

FLEX – Finding the Limits of EV ⇔ X

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Partners: VTI (owner), LTH, Chalmers

Industry partners: Volvo Cars, Zeekr

Alter supplying:

- Amplitude
 - Frequency
 - Phase
 - Harmonic dist.
 - Grid impedance
- by emulating a grid with a power electronic converter in order

to investigate behavior of EVs in power electronic based micro grids. Charging of the Evs is primarily investigated, V2G if supported by vehicles.

Duration: 1/7 2025 – 31/12 2026

SEC cash funding: 800 kSEK

WP1: Literature study (VTI)

WP2: Modeling & simulation (VTI)

WP3: Experimental prep (LTH)

WP4: Exp. measurement (VTI)

WP5: Model validation (VTI)

WP6: Manegement (VTI)

