



The European CCUS Research Infrastructure

Sverre Quale
Director, ECCSEL ERIC
info@eccsel.org



What is ECCSEL?

The European Research Infrastructure for CCUS

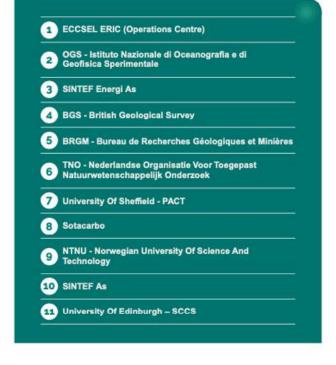
Member countries are Norway, the Netherlands, Italy, France and the UK

Provides coordinated access to 80+ CCUS research facilities

CO₂ capture, transport, use and storage

Coordinates development of CCUS research infrastructure and services to meet CCUS deployment needs







ECCSEL ERIC was founded using funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 675206



Included in the Roadmap of the European Strategy Forum on Research Infrastructures



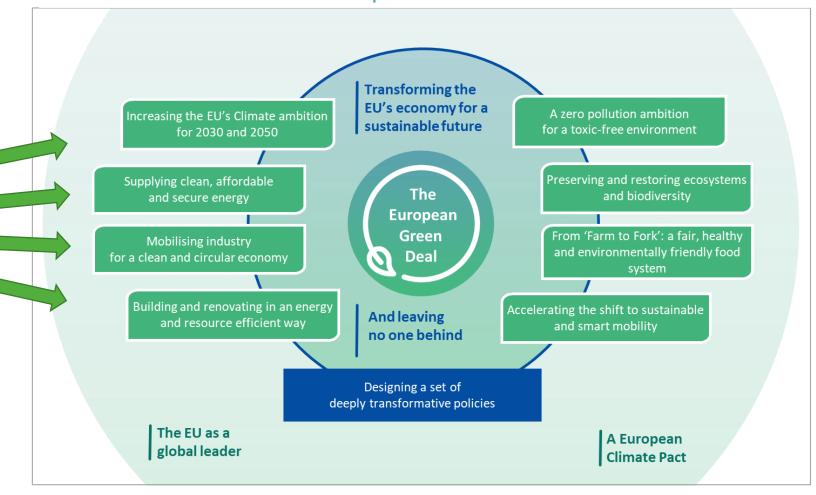


The European Green Deal





Directly involved in a number of EU projects and proposals with expected Green Deal impact/contribution





Alignment with other international initiatives







ECCSEL responds to the UN sustainable development goals (SDGs) by contributing to solutions that substantially reduce C0₂ emissions from industry and power generation.

SET-Plan

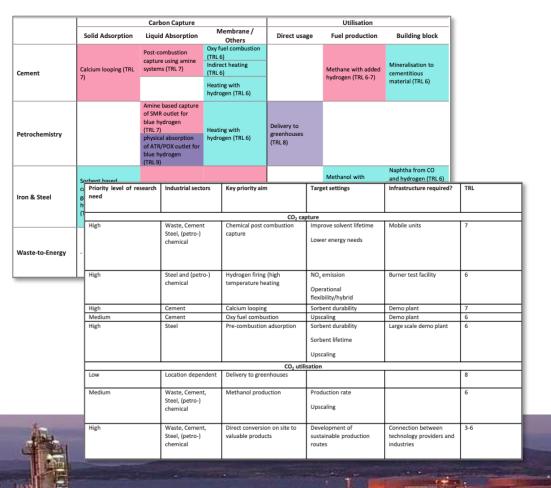
Development of CO₂ storage technologies to 2030 and beyond will require availability of world class R&D infrastructure. ECCSEL plays a key role in this pathway as specified in the SET-Plan IWG9 on CCS and CCU Implementation Plan: '(ECCSEL is) a world-class research infrastructure facilitating ambitious R&D activities, European industrial initiatives, and education of specialists for the new CCUS industry'.

Mission Innovation

ECCSEL is aligned with the implementation of the Innovation Challenge IC3 (Carbon Capture) to enable the development and testing of new and novel technologies.



Industry perspectives and ECCSEL research priorities



2021 Industry Workshop series - key industry sectors Updated ECCSEL service model for industry/SME engagement

- knowledge sharing, capacity building, joint research

Identified research priorities for CO₂ capture and utilisation Revising research priorities for CO₂ transport and storage

Design concept for new, large, multinational facility



First call for funded trans-national access

Open now

Closes June 2022

First come first served - applications assessed monthly from 15th December 2021

Aim/scope

Extend ECCSEL services to industry e.g. cement, iron and steel, waste to energy, petrochemical

Collaborative research, knowledge sharing, capacity building

CO₂ capture, transport, use, storage















2021-2022 TRANSNATIONAL ACCESS CALL

INDUSTRY AND SMALL AND MEDIUM SIZE ENTERPRISE ACCESS TO **ECCSEL ERIC FACILITIES**

The first ECCSELERATE Transnational Access call offers access to ECCSEL ERIC facilities dedicated to researchers or research teams from industry and small and medium size enterprise (SME). The target of the call is to extend the ECCSEL ERIC user base to industry to meet identified needs of industry within CCUS research.

Conditions of the call

Eligible applicants: Researchers from industrial companies and SMEs covering all industrial sectors relevant for CCUS research. The Transnational Access project can be merged with other ongoing activities. Research done in collaboration between industry/SMEs and universities/research institutes will also be eligible.

Technology Readiness Level (TRL): All TRL levels are covered in the call.

ECCSEL facilities accessible: All ECCSEL ERIC research facilities is open for application.

Eligible cost:

- The running costs of the installation
- · Costs for logistical, technological and scientific support to users' access, including ad-hoc training, preparatory and closing activities necessary to carry out user's work
- Travel and Subsidence funding for one researcher
 - Up to € 500 for travel
 - Up to € 100 for each day at the facility
 - Travel claim with receipts for all claimed expenses must be





First call for funded trans-national access

What does funding cover?

Costs borne by facility to host researcher, including training and supervision

Modest travel and subsistence costs for user

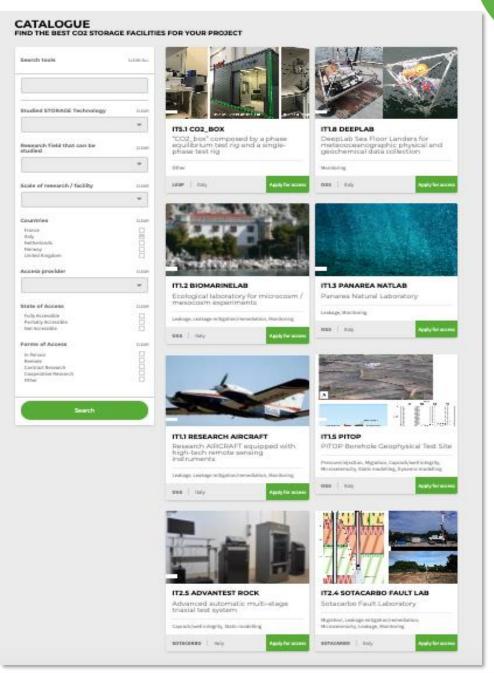
For how long?

Depends on facility and nature of work

Typically days – weeks – month

Conditions

Facility and researcher cannot be based in same country Short projects, can be combined with other research





Second call for funded trans-national access

Likely scope

Addressing identified research priorities that will overcome barriers to broad CCUS roll-out in Europe

Expected spring 2022

More information/news at website and social media channels

Conditions

Facility and researcher cannot be based in same country

Short projects

Can be combined with other research













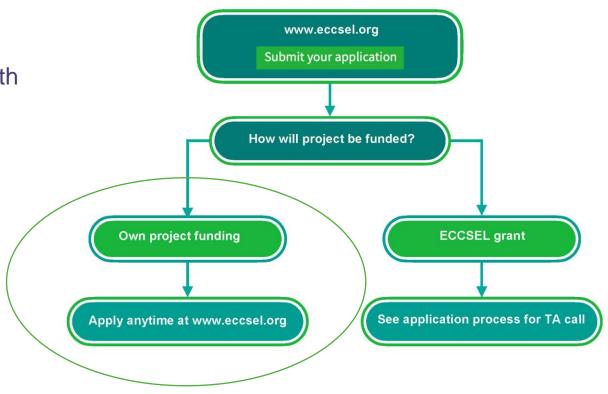
Other ways to access facilities in the ECCSEL RI

ECCSEL facilities open to CCUS researchers with own project funds

No geographical restrictions

Streamlined application process

Apply anytime at www.eccsel.org













New members, observers, collaboration partners (MoUs) welcome



Join ECCSEL (State Representative)

The information provided below is aimed towards national representatives from an EU Member State or Associated Member that could partner ECCSEL

(for more information see why ECCSEL - link). Else, if you are a Facility Owner, go to Join ECCSEL (Facility owner) (link)

Why join ECCSEL as a member?

By choosing ECCSEL, you are choosing to partner leading research institutes worldwide committed to facilitate fundamental and applied research for advancement in CCUS deployment in Europe.

Renefit

Be part of a European approved RI legal entity

- International visibility and common marketing
- Increased opportunities for external cooperation
- Cost sharing and savings.
- Influence on international CCUS policies
- . Partnership with other EU initiatives
- Common strategies increase cooperation and facilitate synergies
- Access to ECCSEL ERIC resources/services
- Participate in ECCSEL ERIC events (training, conferences, etc) at preferential rates
- Use ECCSEL ERIC branding

Increased dedicated funding through

- EU Research and Innovation programmes, e.g., ERA ACT, Horizon Europe, etc.
- · National grants and joint industry investments
- Joint / coordinated funding applications

Increased facility utilization

- European strategy to fill gaps of services not yet provided
- Standardized access process

Increased turnover

Synergised communication efforts

New investments, activities, and business opportuniti

- New research projects (including facilities expansions and investments)
- Capacity building, education, and training
- · Innovations, spin-offs, and job opportunities

Funding Policy

- ECCSEL solicits joint funding from the European Unio industry, and regional and national agencies.
- Members have the authority to decide how to assum their contributions to ECCSEL ERIC.
- Operational costs of facilities are recovered from facility users, subject to funding via research projects grants and industry.

ECCSEL Members commitments

- Pay annual fee
- Provide a minimum of one facility
- Support/initiate integration of national facilities in ov and other Member States

Observers have the same right as Members apart from their vote right at the General Assembly.

How to join?

Contact info@eccsel.org



See also

What is CCUS?

What is ECCSEL? Access ECCSEL



(Facility Owner)

Join ECCSEL

The information provided below is aimed towards institutions with research facilities that could be

included in ECCSEL (for more information see why ECCSEL - link).

Else, if you are representative from an EU Member State or an EU Associated Member go to <u>Join ECCSEL (State</u> <u>Representative)</u> (link)

Why join ECCSEL as a Facility Owner?

By choosing ECCSEL, you are choosing to partner leading research institutes worldwide committed to facilitate fundamental and applied research for advancement in CCUS deployment in Europe.

Benefits for facility owners

Be part of a European approved RI legal entity

- International visibility and common marketing
- Increased opportunities for external cooperation
- Cost sharing and savings
- Influence on international CCUS policies
- Partnership with other EU initiatives
- Common strategies increase cooperation and facilitate synergies
- Access to ECCSEL ERIC resources and services
- Participate in ECCSEL ERIC events (training, conferences, etc) at preferential rates
- Use ECCSEL ERIC branding, <u>e.g.</u> in marketing of own ECCSEL facilities

Increased dedicated funding through

- EU Research and Innovation programmes, e.g., ERA ACT, Horizon Europe, etc.
- · National grants and joint industry investments
- Joint / coordinated funding applications

Increased facility utilization

- European strategy to fill gaps of services not yet provided
- Standardized access process
- Increased turnover

- Synergised communication efforts
- ECCSEL common data management allows shared open and fair data implementation at reduced cost (compared to individual developments)

New investments, activities, and applied research

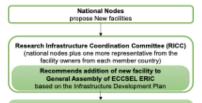
- New research projects (including facilities expansions and investments)
- · Capacity building, education and training

Facility owner commitments

- Contribute to the Member national node according to Member decision
- · Provide minimum of one research facility
- Support integration of national facilities in own and other Member States

How to add new facilities?

If the facility is within an ECCSEL member country follow the procedure below, otherwise contact info@eccsel.org



General Assembly of ECCSEL ERIC
Approves addition
based on the ECCSEL ERIC Research Strategy/

mediations of the special control cont

The criteria for addition of new ECCSEL facilities include: relevance of provided services, user needs, uniqueness and excellence.

> For more information contact info@eccsel.org

See also

What is CCUS? What

What is ECCSEL?

Access ECCSEL





Thank you for your attention

www.eccsel.org









