

i-BATs

Development of a modular and intelligent information system capable of regulating a microgrid. It takes into account energy-related parameters such as temperature, brightness, energy consumption of buildings, etc. to predict the microgrids's energy consumption.

Project Management

Dominique Genoud
Alexandre Cotting
Luc Dufour
Pascal Pitteloud

Information

dominique.genoud@hevs.ch
eEnergy.hevs.ch

Key words

- Energy information management
- Smart grid
- Microgrid
- Data intelligence analysis

Our skills

Construction of a computing platform capable of controlling energy consumption

Valorisation

Synergies with the projects APEAS (CTI), MEU 2012, QuaD, and IoT6
Self-regulating energy services

Partners

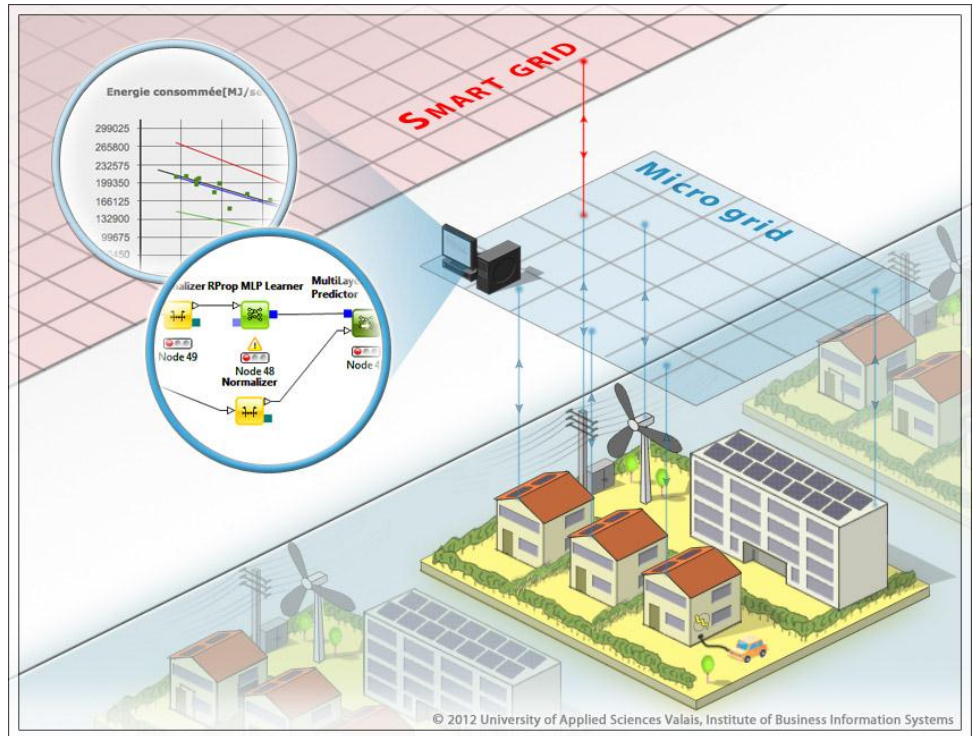
- Icare Institute
- Alro Communication SA
- Geroco SA
- Sierre Energie
- HES-SO Institute of Systems Engineering
- CSEM
- CREM

Finance

The Ark Energy

Schedule

04/2012 – 03/2013



i-BATs wants to develop an information system for collecting and processing data to control the **energy consumption of buildings**, and to predict and regulate the energy behaviour of microgrids.

This project will allow industrial services providers to offer new microgrid-related services such as the **prediction of the energy consumption** of a neighbourhood. The algorithms developed for this project will assist companies in developing **automated replies** to queries related to the energy consumption in households

The Institute of Information Systems is in charge of developing an **information system** capable of controlling the energy consumption of buildings and of predicting the energy behaviour of a microgrid in order to regulate it.

The Institute works closely with Sierre Energy on a real-life test with the microgrid located at the Techno-Pôle site.

