

DEVELOPMENT OF ECCSEL-R.I. ITALIAN FACILITIES: USER ACCESS, SERVICES AND LONG-TERM SUSTAINABILITY



Panel di riferimento: **ENE**

Titolo della Proposta: **Development of ECCSEL-R.I. ItaLian facilities: usEr access, services and loNg-Term sustainability**

Codice della proposta: **IR0000020**

Tipologia: **(i) - Empowering**

Proponente: **INOGS**

Infrastruttura di Ricerca: **ECCSEL - ECCSEL–NatLab Italy: Componente italiana di ECCSEL (European Carbon Dioxide Capture and Storage Laboratory Infrastructure)**

Importo totale: **16.500.000,00€**

Di cui al Sud: **6.600.000,00€ (40,00%)**

Abstract:

The general objective of the ECCSELLENT project is to upgrade most of the Italian facilities part of ECCSEL ERIC and to expand the Italian node to promote the development and internationalization of our country's research in the full chain of CCUS (CO₂ Capture, Utilisation, Transport and Storage). The work plan of ECCSELLENT proposal will interest the facilities owned by OGS, University of Bologna, Politecnico of Milano, ENEA, already part of ECCSEL and the two ones owned by CNR (ITAE) of Messina and CNR (STEMM) of Naples, which will be proposed for the inclusion in the IR. The new technologically advanced instrumentation will allow the integration and networking of the data and the collected results, offering the opportunity for the stakeholders (industrial sector, small and medium-sized enterprises) to test the equipment in conditions of real operation making use of the experience of scientific staff. The activities envisaged in ECCSELLENT make it possible to strengthen scientific excellence by providing the national research system with the tools necessary to advance the frontiers of knowledge, but also to face, in a more efficient way, the great challenges expressed by society, at EU level within the Horizon Europe Framework Program, or specific for our country. The strengthening of the infrastructure will offer researchers the possibility of counting on competitive level equipment and will therefore have a significant impact on the scientific progress by promoting dialogue and comparison with the international research system and, consequently, on the cultural and scientific growth of the national population of researchers. About CCUS, Italy is competing with dynamic countries in Europe and must be placed in the position of being able to play its game. The proposal then aims to maintain the level of excellence gained by the Italian research infrastructures dedicated to CCUS, already widely recognized at international level.

Elenco partecipanti alla Proposta:

- Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile
- Consiglio Nazionale delle Ricerche
- Istituto Nazionale di Oceanografia e di Geofisica Sperimentale
- Politecnico di Milano
- Università degli Studi Alma Mater - Bologna