

# Goals, network structure and thematic groups

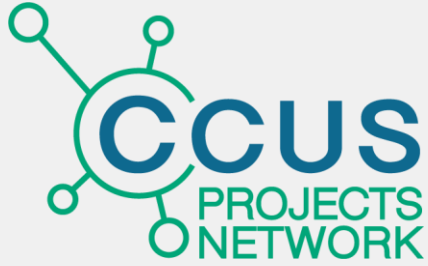
Tom Mikunda

TNO

Date: 27/05/2019



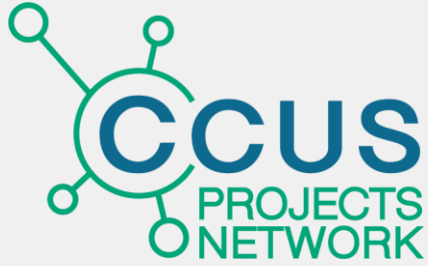
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# Network goals

- De-risk CCUS and encourage its delivery at commercial-scale
- Accelerate CCUS deployment in light of the urgent need for climate action
- Encourage public engagement to increase understanding of CCUS technologies
- Offer policy, regulatory and market advice to existing and potential projects
- Identify future R&D needs not already met

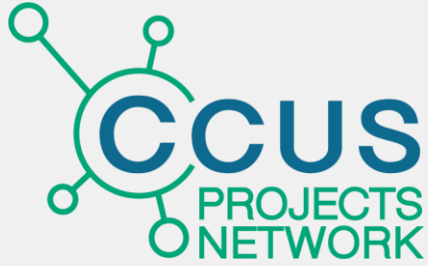




# Alignment with SET-Plan objectives

- The development of full-chain commercial CCS projects in the power and industry sector;
- A focus on advancing CCS and CCU industrial clusters;
- The identification of processes to add value to capture CO<sub>2</sub> (CCU);
- The establishment of a CO<sub>2</sub> transport Project of Common Interest;
- Creating and inventory, or atlas, of suitable and cost-effective CO<sub>2</sub> storage sites.

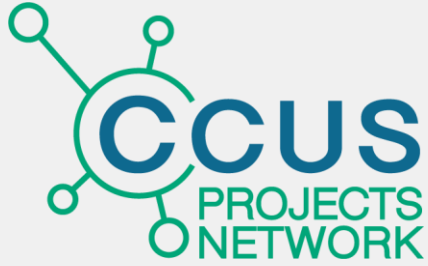




# Guiding principles for network

- Maximise knowledge sharing through thematic groups
- Provide a secure setting to allow the exchange of information not-currently in the public domain
- Minimise the burden on network members through efficient information gathering and taking responsibilities for all network outputs

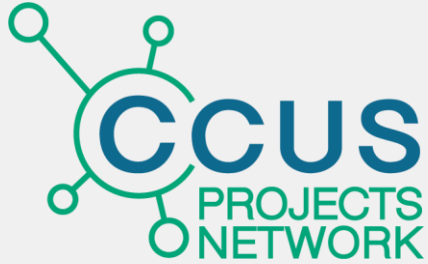




# Membership process

1. a) Pre-selection by network secretariat  
b) Voluntary application
2. Completion of Expression of Interest
3. Positive approval? Completion of Project Questionnaire
4. 2-page project Inception Report completed by Secretariat
5. Approval of Inception Report by network member

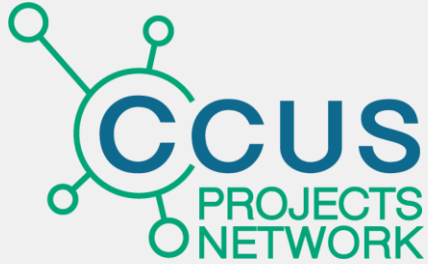




# Membership benefits

- Sharing best practice
- Sharing permitting and regulatory experiences
- Access to dissemination & knowledge exchange expertise
- Advice on public engagement & shared experience
- Engaging with EU officials during knowledge exchange
- Developing solutions to common problems
- Members-access knowledge hub

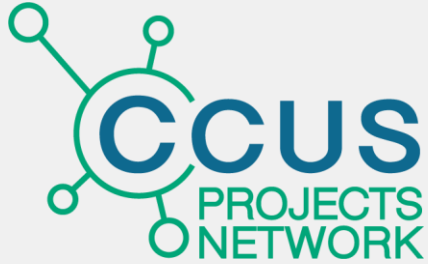




# Network actors and stakeholders

- **Network secretariat** - Establish and manage network, chairing steering committee, organising events, gather, analyse and disseminate knowledge
- **Steering committee** - Comprised of EC and network member representatives, chaired by network PM. Defining network activities, providing strategic guidance
- **Network members** - CCUS projects that meet the eligibility guidance
- **European Commission** - Provides overall strategic direction both through Steering Committee but also regular project meetings with the network secretariat
- **Wider CCS and CCU community** - Including ETP ZEP, IEA, CSLF, CEM, and particularly the IMPACTS9 project. Acts as both useful input in shaping network focus but also as a key target audience for network outputs
- **General public** – Another primary target audience of the network. Dissemination and educational events will be undertaken to increase awareness and acceptance for CCUS



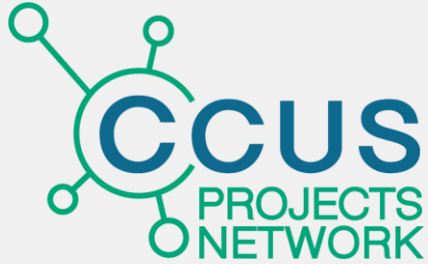


# Project eligibility

- The previous EU CCS Demonstration Project Network had stringent eligibility criteria. The focus was on CCS on coal-fired power plants.
- The new network's focus needs to reflect the current CCUS project developments:
  - Shift from CCS on coal-fired power to a broad range of industrial applications
  - No full-scale projects currently receiving direct EU funding support
  - Hence, participation in the network will be on a voluntary basis
  - SET-Plan objectives on capture, transport, storage and utilization
- Eligibility guidance has been significantly altered to allow a broader range of projects at stages of development to participate, however industry backing and scale-up potential remain paramount.



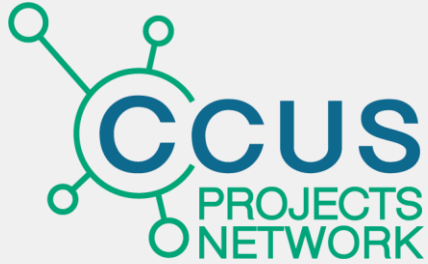




# General eligibility guidelines

- a) have a clear objective and plan to deploy, or enabling deployment of, a substantial CCUS facility;
- b) have potential to progress, contribute to, or deliver at least one of the agreed targets, R&I activities or flagship activities of the SET-plan;
- c) have a dedicated project owner, and explicit support from industry when an industry is not the project owner;
- d) have an understanding of the lifecycle impacts of their proposals and can show these are environmentally beneficial, and specifically beneficial to achieving CO<sub>2</sub> emission reduction targets;
- e) have a commitment to strengthening European CCUS industry through sharing and absorbing knowledge with/from others;
- f) have a commitment to public engagement to help enable the project but also to improve awareness and acceptance of CCUS in general.



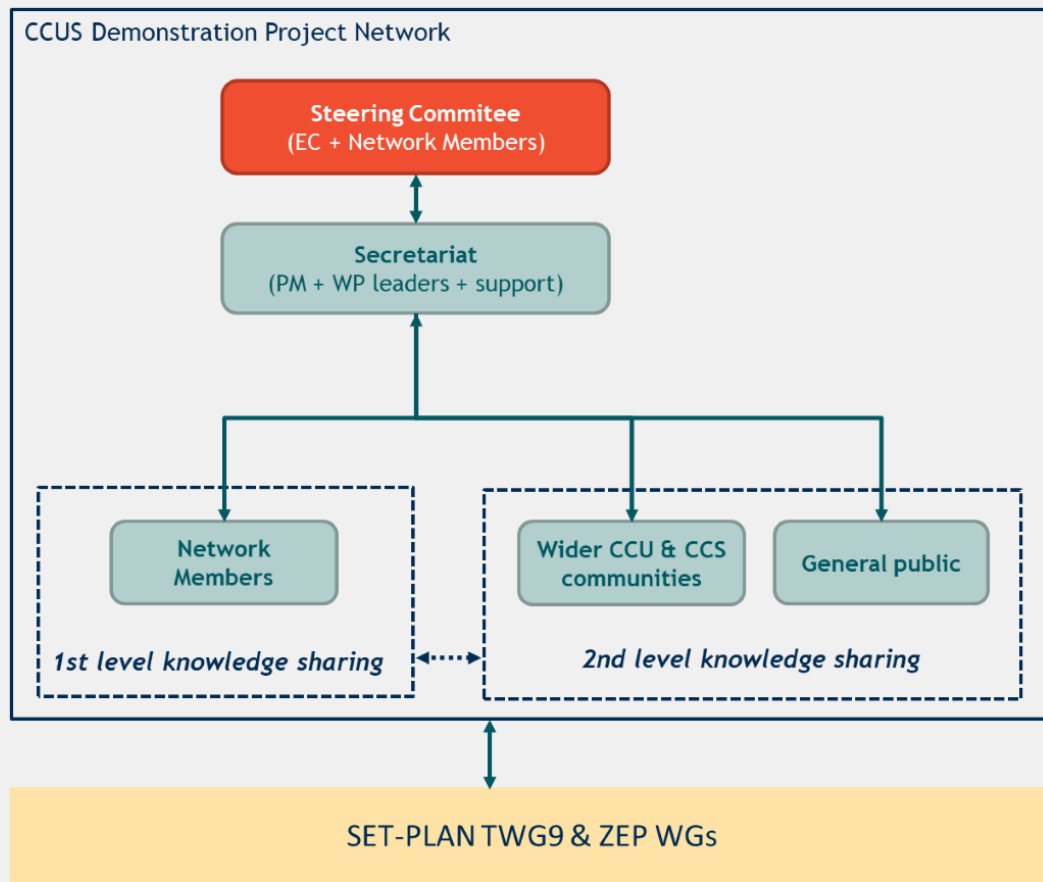


# Project specific criteria

- **Capture** technologies in the network should demonstrate a technology readiness level of 5 or above.
- **Storage** projects in the network should involve clearly defined storage formations, which have either completed site characterisation and assessment or are in the process of doing so.
- **Transport** projects in the network should have a clearly defined CO<sub>2</sub> source and sink.
- For **Projects of Common Interest (PCIs)**, the project should be approved by the European Commission, or awaiting notification following a submission. PCIs in preparation may be considered for inclusion if plans are deemed to be at a sufficiently advanced stage by the Secretariat.
- These principles may be developed or added to through discussion between Network members, Secretariat and the Commission.



# Network structure and themes

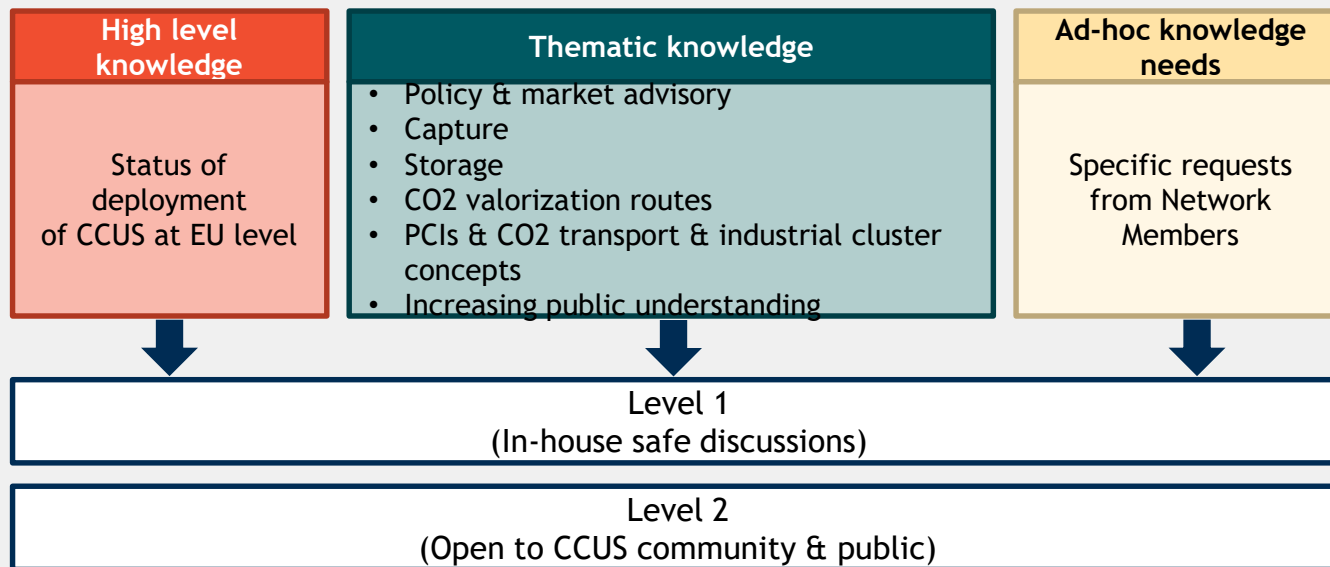


- **Level 1 knowledge sharing** - only available to network members. If requested arrangements can be made for further restrictions, for example by restricting information to thematic groups.
- **Level 2 knowledge sharing** – Open knowledge, focused on external stakeholders.
- All knowledge outputs derived from network members to require formal sign-off.



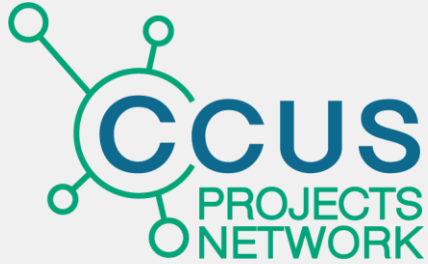
# Knowledge sharing approach

- Network Members to be organised into ‘thematic groups’ in order to maximise the relevance of knowledge sharing
- Thematic groups to be led by experts from within the Network Secretariat
- Thematic groups meet on a quarterly basis



Policy and market	Tom Mikunda/Justus Andreas	TNO/ Bellona
Capture	Kristen Jordal/Earl Goetheer	SINTEF/TNO
Storage	Lydia Rycroft/Filip Neele	TNO
CO <sub>2</sub> valorisation	Dennis Kramer/Oliver Hurtig	DECHEMA
PCI / CO <sub>2</sub> transport	Pete Brownsort/Jessica Yearwood	SCCS/ Trinomics
Public understanding	Simon Shackley/Philippa Parmiter	SCCS



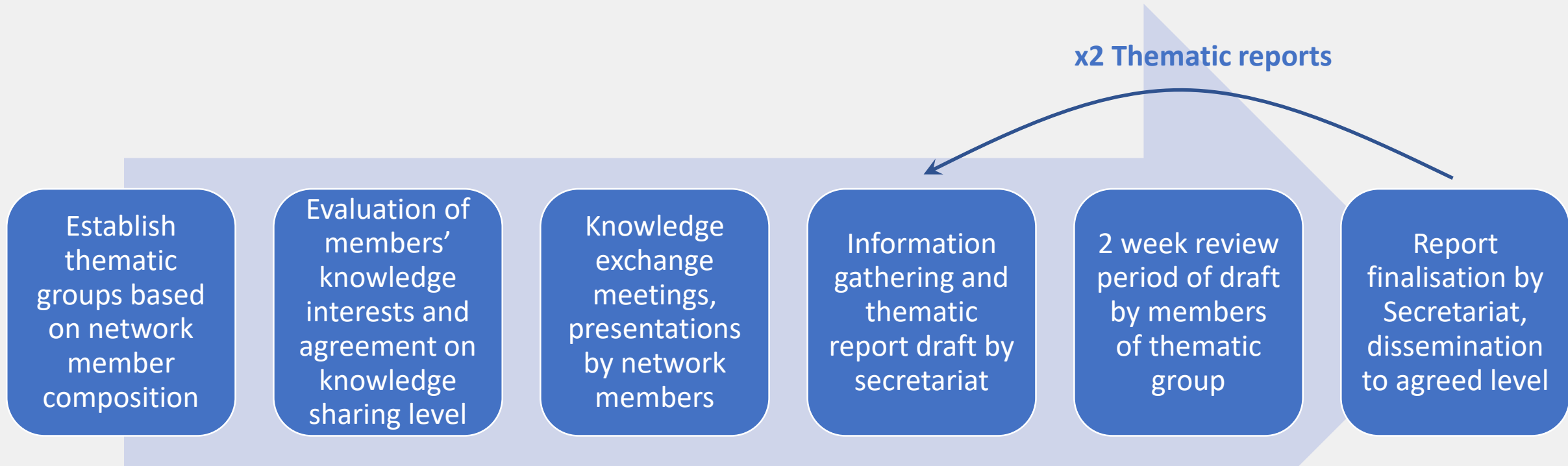


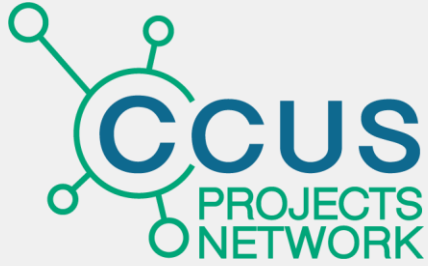
# Potential topics for thematic groups

- **Policy and market advisory** - focus on EU policies needs, Innovation Fund developments, business case evaluation, storage and transport liability
- **Capture** - Operational and capital expenditure. Aerosol formation and solvent degradation in post-combustion systems. Novel capture applications in industry
- **Storage** - Best practise in storage permit acquirement, site conformance, monitoring plans, remediation measures, operational management of multiple sites
- **CO<sub>2</sub> valorisation** - Process efficiency, capture integration, product costs and market demand, carbon abatement potential
- **PCIs, CO<sub>2</sub> transport** - Best practise on PCI development and proposals, technical, legal and economic challenges to multi-user CO<sub>2</sub> transport networks.
- **Public understanding** – Approaches to local communication strategies for large-scale CCUS projects, best practises with public engagement



# Thematic group operation

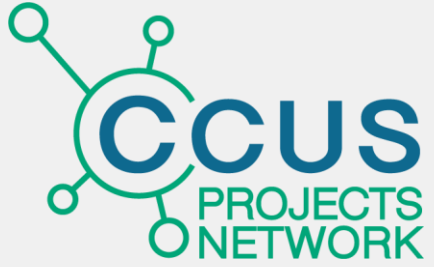




# Final points

- Primary knowledge outputs to be derived through thematic groups. Two thematic reports per group during remaining project period.
- Thematic reports completed by secretariat using inputs from network member presentations, meeting discussions, and project questionnaires
- Thematic groups to be finalised based on initial composition and interests of network members
- Knowledge sharing interests and dissemination level to be agreed prior to knowledge exchange
- NDA's can be organised by secretariat where necessary





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# Practical Issues For Members

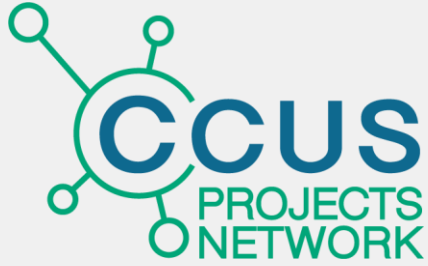
Liliana Guevara Opinska

Trinomics

Date: 27/05/2019



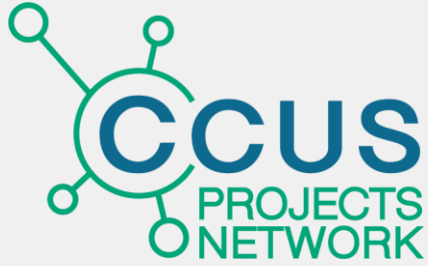
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# This is your Network!

- We are here for you!
- We can provide flexibility based on the needs of our Members

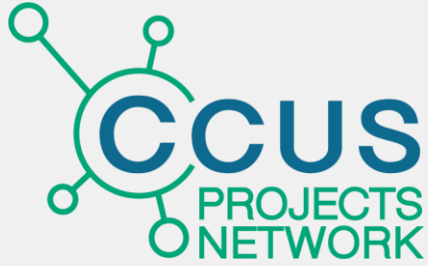




# Project initiation info

- What we need:
  - Contact information and backup contact
  - Project logo and short description of the project to be uploaded to the website
  - Further Project details
  - Themes/areas of interest for the Project

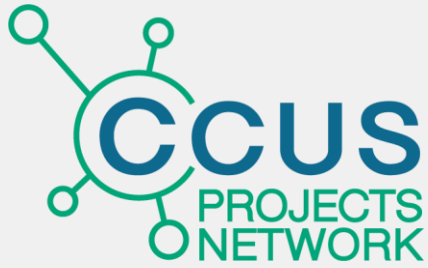




# Information sharing and confidentiality

- Information sharing is on voluntary basis
- Two-levels of information exchange: internal and with the public
- MoU and NDA if needed: to be discusses with Projects on an individual basis
- **We are committed to ensuring the confidentiality of your data**





About the Network

Knowledge Hub

CCUS in Europe

Network Members

News and events

# Website

News and events  
Knowledge hub  
Thematic reports  
Annual reports



## About the Network

Sharing knowledge, transforming industry, reducing emissions

The CCUS Projects Network comprises and supports major industrial projects under way across Europe in the field of carbon capture and storage (CCS) and carbon capture and utilisation (CCU). Our Network aims to speed up delivery of these technologies, which the European Commission recognises as crucial to achieving 2050 climate targets.

[READ MORE >>](#)

[HOW TO JOIN >>](#)



Network Members



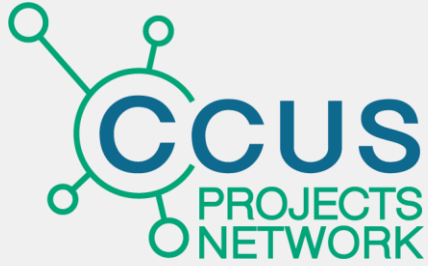
Knowledge Hub



CCUS in Europe



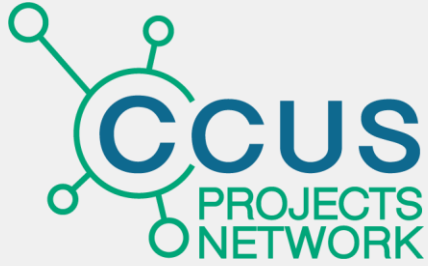
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# Staying connected

- Website
- Sign up for newsletter
- Events feed
- Follow us on social media
  - Twitter @ccusnetwork
  - LinkedIn European CCUS Projects Network
  - YouTube

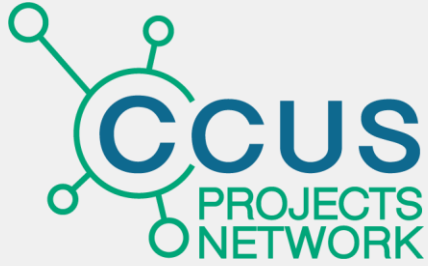




# Traveling to Meetings

- Travel and accommodation can be reimbursed on the basis of the following:
  - Flight: economy class ticket; train: second class ticket based on the most economical route
  - Accommodation: 1 night at a maximum of € 130 per night
  - We are not able to cover any subsistence allowance and meals other than those included in the programme





# First Contact

## Contact Information:

Liliana Guevara Opinska

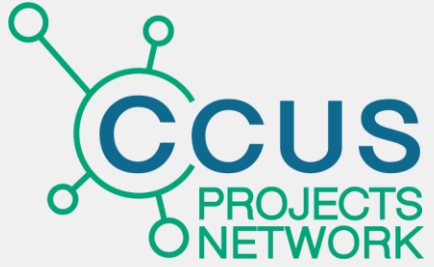
Square de Meêus 24, 1000 Brussels, Belgium

[liliana.guevara@trinomics.eu](mailto:liliana.guevara@trinomics.eu)

Tel:+31 (0) 6 1340 7415







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