

INTEGRATION OF EVs WITH EXISTING DISTRIBUTED ENERGY RESOURCES IN FINDHORN ECOVILLAGE

Case Description:

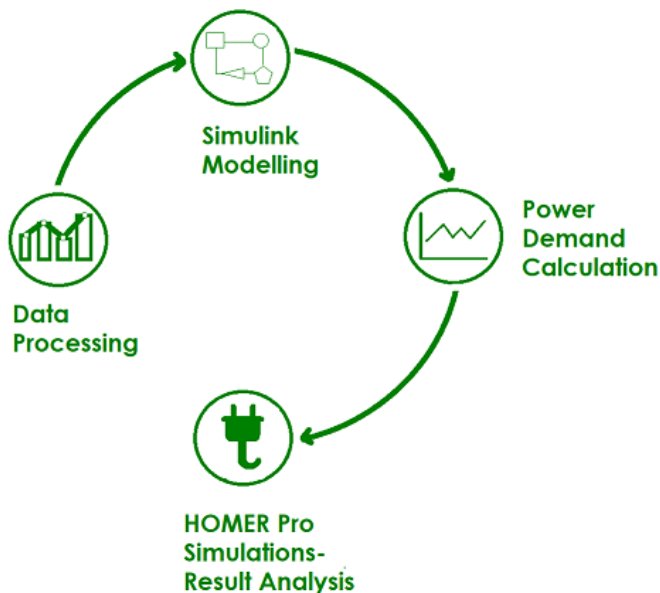
- Findhorn has the lowest ecological carbon footprint than any other place in industrialized world.
- Community that is net exporter of electricity from Renewable Energy Sources - EV adoption is on early stage.
- A study of future EV adoption for different scenarios
 - Simulation of additional generation/storage after EV adoption.



Aim: To study the effect of EV adoption on the electricity demand/generation in Findhorn Ecovillage.

Outcomes:

- Charging demand profiles for Findhorn Ecovillage for different EV adoption rates, charging strategies.
- Modelling of the EV demand on energy surplus, imports.
- Simulation of the existing storage effect on demand profile.
- Investigation on alternative pathways to cover the increasing demand.
- Additional RE generation to remain a net exporter of electricity.



geor.papoutsis@gmail.com



mcarthur.craig@gmx.co.uk



pisokonstantinos@gmail.com



marinosm16@gmail.com