



Swedish Electromobility Centre

Electric Drives & Charging



UPPSALA
UNIVERSITET

Prestudy for theme 2 in SEC, spring 2026: Electromagnetic interference from power electronics in electric vehicles

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- Higher frequencies and voltages reduce losses
- Also emit higher electromagnetic interference (EMI)
 - Drawbacks include reduced power quality, efficiency and reliability.

Project proposal

- Map current Electromagnetic (EMI) and Electromagnetic compatibility (EMC) expertise, facilities, and tools within Uppsala University and national partners.
- Identify knowledge gaps and evaluate industrial demand for improved EMI.
- Propose research directions and collaboration models to address key technical challenges.

