

# Deliverable 5.3

WORKSHOP WITH STAKEHOLDERS NO.1

MARCH 2022



**Project's name: IMPACTS9.** IMPACTS9 is a Horizon 2020 project (Coordinated and Support Action) funded by the European Commission for 3 years (from 1 May 2019 until 30 April 2022). Its purpose is to accelerate the progress realised within the CCUS SET-Plan and to support delivery of the R&I activities in the CCUS Implementation Plan.

<https://www.ccus-setplan.eu/>

### Disclaimer

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## Glossary

Abbreviation/Acronym	Meaning
CCS	Carbon Capture and Sequestration
CCSA	Carbon Capture and Sequestration Association
CCU	Carbon Capture and Use
CO2VE	CO <sub>2</sub> Value Europe
GA	Grant Agreement (n° 842214)
IWG9	Implementation Working Group 9
SET Plan	Strategic Energy Technology Plan



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## Context

The workshop was organized by IMPACTS9 in cooperation with the CCUS Project Network<sup>1</sup> at Schiphol Airport on October 16, 2019.

### The SET-Plan

The European Strategic Energy Technology Plan (SET Plan) is a European initiative that has been launched in 2007<sup>2</sup> by the European Commission. It aims to accelerate the development and deployment of low-carbon technologies. It seeks to improve new technologies and bring down costs by coordinating national research efforts and helping to finance projects.

The SET Plan promotes research and innovation efforts across Europe by supporting the most impactful technologies in the EU's transformation to a low-carbon energy system. It promotes cooperation amongst EU countries, companies, research institutions, and the EU itself.

In September 2015, the Commission published a [Communication](#) defining the new European research and innovation strategy for the coming years. The Integrated SET Plan builds on the Energy Union strategy and highlights the areas where the EU needs to strengthen cooperation with SET Plan countries and stakeholders to bring new, efficient and cost-competitive low-carbon technologies to the market faster and in a cost-competitive way.

The implementation of the SET-Plan builds on the work from the IWG9 (previously named TWG9) working on Carbon Capture and Sequestration (CCS) and Carbon Capture and Use (CCU). In 2017, the SET-Plan Implementation has been adopted<sup>3</sup> and set a series of objectives and targets that must be reached toward 2020 for most of them, or on a longer term for others.

### IWG9

In 2017, the IWG9 was composed of 11 SET-Plan countries (the Czech Republic, France, Germany, Hungary, Italy, Norway, the Netherlands, Turkey, Spain, Sweden and the UK), industrial stakeholders, non-governmental organisations and research institutions.

The IWG9 aims at attracting more countries, more funders, and more stakeholders in order to accelerate the development of new technologies and the deployment of existing ones, so that the different targets could be met.

The IWG9 secretariat is ensured by CCSA, who is the leader of the IMPACTS9 project. The IWG9 meets at least once every 6-months in a plenary session. It is composed of different subgroups dealing with:

- Full-scale projects, clusters and infrastructure

<sup>1</sup> <http://ccusnetwork.eu/>

<sup>2</sup> [A European strategic energy technology plan \(SET Plan\) - Towards a low carbon future \(COM\(2007\)723\)](#)

<sup>3</sup> SET-Plan ACTION n°9 - Implementation Plan – 21.09.2017 [https://setis.ec.europa.eu/system/files/set\\_plan\\_ccus\\_implementation\\_plan.pdf](https://setis.ec.europa.eu/system/files/set_plan_ccus_implementation_plan.pdf)



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- CO<sub>2</sub> Capture
- CO<sub>2</sub> Storage
- CO<sub>2</sub> Utilisation
- Modelling

## IMPACTS9

“Implementation Plan for Actions on CCUS Technologies in the SET Plan” is a Horizon2020 project (Coordinated and Support Action) funded by the European Commission for 3 years. The project has officially started on May 1<sup>st</sup>, 2019.

The consortium is composed of four partners, including BGS, CCSA, CO<sub>2</sub> Value Europe, and SINTEF. The overarching objective of the project is to support the realisation of the SET Plan Implementation Plan on CCS and CCU. IMPACTS9 will support delivery of the R&I activities outlined in the Implementation Plan for CCUS through the provision of coordination and support to the key public and private stakeholders that are well placed to progress the SET-Plan Implementation Plan actions in the near term. IMPACTS9 will establish sub-groups to support delivery of the R&I activities and progress CCUS. Each work package is designed to support the work of these sub-groups in delivering the R&I activities.

## CCUS Project Network

The CCUS Projects Network is financed by the European Commission under service contract No ENER/C2/2017-65/SI2.793333. The CCUS Projects Network represents and supports major industrial projects under way across Europe in the field of carbon capture and storage (CCS) and carbon capture and utilisation (CCU). By sharing knowledge and learning from each other, the project members will drive forward the delivery and deployment of CCS and CCU, enabling Europe’s member states to reduce emissions from industry, electricity, transport and heat. The CCUS Projects Network is managed by a Secretariat, which provides expert support and guidance for project members. The Secretariat is formed of representatives from the consortium partners, including Bellona, Dechema, SCCS, SINTEF, TNO and Trinomics (leader of the secretariat).



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## Workshop with stakeholders No.1

### Objectives of the workshop

The joint IMPACTS9/CCUS Projects Network workshop is part of the communications and dissemination effort of IMPACTS9. As such, primary objectives are to promote communication with public and private stakeholders that can deliver the R&I activities and expand the network by engaging additional relevant stakeholders.

For this first webinar it was decided to have a focus on industry engagement. Industry is leading the large scale CCUS projects currently under development and will be the ultimate responsible of CCUS deployment. Therefore, it was evaluated of primary importance to strengthen the communication between the various industry actors and with the European Commission as well (via projects like IMPACTS9 and CCUS Project Network).

The structure of the workshop was designed to:

- Provide an overview of SET-Plan and the work of IWG9
- Provide an overview into current European work processes in the area of CCUS
- Offer a platform to provide perspectives and inputs into strategic thematic areas

By seeking inputs from industry, the workshop aimed to:

- Identify industry needs and potential barriers to the delivery of the targets of the implementation plan
- Define R&I priorities for enabling CCUS
- Get feedbacks on the necessity to update the targets of the implementation plan
- Define roadmaps to reach the updated targets

Another objective pursued by this first workshop was the important coordination with other European initiatives by means of the collaboration with the CCUS Project Network.

### Contents of the workshop

The joint meeting of the CCUS Projects Network and the SET-plan CCS/CCU IWG9 (IMPACTS9 project) included a first plenary session, followed by breakout sessions on strategic thematic areas.

During the plenary, the objectives of the CCUS Projects Network as well as the IMPACTS9 project were discussed, and feedback from the EC/ZEP workshop on CCS and the Innovation Fund was provided. An opportunity was also given to all projects to present themselves.

At the afternoon working group sessions, which were themed (see below), attendees discussed three crucial topics for CCUS development in detail in order to set the agenda for future meetings and outputs from the Network.



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- **Policy, regulation and public perception**

This group discussed preparing for the Innovation Fund call together with blending policy instruments and combining national and European funding. It also had feedback from the International Marine Organisation on London Protocol developments and discussed future public perception activities.

- **CO<sub>2</sub> capture and utilisation / SET-plan CCS/CCU**

Discussion was centred around CO<sub>2</sub> capture in industrial clusters. This included the importance of messaging on the feasibility of CO<sub>2</sub> capture and of getting the numbers right on the environmental impacts of CO<sub>2</sub> capture.

- **CO<sub>2</sub> transport, storage and networks / SET-plan CCS/CCU**

The three areas discussed in this group covered managing CO<sub>2</sub> composition standards in multiuser transport networks, developing operational plans for CO<sub>2</sub> storage sites and what is needed to realise CO<sub>2</sub> storage pilots.

The thematic areas cover most of the subgroups in which the IWG9 is organized ensuring consistency with the strategic approach outlined in the SET-Plan. In the breakout sessions moderators from both IMPACTS9 and the CCUS Project Network helped guiding the discussion.

### Participation to the workshop

The workshop had a focus on industry, therefore most of the attendees were selected among the potential end-users of CCUS technology. Over 30 people registered and took part to the workshop. The key industrial projects under way across Europe in the field of carbon capture and storage (CCS) and carbon capture and utilisation (CCU) were well represented. This constitutes a big achievement which increases the confidence to be able to get the most relevant inputs to advance large-scale CCUS deployment. The industrial projects represented included – but were not restricted to:

- ERVIA CCUS
- LEILAC
- Northern Lights
- Everest
- TCM

For what concerns IMPACTS9, representatives from each consortium partner were present at the workshop and ensured participation to all three breakout sessions.

### Main outcomes

The plenary session provided the attendees with tools to understand how to increase their engagement and influence in European work processes, with IMPACTS9 as an effective medium to ease communication



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between the European Commission and industry. Active participation in the discussion, with frequent questions and feedbacks, was beneficial to all parties.

The breakout sessions were characterized by very good interactions between the moderators and the attendees which resulted in productive discussions around the topics proposed. The attendees confirmed the importance of those focus areas in advancing CCUS and in reaching the targets of the implementation plan. Follow-up actions were identified collectively as well as strategic thematic areas for future workshops and webinars. Overall, industry and representative of major CCUS projects in Europe were able to convey their perspective on the status of CCUS and on their needs to increase their engagement. The members of IMPACTS9 took note of those inputs so to convey them to IWG9.

Reconvening in plenary, the moderators summarized the discussions from the breakout sessions. Some key points were highlighted, for instance:

- Centrality of industrial clusters in European CCUS deployment
- Role of waste-to-energy
- Importance of storage appraisal

The attendees expressed a positive judgement towards the workshop. A demand for a longer notice was made in order to give the time to the attendees to plan better their participation. IMPACTS9 and the CCUS Project Network welcome this request as sensible and committed in that sense.

Moreover, the successful collaboration between IMPACTS9 and the CCUS Project Network led to the decision to continue the collaboration and to coordinate work between the two projects. The attendees showed general consensus towards this.



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