



The European CCUS Research Infrastructure



An ECCSEL ERIC project

4th webinar on CCUS

Sustainable CCU technologies relevant for Europe and ECCSEL



European Research Infrastructure Consortium:

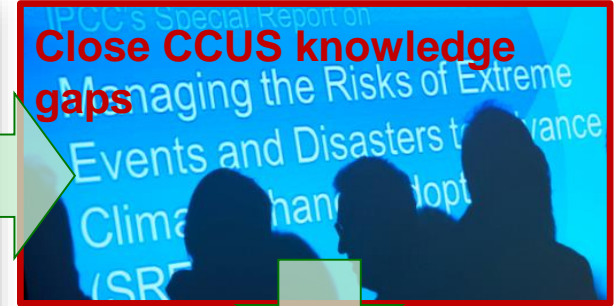
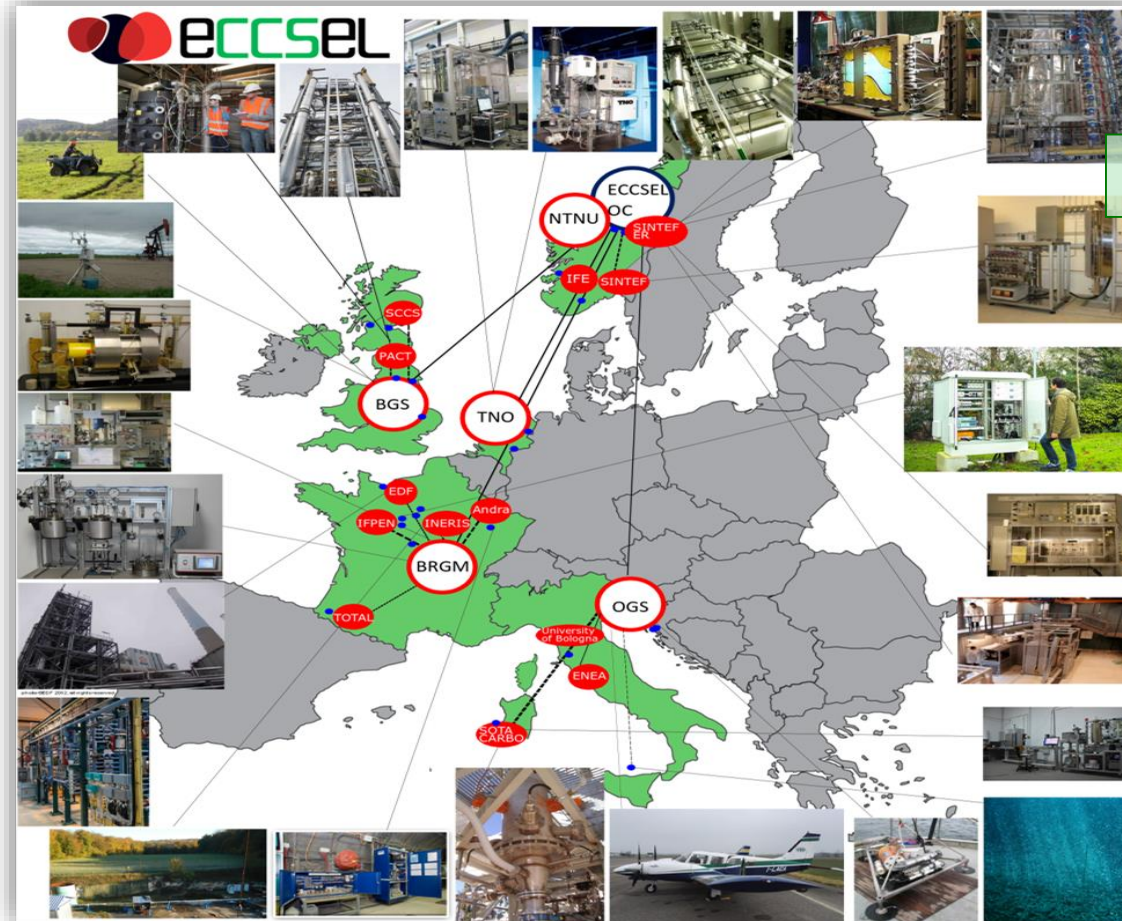
Norway (Operations Centre), France, Italy, United Kingdom and Netherlands

23 research facility owners

providing open access to

more than 80 world class research facilities

(Continuously expanding with new members/partners and facilities)



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	13 th October (14.00 -15.00 CET)	16 th December (14.00 – 15.00 CET)		
	CO ₂ capture technologies: Fit to purpose (SINTEF Industry)	Research for safe and efficient CO ₂ transport (SINTEF Energy)		
2021			28 th April (14.00 – 15.00 CET) Sustainable CCU technologies relevant for Europe and ECCSEL (CO2Value Europe, SINTEF Energy)	February 25 th (14.00-15.00 CET) Characterization of a CO ₂ geological storage site (BGS , IFE)
	May	June	September	October
	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
	November	December		
	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



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



Today's agenda

Keynote speakers:

- **Anastasios Perimenis, PhD** – CO2 Value Europe, Secretary General
- **Elvia Chavez, PhD** – Sintef Energy Research, Research Scientist



Chaired by:

- **Alberto Pettinau, PhD** – Sotacarbo, Scientific Director

