ReDREAM

Energy Efficiency tool

The main goal of the Energy Efficiency (EE) tool is to optimise thermal and electrical energy in buildings, apartments, homes, shops, offices, industries, taking into account different types of Distributed Energy Resources (DER) and user preferences (lighting and temperature), considering real-time conditions. Thus, the tool aims to manage those devices that can store electric or thermal energy to consume in the moments where prices are lower or solar energy is being generated, to reduce energy bills and pollution.

Smart devices are installed in manageable assets such as electric charging posts and heatpumps to know the region, tariffs and user habits. An algorithim can allocate the consumption to satisfy the comfort of the user considering energy costs, emissions and comfort. An energy community, aggregator or Energy Service Company (ESCO) could provide those kind of services.

Short Facts

- Automation: energy consumers do not have to be in charge of turning on or off devices anymore.
- Consumers know what their consumption is and the status of their assets.
- Consumers will get remote control of their devices.
- Consumers will get a detailed description of energy costs and balances.
- The tool will reduce the bill of the consumer.

What do we want to achieve?

Automatize the consumption to reduce the bill and increase self consumption.

Implementation targets

- Energy Communities
- Domestic and Commercial Consumers/Prosumers

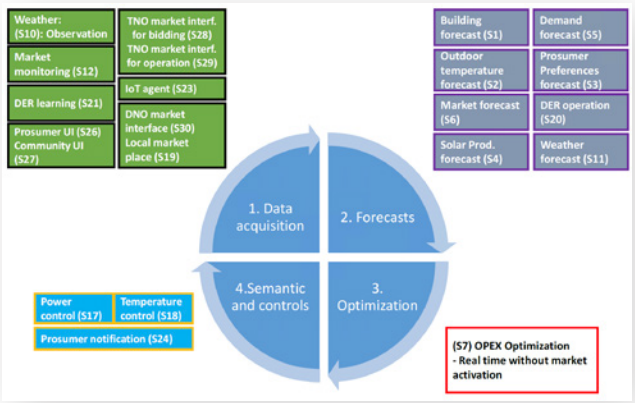
Greatest Benefit

Energy Efficency can help to reduce the costs shifting consumption to low price periods or renewable production.

Market Potential

Being included in Energy Management System or used by aggregator, energy communities or any energy service provider.

Screenshot



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Technical Readiness Level

1 2 3 4 5 6 7 **8** 9

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