

V2G to manage variations in the electricity system – environmental performance

This project aims to combine energy systems modeling and grid simulation with life cycle assessment to evaluate the environmental performance of V2G.

How will the electricity system composition change depending on scenarios with and without V2G?

What are the effects on the need for generation, storage, and transmission capacity in the electricity system?

Some preliminary figures of the exceedances of transformer capacities in the LV grid due to EVs when assuming different charging strategies are shown below

