

Ricerca sul Sistema Energetico – RSE S.p.A.



Description and scope

Established at the end of 2005, currently owned by GSE (Gestore Servizi Energetici), RSE's mission is to take over funded research programs and contract research at national and international level, focused on the electricity and energy sector with emphasis on experimental pilot applications. The comprehensive and system-based approach, with valorization of multi-disciplinary competences, is mainly oriented to benefit national electrical system users and industrial operators.

[More info](#)

Main current Researches

- Control solutions for Centralized and distributed Microgrids
- Power Electronics solutions
- ICT in DG Smartgrid
- Increase hosting capacity in DG network using storage devices
- MicrocoCHP strategies in Demand Side Management
- Electric Vehicles and its interaction with electrical grid

Research Infrastructure Installation(s)

DER TEST FACILITY (DER-TF)

It consists of a LV microgrid, including several generators with different technologies (renewable and conventional), controllable loads and storage systems. DER-TF can provide electricity to the main grid with a maximum power of 350 kW.

[More info](#)



DEMAND SIDE MANAGEMENT EXPERIMENTAL HOUSE (DSM-EH)

It is a 60 m² building representing a common residential solution. The central element is a Home Energy Manager & Gateway (GED), combining signal received from retailer (tariffs) and distributor (emergency) and user preferences regarding comfort and energy saving. Several functions have been developed and tested; one of the main functionalities is represented by load and heating management.

[More info](#)



Offered Services

The Supervision and Control System of DER-TF, connected also to DSM-EH, provides several services:

- Interface with distributed resources (equipped with their local control systems)
- Archive functions: data storage and retrieval, in order to permit further analysis
- Standard TCP/IP interface towards optimization applications.

[More info](#)

Contact details

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