V2G-Quests

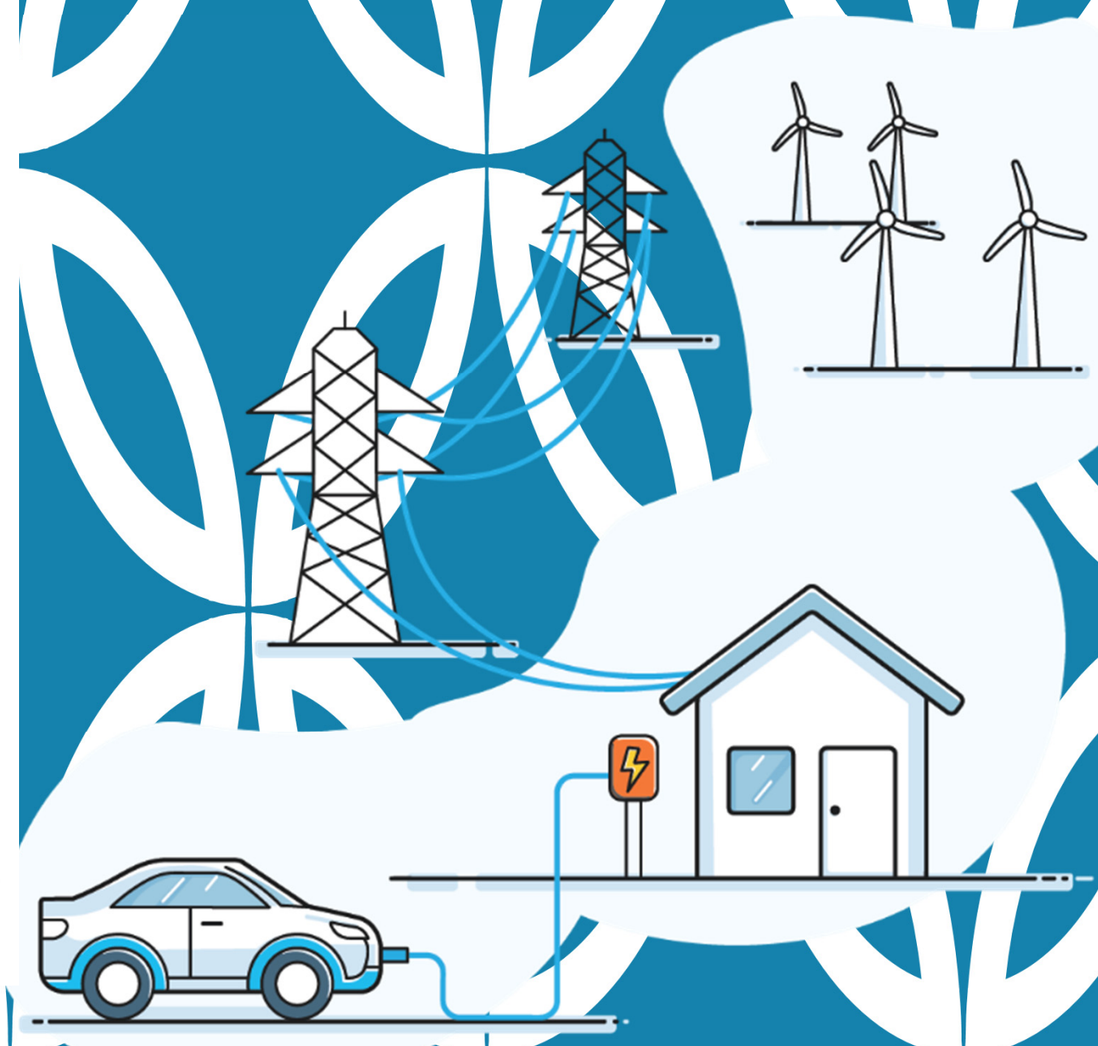
Vehicle to Grid for Equitable Zero-Emission Transitions in positive energy districts.

- V2G-QUESTS contributes to the creation of inclusive positive energy districts (PEDs) by strengthening the power-balancing capacity of private and shared electric vehicles (EVs) in thus far EV-poor areas.

- These vehicles can be used as one big battery to tackle intermittent energy production and consumption in urban areas through the concept of Vehicle-to-grid (V2G), which is being assessed in several pilots.

- **However, for V2G to positively affect the power network, it will have to be adopted at different geographies and socio-economical strata. Energy production and consumption are everywhere, not just in locations where higher-income people who can afford EVs live.**

- In V2G-QUESTS we will therefore work in a multidisciplinary team to bring electric mobility and the concept of V2G into disadvantaged and typically excluded communities, therefore contributing to both mobility and energy transitions in PEDs.



Sustainability

V2G-QUESTS advances sustainable urban mobility by integrating electric vehicles with the grid to optimize renewable energy use and reduce carbon emissions.

Behaviour

Exploring societal engagement, V2G-QUESTS addresses behavioral insights to drive the adoption of V2G technologies, making sustainable mobility accessible and attractive to all.

Resiliance

Enhancing grid resilience, V2G-QUESTS enables electric vehicles to balance energy supply and demand, ensuring reliable power in fluctuating renewable energy scenarios.

Case-study based

Aveiro, Portugal
(District of Aradas)

Utrecht, The Netherlands
(District of Kanaleneiland)

Tartu, Estonia
(District of Annelinn)

Partners

DUT Driving Urban Transitions

Co-funded by the European Union