

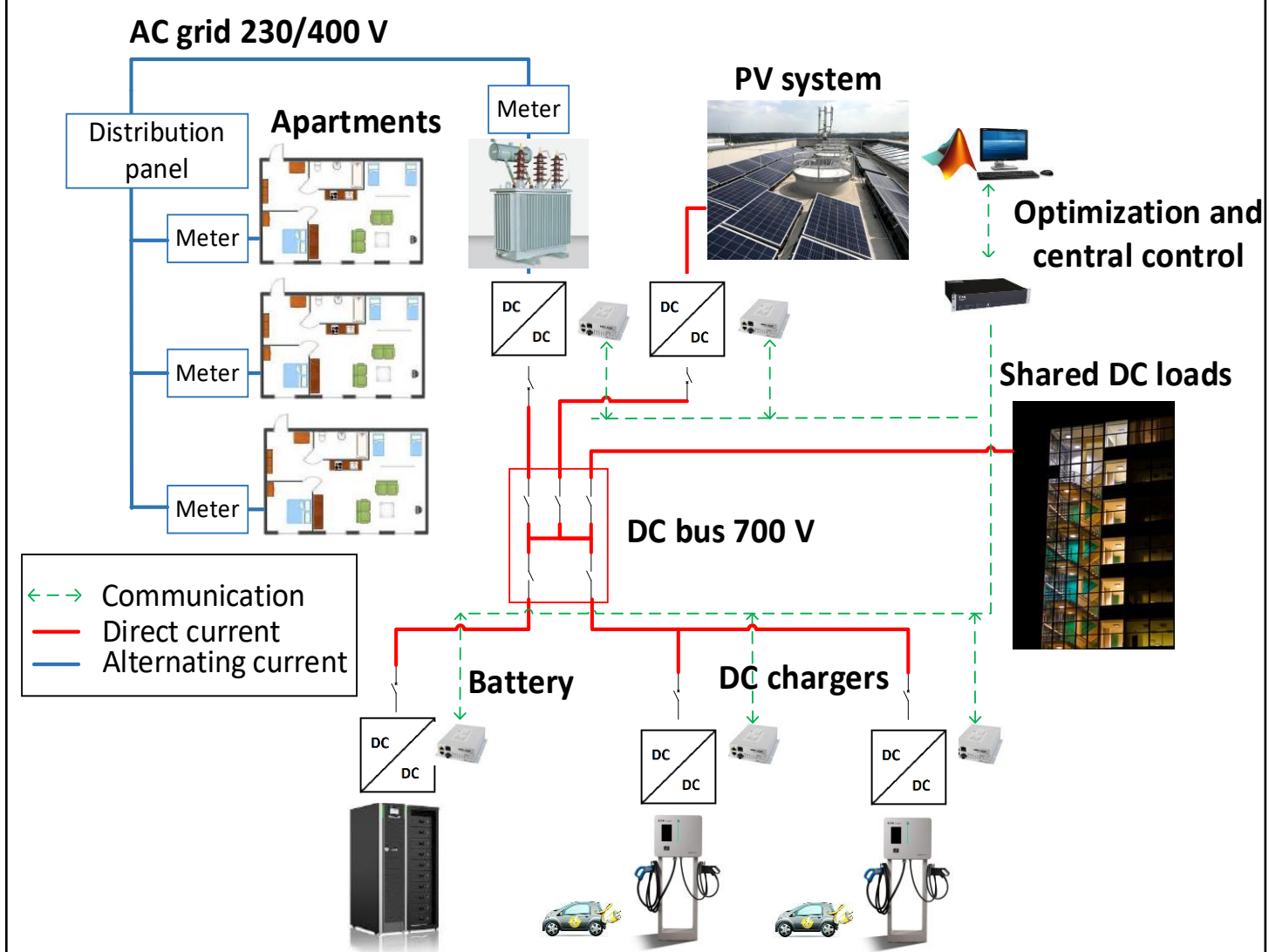
## Background

Reference design and control strategies for hybrid AC/DC microgrids with 700 V DC bus have been largely investigated by the research lab team of the EATON European Innovation Center. The team's activities are focused on the technology research to enable efficient operation and optimal control of low voltage AC and DC grids, for a sustainable energy transition.



Eaton European Innovation Center

## Use case application



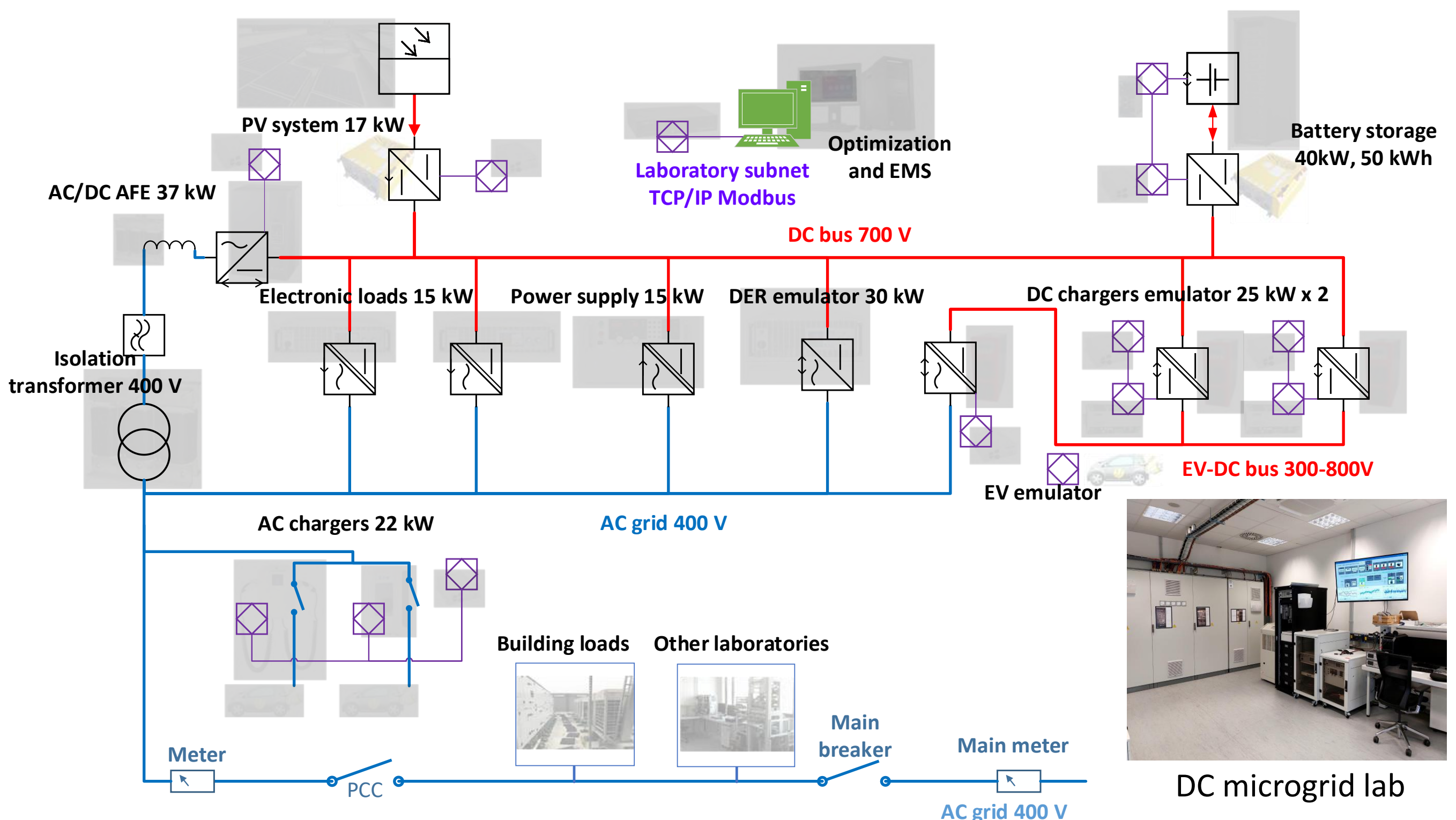
## Goals and objectives

- Development of an AC/DC microgrid for apartment building with shared EV chargers
- Scalable distributed and hierarchical control system for the DC grid
- Follow-up: DC microgrid project demonstrator

## Achievements

- Realization of lab demonstrator of the microgrid with integration of PV, battery, EV charger emulators and loads on the 700V DC bus
- Design of control system, graphical interface and testing environment

## Laboratory implementation and testing



DC microgrid lab