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)**

**Topic(s)**

**Call for proposal**

H2020-LCE-2014-1

**Funding Scheme**

RIA - Research and Innovation action

**Coordinator**

SINTEF ENERGI AS
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<td>7465 Trondheim</td>
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**EUROPEAN CEMENT RESEARCH ACADEMY GMBH**

- **Address**: Tannenstrasse 2
- **Activity type**: Private for-profit entities (excluding Higher or Secondary Education Establishments)
- **EU contribution**: € 25 000

**GE CARBON CAPTURE GMBH**

- **Address**: Lorenz Schott Strasse 4
- **Activity type**: Private for-profit entities (excluding Higher or Secondary Education Establishments)
- **EU contribution**: € 80 000

**GE POWER SWEDEN AB**

- **Address**: N/a
- **Activity type**: Private for-profit entities (excluding Higher or Secondary Education Establishments)
- **EU contribution**: € 428 400,45
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AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS
Spain
EU contribution
€ 469 418
Address
Calle Serrano 117
28006 Madrid
Activity type
Research Organisations
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VDZ GEMEINNUTZIGE GMBH
Germany
EU contribution
€ 949 939
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Toulouser Allee 71
40476 Dusseldorf
Activity type
Research Organisations
Website
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HEIDELBERGCEMENT AG
Germany
EU contribution
€ 240 000
Address
Berliner Strasse 6
69120 Heidelberg
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Website
Contact the organisation

ITALCEMENTI FABBRICHE RIUNITE CEMENTO SPA
Italy
EU contribution
€ 157 997,77
Address
Activity type