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.

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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.