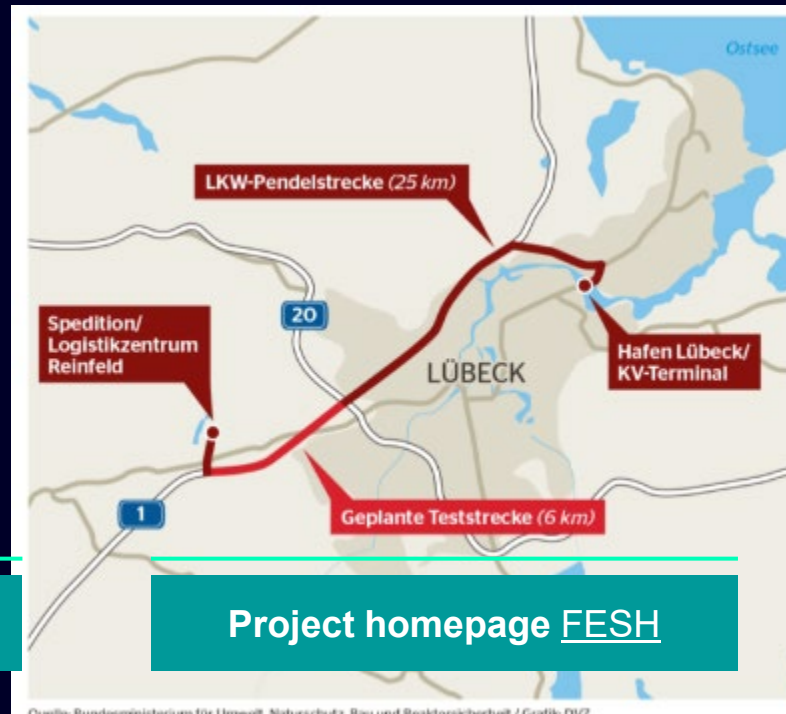
Oct 2018 – May 2019

June 2020 – April 2021

Demonstration Started in Dec 2018

Started in Dec 2019

Started in June 2021



More information on field trials available : <https://www.ifeu.de/publikation/current-technical-findings-on-the-ehighway-system-from-field-tests-and-accompanying-research-in-germany/>

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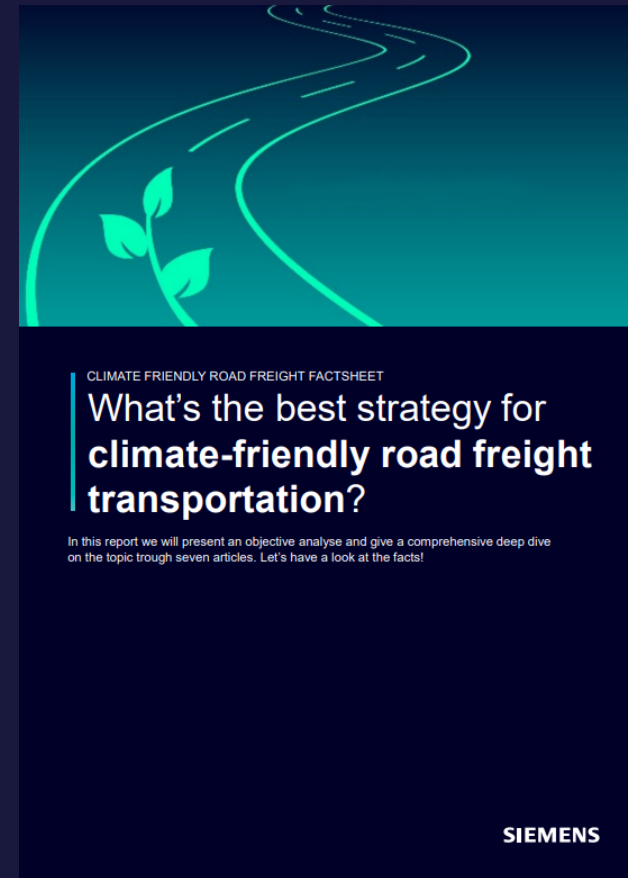


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Factsheet for climate-friendly road freight



Available [online](#)