STORAGE RESEARCH INFRASTRUCTURE ECO-SYSTEM

RI Information sheet 2022

EDF R&D, Concept Grid

Technology(ies) of Energy Storage : all technologies that can be grid connected

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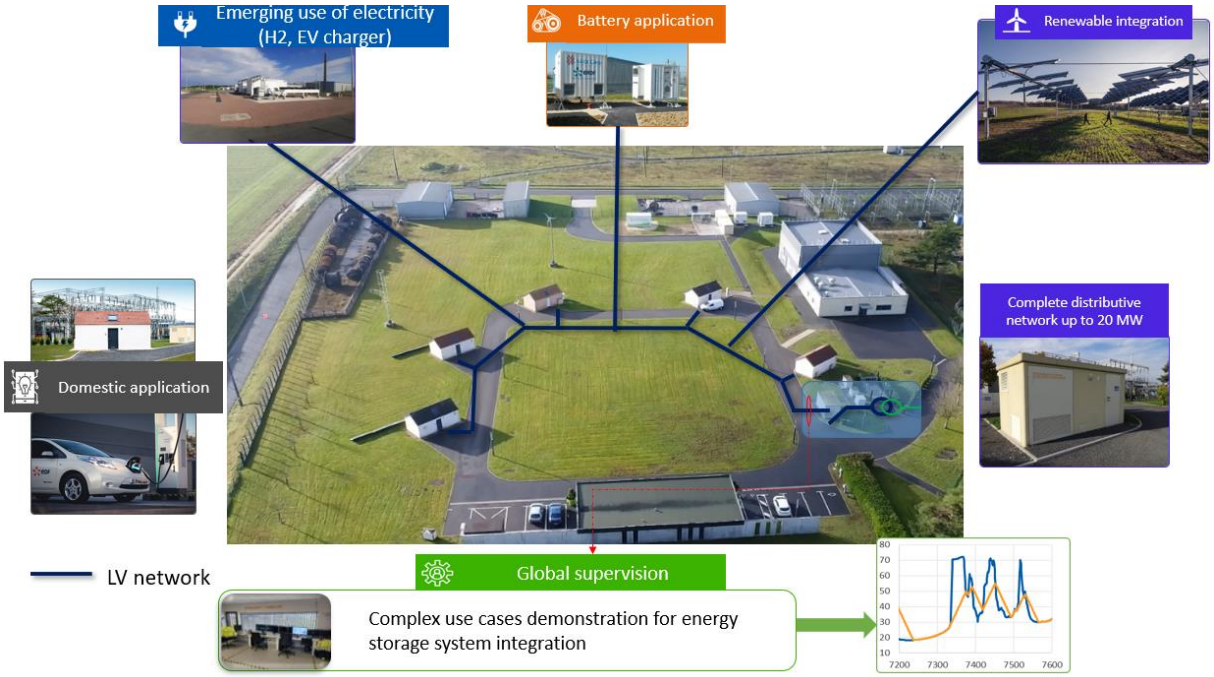
Project Acronym	StoRIES
Call	H2020-LC-GD-2020
Grant Agreement No.	101036910
Project Start Date	01-11-2021
Project End Date	31-10-2025
Duration	48 months

1. Photo



2. Geographical coordinates (48.375555019730534, 2.843303329527817)

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3. Description of the research infrastructure for the webpage

Concept Grid is a real "smart" distribution network representative of a real electric system from the primary substation to residential appliances. This platform offers the possibility to conduct, in a controlled and safe environment, complex testing campaigns which would be impossible to perform on a real network. Its flexible design allows to work in several network configuration to match with the customers' expectations. The infrastructure also contains existing grid connected storage such as batteries and a water electrolyser platform that can be used to study hybridised storage.

4. Availability of the research infrastructure

(Please indicate time periods in which infrastructure will not be available for StoRIES in the next 2 years – if already known)

The infrastructure is being used constantly for tests, but approximately 4 weeks of activity for the StoRIES project can be reserved per year and will need to be planned in advance.

This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 101036910

5. Special considerations (confidentiality / NDA agreements, insurance requirement, special training, HSE training)

A contract will be drawn up for each test campaign that will include confidentiality, safety and other requirements. No specific HSE training is required, the grid will be operated by trained and qualified EDF personnel.

6. Energy storage technology that can be analysed/studied by using the research infrastructure

- Electrochemical ☒
- Chemical ☒
- Thermal ☒
- Mechanical ☒
- Superconducting Magnetic ☒
- Cross-cutting ☒ (Specifically: …)

7. Key words for the webpage

Smart grid application, distribution network integration, energy storage, hybrid storage

8. TRL level (if applicable):

- 1-3 ☐
- 4-6 ☒
- Above ☒

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