Objective

The European cement industry has committed itself to contributing to climate protection measures and therefore to curbing its CO2 emissions. CO2 capture technologies, although an essential part of all CO2 reduction scenarios, are not yet ready for large-scale deployment in the cement industry. Hence, the primary objective of CEMCAP is

To prepare the ground for large-scale implementation of CO2 capture in the European cement industry

To achieve this objective, CEMCAP will

- Leverage to TRL 6 for cement plants the oxyfuel capture technology and three fundamentally different post combustion capture technologies, all of them with a targeted capture rate of 90%.
- Identify the CO2 capture technologies with the greatest potential to be retrofitted to existing cement plants in a cost- and resource-effective manner, maintaining product quality and environmental compatibility.
- Formulate a techno-economic decision-basis for CO2 capture implementation in the cement industry, where the current uncertainty regarding CO2 capture cost is reduced by at least 50%.

For successful large-scale deployment of CO2 capture in the cement industry, technologies must be developed beyond the current state of the art. In order to bring the most high-potential retrofittable CO2 capture technologies to a higher TRL level and closer to implementation, CEMCAP will

- Describe the routes for the development required to close technology gaps for CO2 capture from cement
and assist technology suppliers along the related innovation chains.

- Identify and follow up minimum five potential innovations springing from CEMCAP research.

Technologies suitable for CO2 capture retrofit are focused on in CEMCAP, because cement plants typically have a lifetime of as long as 30-50 years. However, the results from CEMCAP will enable looking beyond this horizon. Therefore, CEMCAP will

- Create pathways for the low to near-zero CO2 emission cement production of the future.

**Programme(s)**

H2020-EU.3.3.2.3. - Develop competitive and environmentally safe technologies for CO2 capture, transport, storage and re-use

**Topic(s)**

LCE-15-2014 - Enabling decarbonisation of the fossil fuel-based power sector and energy intensive industry through CCS

**Call for proposal**

H2020-LCE-2014-1

See other projects for this call

**Funding Scheme**

RIA - Research and Innovation action

**Coordinator**

![SINTEF ENERGI AS](image)

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<td>Sem Saelandsveg 11</td>
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<td>€ 2 335 000</td>
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<td>7465 Trondheim</td>
<td></td>
<td></td>
</tr>
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<td>Norway</td>
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Website

Contact the organisation

**Participants (15)**
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<tr>
<td>EUROPEAN CEMENT RESEARCH ACADEMY GMBH</td>
<td>€ 25,000</td>
<td>Tannenstrasse 2 40476 Duesseldorf</td>
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<td>GE CARBON CAPTURE GMBH</td>
<td>€ 80,000</td>
<td>Lorenz Schott Strasse 4 55252 Mainz Kastel</td>
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<td>GE POWER SWEDEN AB</td>
<td>€ 428,400.45</td>
<td>N/A 601 87 Norrkoping</td>
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<td>NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO</td>
<td>€ 417,000</td>
<td>Anna Van Buerenplein 1 2595 Da Den Haag</td>
<td>Research Organisations</td>
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**C.T.G. SPA**
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24126 Bergamo

**Activity type**
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

**EU Contribution**
€ 13 601.78

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**NORCEM AS**
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0216 Oslo

**Activity type**
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(excluding Higher or Secondary Education Establishments)

**EU Contribution**
€ 20 000

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Herzog-Erich-Allee 1
31535 Neustadt Am Rubenberge

**Activity type**
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

**EU Contribution**
€ 1 135 000

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**THYSSENKRUPP INDUSTRIAL SOLUTIONS AG**
Germany

**Address**
Thyssenkrupp Allee 1
45143 Essen

**Activity type**
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

**EU Contribution**
€ 158 916.25

Website

Contact the organisation
| **EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH** | **Address** | **Raemistrasse 101**
| Switzerland | **Activity type** | **Higher or Secondary Education Establishments** |
| **Website** | **Contact the organisation** | |

| **UNIVERSITAET STUTTGART** | **Address** | **Keplerstrasse 7**
| Germany | **Activity type** | **Higher or Secondary Education Establishments** |
| **EU Contribution** | **€ 1 993 427,75** | |
| **Website** | **Contact the organisation** | |

| **POLITECNICO DI MILANO** | **Address** | **Piazza Leonardo Da Vinci 32**
| Italy | **Activity type** | **Higher or Secondary Education Establishments** |
| **EU Contribution** | **€ 355 000** | |
| **Website** | **Contact the organisation** | |

| **AGENCIA ESTATAL CONSEJO SUPERIOR DEINVESTIGACIONES CIENTIFICAS** | **Address** | **Calle Serrano 117**
<p>| Spain | <strong>Activity type</strong> | <strong>Research Organisations</strong> |
| <strong>EU Contribution</strong> | <strong>€ 469 418</strong> | |
| <strong>Website</strong> | <strong>Contact the organisation</strong> | |</p>
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**Permalink:** https://cordis.europa.eu/project/id/641185/en

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