



STORAGE RESEARCH INFRASTRUCTURE ECO-SYSTEM

RI Information sheet 2022

Eni, Supercomputer

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



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

Eni SpA Green Data Center – Strada della Corradina, Ferrera Erbognone (PV)

GPS:

45.119565810749194, 8.857189599829347

Lat/Long:

N 45° 10′ 10.407″

E 8° 51′ 25.882″

3. Description of the research infrastructure for the webpage

HPC5 is a supercomputing system. It is a DELL EMC hybrid CPU-GPU system and it peaks a computational power of around 52Pflops. HPC5 is the most powerful HPC system used for commercial purposes. Its hybrid configuration CPU/GPU allows to run basically any kind of simulation software. Eni has decades of HPC



experience. Moreover, there is a cluster called “RAD” (research and development) which is specific for research projects and for external users.

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)

Availability: 5-10 nodes per project (compatibly with business needs)

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

Admitted users will receive unique, confidential and strictly personal credential and VPN configuration to connect to the facility through a SSH secure transfer access and a strong authentication method. Once admitted to the use of the supercomputing system, they will be instructed on how to use the computational resources.

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

Supercomputer, HPC5, Simulation

8. TRL level (if applicable): N.A.

- 1-3
- 4-6
- Above