REScoopVPP: together towards Smart Communities

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Our ambition

"The REScoopVPP project wants to create the most advanced

community-driven smart building ecosystem for energy communities."





























www.rescoopvpp.eu



HOME NEWS & EVENTS ABOUT PILOTS PARTNERS CONTACT



REScoopVPP

The main aim of REScoopVPP is to set-up a community-driven virtual power plant that can actually provide flexibility services to the grid and contributes to a 100% share of renewable energy sources into the grid.



Start - June 2020



12 project partners

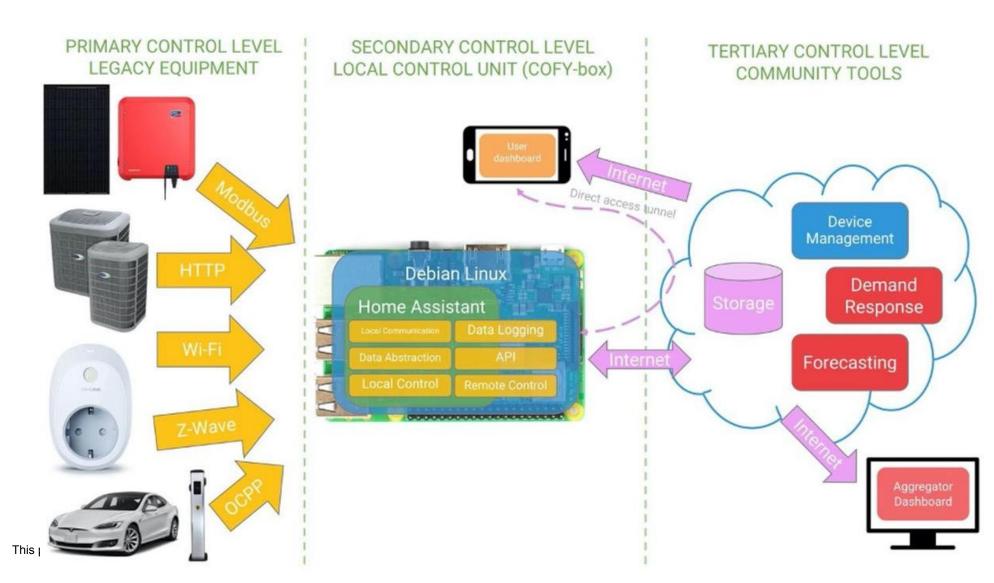


5 pilot sites



Tools for a communitydriven flexibility system

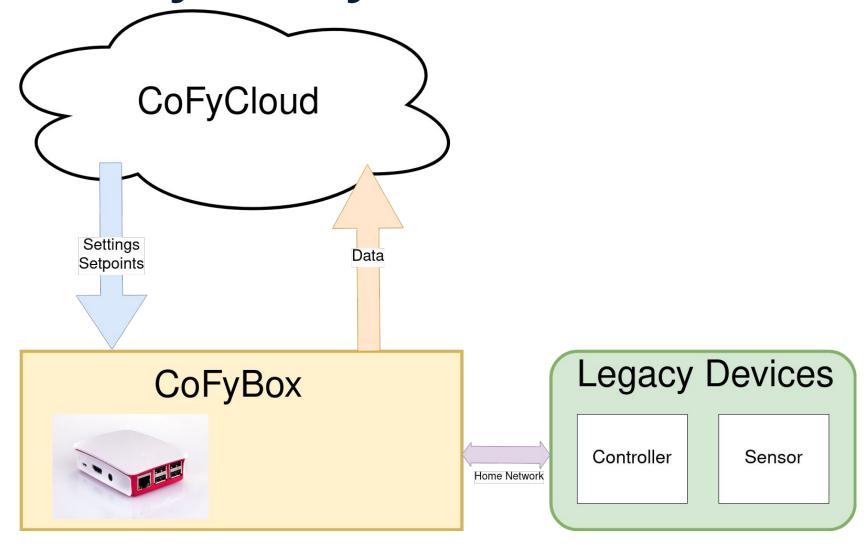
General overview







The CoFy Ecosystem







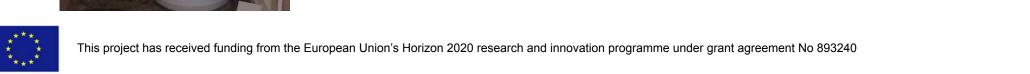
Connecting legacy equipment

Equipment already installed in homes, buildings, ...











Connecting legacy equipment

Equipment already available on the market













Open-source & collaborative tools

Challenge: how to measure and control legacy devices?





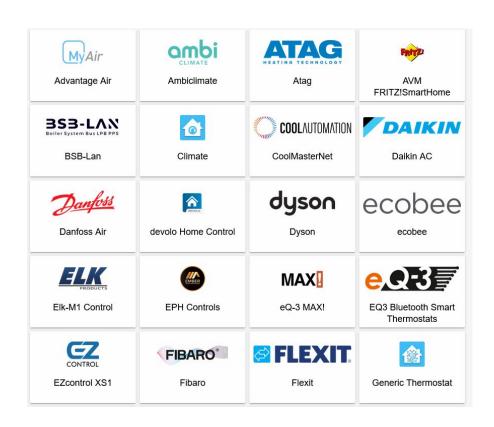






Open-source & collaborative tools

- Leverage work done by open source community
- Home-Assistant as pathfinder
- Contribute own developments in turn



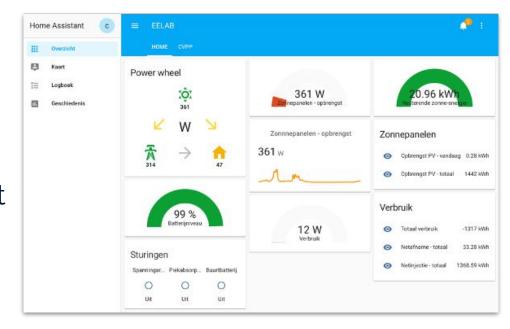
https://www.home-assistant.io





The CoFyBox

- In-home device
 - Connected to home network and legacy devices
 - Connected to the CoFyCloud over the internet
- Runs "blocks" of software for example
 - Home Assistant used for automations
 - Metering
 - Explicit and implicit demand response schedule calculator
- Blocks can be developed using Docker and Python code

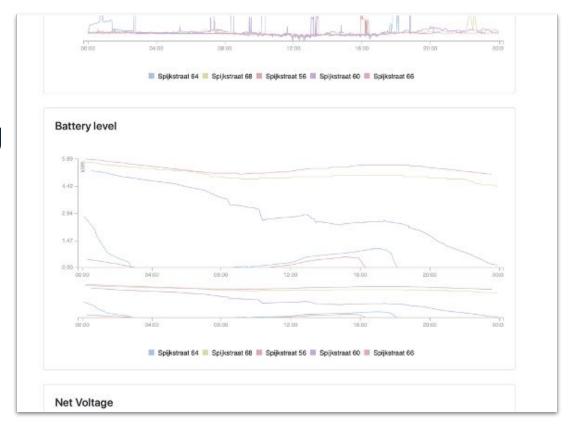






The CoFyCloud

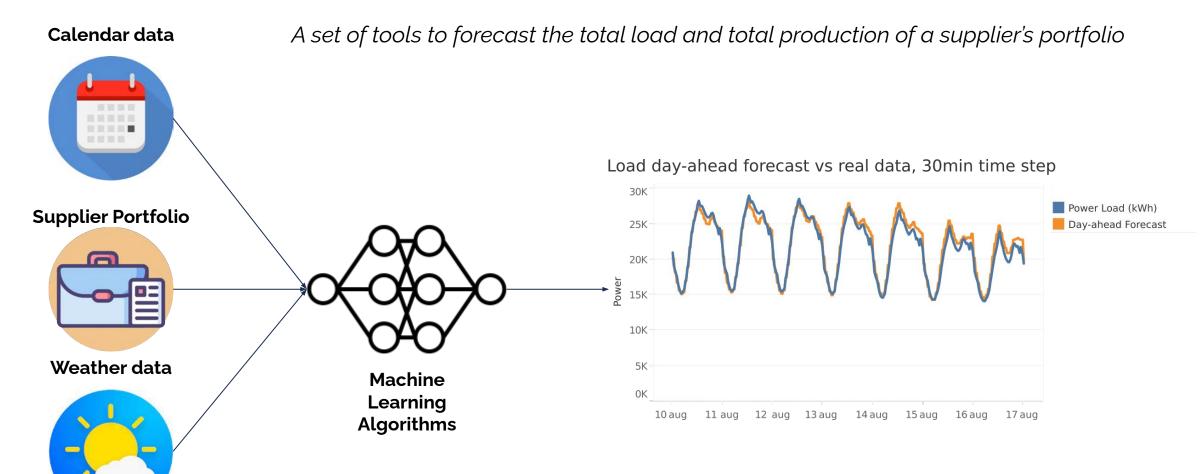
- Individual data storage and sharing
- Community management
 - Device management
 - Connection to CRM
 - Support
- Smart community
 - Data aggregation
 - Forecasting
 - Explicit and implicit demand response actions







The Forecasting Tools

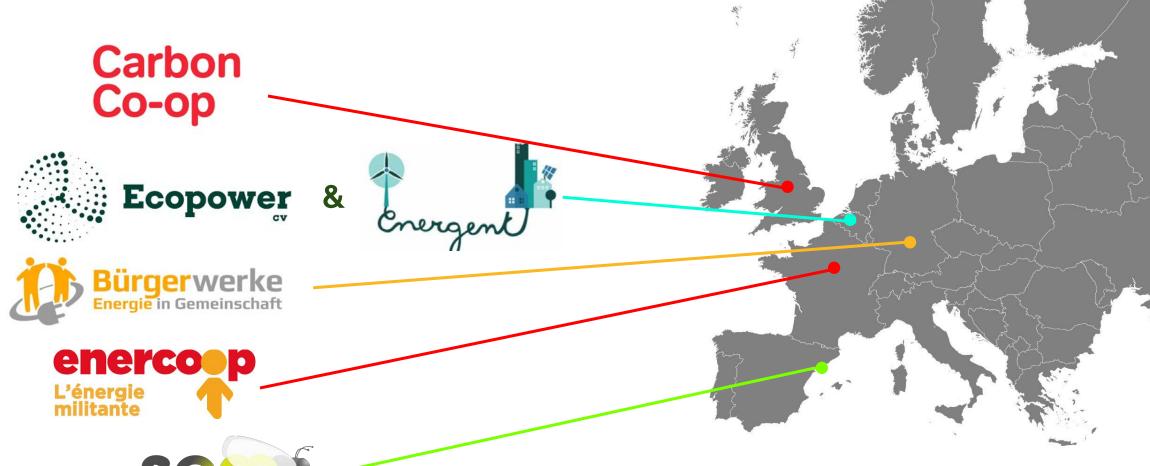






Demonstration pilots

energia









More Information

- Documentation Site https://docs.cofybox.io/
- Gitlab Group https://gitlab.com/rescoopvpp/
- Enercoop Forcasting Github Repository -

https://github.com/enercoop/enda



