

Electricité de France (EDF) - Research and Development



Description and scope

EDF R&D is the research and development branch of EDF. Its main mission is to:

- contribute to improve the performance of the operational crews of EDF,
- identify and prepare levers for growth in the medium-to-long term.

EDF R&D implements a proactive policy of partnership in France, in Europe and in the world.

MIRE (Measurements and Information System of Electrical Networks) and LME (Electrical Equipment Laboratory) are two departments belonging EDF R&D that works toward electric networks.

The ambition of the MIRE department is to get a global vision of networks processes, backed up with a strong technical expertise and the knowledge of the state of the art to anticipate and influence the evolutions of tasks and competences about electrical network activities, especially about the Smart Grids.

The LME is a department where researches, developments, tests and assessments are carried out upon electro-technical, electronic, electromagnetic or electrochemical issues. These studies are applied to power and control equipments for low, medium and high voltage networks.

Main Current Research

MIRE	LME
<ul style="list-style-type: none"> • Quality of Electricity • Monitoring Systems • Electrical Network Automation and Protection • Electrical Network Reliability and Availability • Interoperability and Business Application 	<ul style="list-style-type: none"> • Distribution and Transmission equipments • Dielectric behavior and environmental impact of equipments • Ageing assessment of distribution equipments and cables • Electromagnetic compatibility, electronic components • Battery and power management

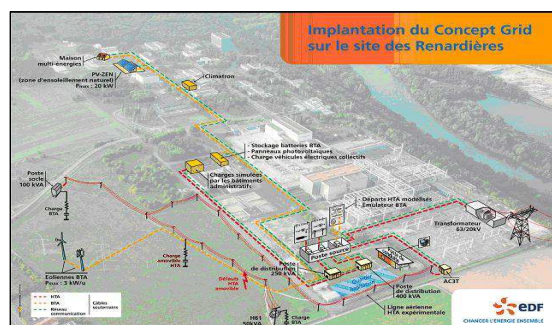
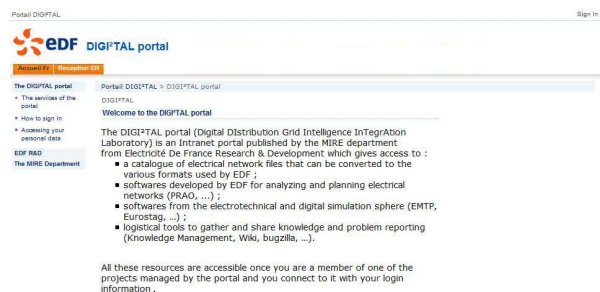
Research Infrastructure Installations

DIGI²TAL, by MIRE

The DIGI²TAL portal (Digital Distribution Grid Intelligence InTegrAtion Laboratory) is an Intranet portal, published by the MIRE department from EDF R&D, which gives access to a set of data, software and resources to achieve analysis and simulations.

Concept Grid, by LME

Concept Grid is a physical test facility fed by the French network (63/20 kV transformer) and by distributed energy resources such as PV, wind power, generators or batteries. It features MV and LV equipments working with physical and simulated loads and upon which we could create accurate perturbations.







Offered Services

DIGI²TAL offers to their members:

- Access to the electrical network data granted to this project by the EDF owner of the data
- Export of the network data to the following formats : ASC, CIM-CDPSM, MSITE, ECH, UCTE, Matlab
- Access to the software tools granted to the project, among the following ones available for now : CIM Viewer, CIMSPY, EUROSTAG, EMTP, FAR-RECONFIGURATION, MOSARD, PRAO, MERCURY, CIMPHONY, TRADER
- Access to the knowledge and expertise data granted to this project by the EDF owner of the data

Contact details

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