



STORAGE RESEARCH INFRASTRUCTURE ECO-SYSTEM

RI Information sheet 2022

Eni, Thermal Storage pilot plant

Thermal Storage

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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

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2. Geographical coordinates (°, ′, ″ ... N/S, E/W)

45°27'24.6"N 8°38'24.9"E

3. Description of the research infrastructure for the webpage

Experimental loop for the test of a thermal energy storage unit (about 40 kWh_{th}) in the range 30°C < T < 320°C. The storage unit is a solid thermocline system using thermal oil as heat transfer fluid.

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)

Plant under construction, available from February 2023

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

Researchers access to the infrastructures must be regulated according to Eni safety procedures: only Eni personnel can operate experimentally. Users will enter only as visitors with the opportunity to attend the trials, but without operating.

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

Thermal energy storage

8. TRL level (if applicable):

- 1-3

- 4-6
- Above

