



European Carbon Dioxide Capture and Storage Laboratory Infrastructure
European Research Infrastructure Consortium

*Enabling low to zero CO₂ emissions
from industry and power generation*

1st webinar on CCUS

Organized in the frame of the ECCSELERATE project

SOME RECOMMENDATIONS

ALL PARTICIPANTS MUST SWITCH OFF THEIR MICROPHONE
AND CAMERA DURING THE WEBINAR

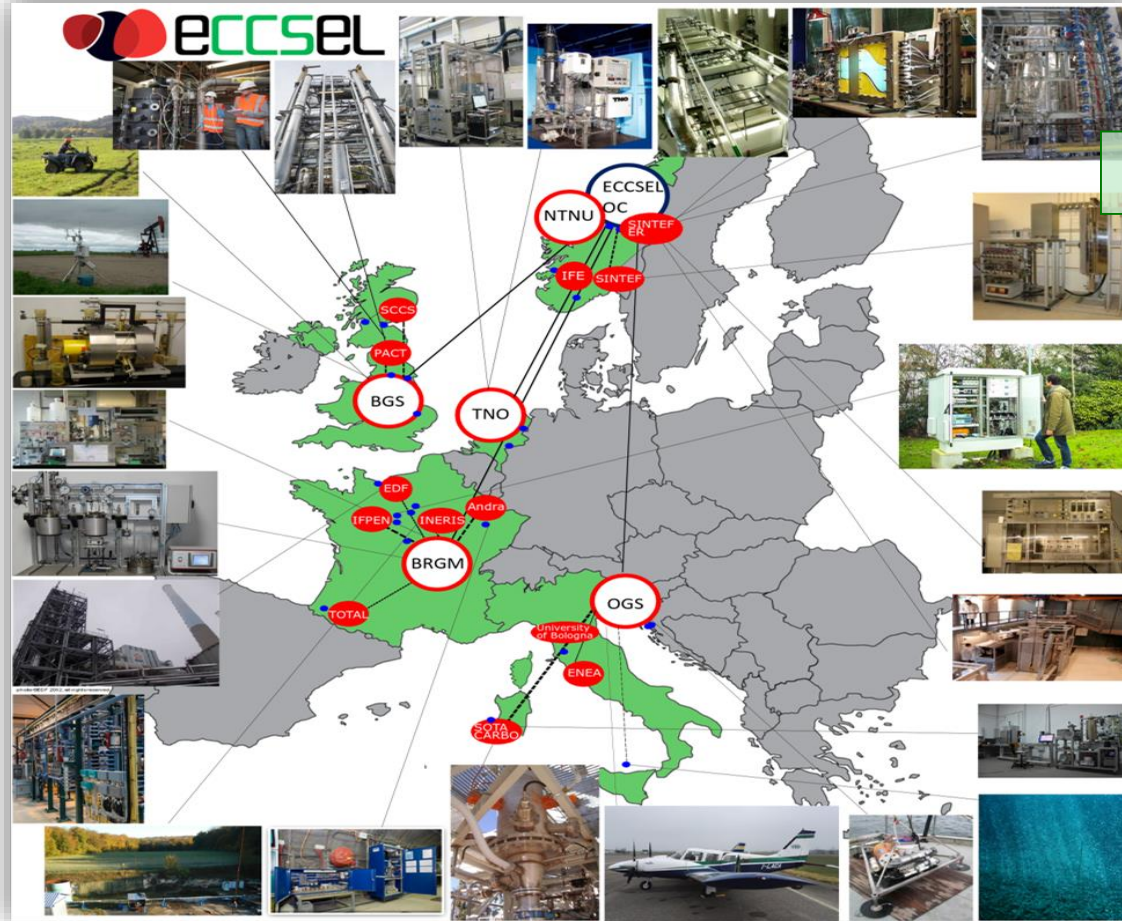


QUESTIONS ARE WELCOME AT THE END OF PRESENTATIONS SESSION

PLEASE TYPE THEM IN THE QUESTIONS PANEL
AND THE SPEAKERS WILL ANSWER YOU

Enabling low to zero CO₂ emissions from industry and power generation

eccsel
European Research Infrastructure Consortium:
 Norway (Operations Centre), France, Italy, United Kingdom and Netherlands
 21 research facility owners providing open access to 79 world class research facilities
 (Continuously expanding with new members/partners and facilities)



IPCC's Special Report on Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation
Close CCUS knowledge gaps

Contribute to reduction of CO₂ emissions in accordance with the Paris agreement 1,5 – 2 degree target



Upgrades and new builds in the range of 200 Million Euro from 2015 until 2030

The ECCSELERATE project

3-year project managed by ECCSEL ERIC (01/2020 – 12/2022)

Budget: 3.5 M€

The project ECCSELERATE focuses on:

- Increasing **use** and **long-term sustainable operation** of the ECCSEL ERIC RI
- Developing **marketing, access and services** models for **industry** and SME
- Increasing **international collaborations**
- Extending ECCSEL ERIC activities towards utilisation of CO₂ (**from CCS to CCUS**)
- Developing **national nodes** and expanding ECCSEL ERIC **membership**
- Increase the involvement of ECCSEL ERIC with **ongoing industrial CCS projects**

The ECCSELERATE capacity building programme

ECCSEL has developed a new capacity building programme to implement access services to its facilities and, more generally, to further attract the industrial and research community of users gravitating towards CCUS.

The capacity building programme will consist of three main core activities:

- a **webinar series**, dedicated to highlight some key topics of capture, transport, utilization and storage, and to present ECCSEL solutions to support these topics (starting at the end of 2020)
- **specific workshops** held in conjunction with popular **Summer Schools** (Panarea and Sulcis – starting from 2021)
- **tailored training courses** addressed to attract industry, researchers and new user groups to ECCSEL ERIC (from 2021)

The webinar series – preliminary programme

Year	CO ₂ capture	CO ₂ transport	CO ₂ utilization	CO ₂ storage
2020	October	November	November	December
	CO ₂ capture technologies: Fit to purpose	CO ₂ transport concepts and challenges	Sustainable CCU technologies relevant for Europe and ECCSEL	Identification and characterization of a geological storage site
2021	February	March	April	June
	Chemical looping and gas switching combustion	Gas specifications (impurities, oxygen, sulphur, etc.) for CO ₂ transport	CO ₂ conversion into “e-fuels”: concepts and applications	Injection and storage of CO ₂
	September	November		
	Advanced membranes for pre-combustion capture	Safety of CO ₂ transport		
2022			February	March
			Hydrogenation processes	Monitoring
	April	June	September	October
	CO ₂ capture from industrial plants	Interfaces: Capture/Transport, Transport/Transport, Transport/Injection	Potocatalytical and photoelectrochemical processes	Mechanical impact of CCS on reservoirs

13th October
2 p.m. – 3 p.m.

Today's agenda

Keynote speakers:

- **Thijs Peters**, PhD, Senior Scientist, SINTEF Industry – Sustainable Energy Technology - “CO₂ capture with membrane technology”
- **Richard Blom**, PhD, Senior Scientist, SINTEF Industry – Process Technology – “Sorbents for CO₂ capture processes”
- **Karl Anders Hoff**, PhD, Senior Scientist, SINTEF Industry – Process Technology – “Solvents for CO₂ capture applications”

Chaired by:

- Michela Vellico, PhD, Senior Technologist, OGS – ECCSEL ERIC
- Alberto Pettinau, PhD, Scientific Director, Sotacarbo – ECCSEL ERIC

