

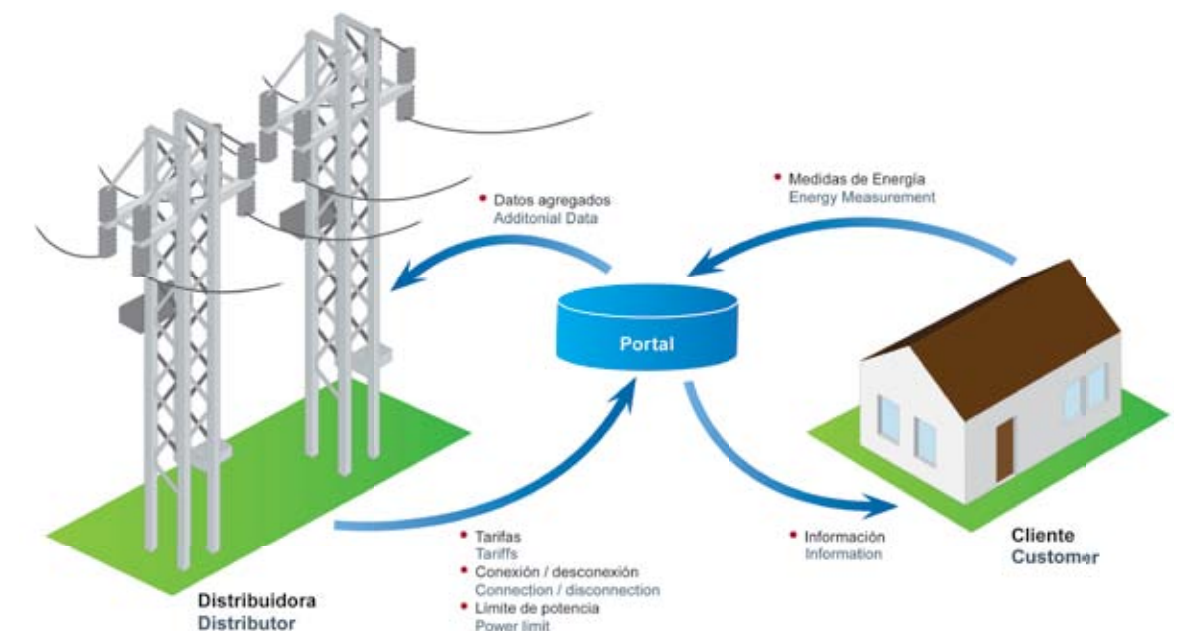
DER

DER IREC 22@ Microgrid

R&D project

DER IREC 22@ MICROGRID is an industrial research project focused on the creation of new products and services in the domain of **Distributed Energy Resources (DER)** and the **Electrical Vehicle (EV)**.

The experimental research environment is an electric microgrid located at Catalonia Institute for Energy Research (Institut de Recerca en Energia de Catalunya - IREC).



PROJECT BENEFITS

“A microgrid is a system which aggregates loads and microsources operating as a single system providing both power and heat” The CERTos Microgrid concept.

Optimum management of microgrids will enable in the future: energy efficiency, emission reduction, increased use of renewable energies, reduction of energy costs, optimum power supply security, and minimisation of wasted electricity.

MAIN OBJECTIVES

To create a DER – IREC 22@ MICROGRID platform for experimentation that provides experimental data to the different agents of the sector



To identify and overcome the technical barriers that impede adoption of the new paradigm of distributed energy resources represented by microgrids

To consider and foresee the impact the electric vehicle will have on the new energy model and on the microgrids



To analyse new energy management models that take into account the interaction between microgrids and distribution lines

Project Leaders:



Research Leaders:



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