CCS+ Initiative: Introduction, overview and relevance for industry stakeholders

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CCS+ Initiative

Agenda

- Why CCS+?
- Members
- Work plan
- Benefits from joining CCS+
1. Why CCS+?

Context of the CCS+ Initiative:

- Limiting global warming to 1.5 to 2°C requires carbon capture and storage (CCS), in its various forms (+), including both sequestration and utilization.
- CCS+ activities represent key technology solutions for achieving both emission reductions and carbon removals.
  - CCS could play a critical role in reducing emissions from fossil sources as well as supporting circular economy (utilization) efforts.
  - CCS technologies could also generate permanent carbon removals when combining CCS with CO$_2$ from biomass (BECCS) or with direct air capture (DACCS) or through mineralization processes.
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1. Why CCS+?

Objectives of the CCS+ Initiative:

- Unlocking and scaling-up CCS-related climate action in carbon markets, with an initial focus on project-based methodologies for the Voluntary Carbon Market and Article 6.

- Delivering a high-integrity, integrated methodological framework for generating carbon credits from the full suite of CCS activities.

- Broad scope and collaborative approach ensure impactful results and a cost-efficient approach.
# CCS+ Initiative

## 2. Members

### Advisory Group
- IETA
- ICROA
- wbcsd
- ZEP
- OGCI
- TNO innovation for life

### Carbon Consultants
- perspectives climate group
- south pole

### Core Partners
- Low Carbon Ventures
- Carbon Finance Labs
- Northern Lights
- TotalEnergies
- Equinor
- Mitsubishi Corporation

### Partners
- Fortum

### Technology Partners
- Carbon Engineering
- Climeworks
- Carbfix
- Carbyon

### Standard Setting Body
- Verra
3. Work plan

- **Modules** are grouped along the CCS value chain, i.e. in capture modules, transport modules, and storage modules.

- **Staggering approach**: Methodology and tool development will be phased, starting with the most mature and impactful use cases.
3. Work plan

Development of **complementary toolsets** for “compliance” purposes under various regulatory schemes:

- **Supra-national level**
- **National level**
- **Regional level**
- **Project level** (methodology framework + modules)

**MRV FRAMEWORKS**
- Policy instrument design (Article 6, Subsidy schemes, tax rebates, …)
- Cross-border accounting
- VCM and compliance markets

**INNOVATION**
- Financing, piloting & scaling

**Complementary toolsets**
- Compliance with voluntary carbon markets
- Compliance with Article 6 transactions
- EU compliance (e.g. EU ETS)
- Compliance with other regional and domestic ETS
- Compliance with baseline-credit schemes
- Compliance with domestic regulations
- Linkage to CCS Protocol and regulatory incentives (45Q)
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3. Work plan

- **Package 1a deliverables**
  - Methodology framework
  - 5 capture, 2 transport and 2 storage modules

- **Package 1b deliverables**
  - Additional storage modules

- **Package 2 deliverables**
  - Additional transport and storage modules
  - Compliance tools

- **Package 3 deliverables**
  - Additional transport and storage modules
  - Additional compliance tools

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Timeline Package 1a, 1b, 2, 3 deliverables

- **Objective Package 1a:**
  - Approved methodology framework + modules
  - April 2022

- **Objective Package 1b:**
  - Approved modules
  - June 2022

- **Objective Package 2:**
  - Approved modules and compliance tools
  - October 2022

- **Objective Package 3:**
  - Approved modules and compliance tools
  - April 2023
## CCS+ Initiative

### 3. Work plan

<table>
<thead>
<tr>
<th>WGs &amp; Modules developed under Package 1a</th>
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<tbody>
<tr>
<td><strong>WG 2: Capture modules</strong></td>
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<tr>
<td>Module 2.1: Capture from air (i.e. DAC)</td>
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<tr>
<td>Module 2.2: Capture from combustion (i.e. post-combustion, e.g. power plants, cement plants, WtE)</td>
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<td>Module 2.3: Capture from CO2-rich gases (e.g. H2 production by steam reforming, ethanol, waste(water) treatment)</td>
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<td>Module 2.4: Capture from oil and gas production (e.g. native CO2/acid gas, LNG production)</td>
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<td>Module 2.5: Capture from biogenic sources (to be used in combination with modules above)</td>
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<tr>
<td><strong>WG 3: Transport modules</strong></td>
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<td>Module 3.1: Transport via pipeline</td>
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<td>Module 3.2: Transport via ships</td>
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<td><strong>WG 4: Storage modules</strong></td>
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<td>Module 4.1: Storage in aquifers</td>
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<td>Module 4.2: Storage in depleted oil and gas fields</td>
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4. Benefits from joining CCS+

Strengthening and deepening collaboration and partnership amongst carbon market stakeholders

Shaping the CCS+ ecosystem

Ready-made methodologies for industries for carbon credit generation in CCS
Join us

Contact the Secretariat via mail:

info@ccsplus.org