



*Snapshot of the Implementation Working Group (IWG)*


# CARBON CAPTURE AND STORAGE - CARBON CAPTURE AND UTILISATION (CCS-CCU)


*Accelerating the development of CCS, CCU and low-carbon hydrogen to achieve net-zero GHG emissions in Europe by 2050*



## **SET Plan** Progress Report 2020

 10 Targets

 8 Activities

 81 Projects reported

 646 M€ reported

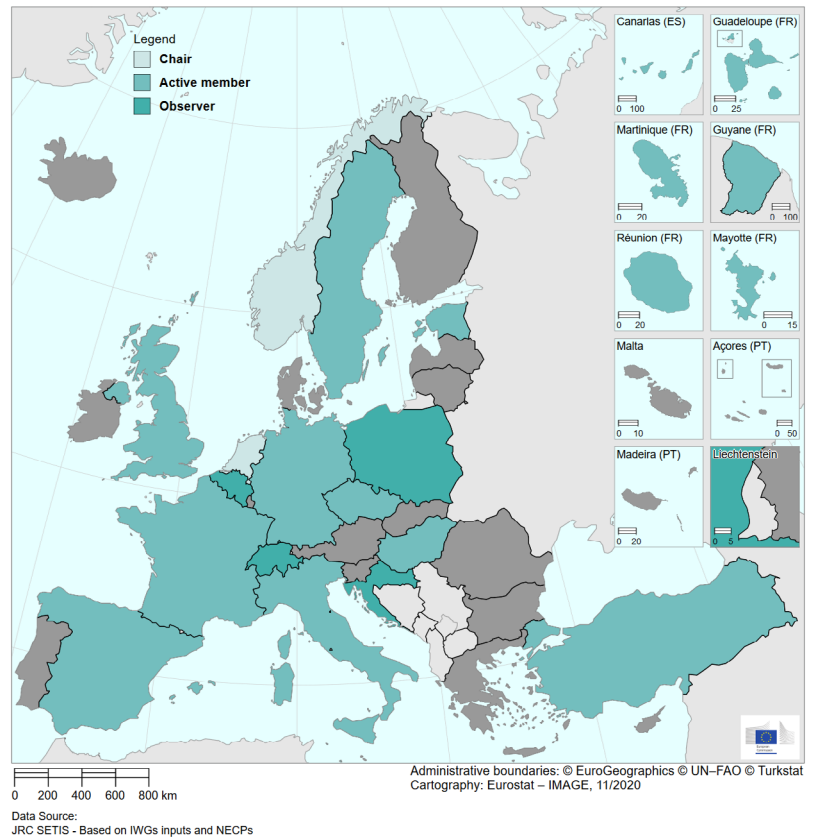


Figure 1 Composition of the IWG

The CCS – CCU IWG identified a [list](#) of European carbon capture utilisation and storage (CCUS) innovative projects to be financed through the Recovery and Resilience Facility or other sources.

## Supporting the EU Green Deal

With the introduction of the European Green Deal, the European Climate Law, and the increased 2030 climate target, CCUS is becoming crucial in reaching Europe's climate neutrality in a cost-efficient way. This decade will be key in accelerating CCUS and low-carbon hydrogen development, as shown by the ongoing projects and the increased number of countries pursuing CCUS across Europe.

The CCS - CCU Implementation Working Group (IWG) plays a critical role in reaching the European Green Deal climate-neutrality objective by 2050 through the strategic development of CO<sub>2</sub> infrastructure (transport and storage) that will create opportunities for CO<sub>2</sub> emitters across Europe to have access to cost-efficient decarbonisation pathways<sup>1</sup>. In compliance with the report on

<sup>1</sup> SET Plan Input Paper "The SET Plan contribution to the Energy System Integration Strategy" (November 2020). Retrieved from: [https://setis.ec.europa.eu/system/files/energy\\_system\\_integration\\_strategy\\_set\\_plan\\_input\\_paper\\_2020.pdf](https://setis.ec.europa.eu/system/files/energy_system_integration_strategy_set_plan_input_paper_2020.pdf)

'Follow-up on current targets', the recent achievements and the political landscape, the IWG updated [9 out of ten targets](#).

Research & Innovation activities are structured on five clustered areas: full-scale projects, clusters and infrastructure, capture, storage, and CCU and modelling.

Additional activities delivered by the CCS - CCU SET Plan cover areas, such as:

- The inclusion of low-carbon hydrogen and carbon dioxide removals in the targets and activities;

- The inclusion of CCUS in the European Commission's clean energy transition partnership (CETP);
- Enabling further development of CCUS by capitalising on the backbone infrastructure created by the first full-scale project in Norway and the EU ETS innovation fund;
- The role for CCUS for Europe's integrated energy system;
- The inclusion of CCUS in national energy and climate plans and Member States' long-term climate strategies.

The full list of activities is available on [the CCUS SET Plan website](#).

## Areas for collaboration with the IWGs and beyond the SET Plan

Fruitful cooperation:

- ETIP zero emissions platform
- EERA
- Mission Innovation
- CCUS projects network
- ERA-NET ACT

In 2020, the Implementation Working Group CCS - CCU cooperated with the following IWGs: Energy systems, Renewable fuels and bioenergy, Photovoltaics and Offshore wind, Energy efficiency in industry and Deep geothermal.

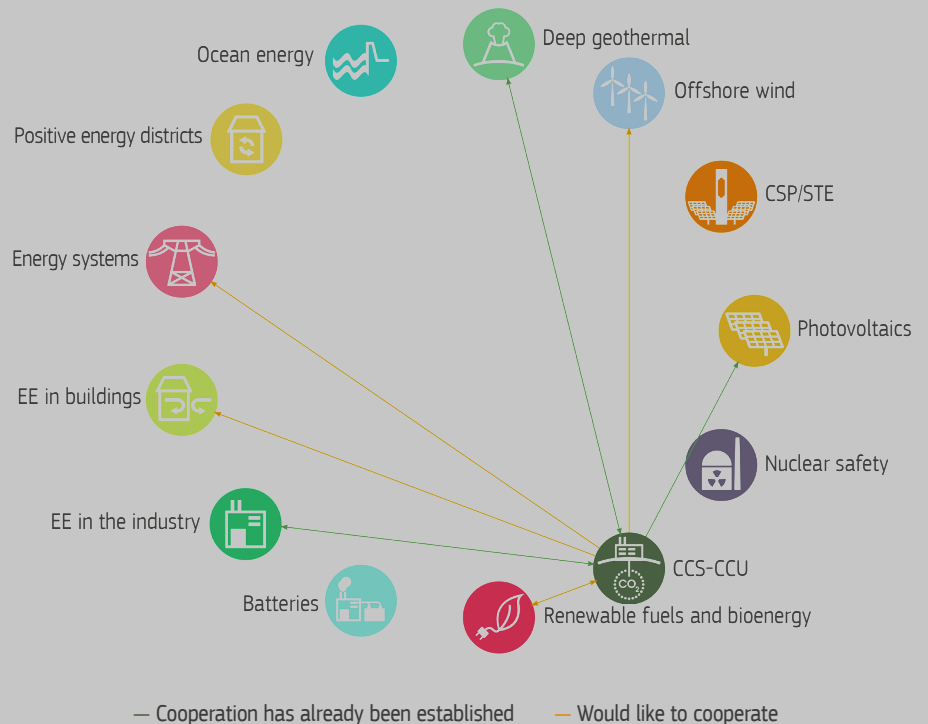


Figure 2 Collaboration with the IWGs



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Note: The document is based on and elaborated strictly on the inputs received from the Implementation Working Group.  
The updated CCS-CCU SET Plan targets are available [here](#).

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