

**Name of the organization**

ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development)

**Name of the infrastructure / laboratory**

CR Casaccia / Molten Salt Experiments (MOSE)

**Address and country of the infrastructure / laboratory**

ENEA C.R. Casaccia - Via Anguillarese 301 – 00123 Rome, Italy

**Person responsible of the access / Contact person**

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**Main field of activity of the infrastructure / laboratory**

► Hydrogen production

**Short description of the infrastructure / laboratory**

The MOSE facility is in operation since 2007, and covers the experimental needs related to materials characterization in molten salt flowing condition. It is suitable for dynamic corrosion testing and all other durability testing of steels, sealing, welding, etc. The experimental results of such facility is necessary for proper engineering of molten salt devices such as heat collecting elements, heat exchangers, pumps, valves, storage tanks, etc. Hence, MOSE facility is potentially adaptable to thermochemical plants requiring up to 40 kW of thermal power at 550°C for R&D studies on solar-hydrogen production at the pilot/bench scale. In this case, the solar plant is simulated by means of an electrical heater.

**Main research area(s) of the infrastructure / laboratory**

Materials characterization in molten salt flowing condition

**Access not available yet.**

**Information on the installation will be further updated.**