



GLOBAL CCS
INSTITUTE

WEBINAR

May
27

CCS and Cement 101: Key Concepts Explained



Wednesday 27th May 2026 3:00PM Brussels | 2.00PM London | 9.00AM Washington DC

OUR MISSION TO ACCELERATE DEPLOYMENT OF CCS

WHO



WE ARE AN
INTERNATIONAL
CCS THINK TANK

OVER

200



MEMBERS ACROSS
GOVERNMENTS, GLOBAL
CORPORATIONS, PRIVATE
COMPANIES, RESEARCH
BODIES, NGOS

WHAT



FACT-BASED
INFLUENTIAL
ADVOCACY



CATALYTIC
THOUGHT
LEADERSHIP



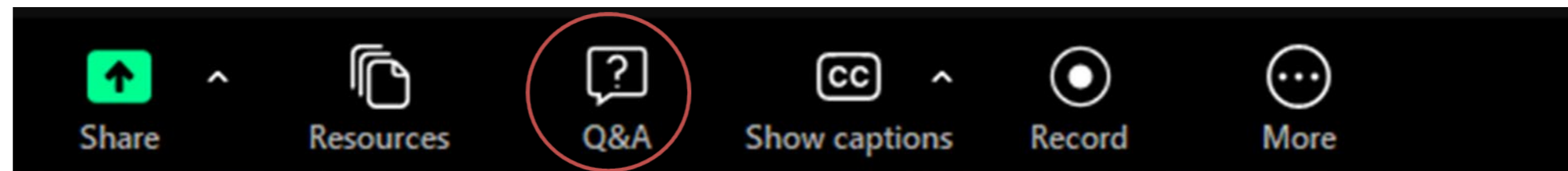
AUTHORITATIVE
KNOWLEDGE
SHARING

WHERE



BEFORE WE START

- Please note this webinar will be recorded and made available on our website within a few days.
- We will collect questions during the presentation.
- After the presentation, there will be a moderated discussion followed by audience Q&A.
- Please submit your questions through the Q&A panel on Zoom.



AGENDA

Welcome from Global CCS Institute

- Dr. Richard Leese, Head of Europe, Moderator
Global CCS Institute

Presentation on CCS and Cement

- Claude Lorea, Technical Advisor, Global CCS Institute

Moderated Discussion

- Claude Lorea, Technical Advisor, Global CCS Institute
- Dr. Richard Leese, Head of Europe, Moderator
Global CCS Institute

Audience Q&A

- Claude Lorea, Technical Advisor, Global CCS Institute
- Dr. Richard Leese, Head of Europe, Moderator
Global CCS Institute



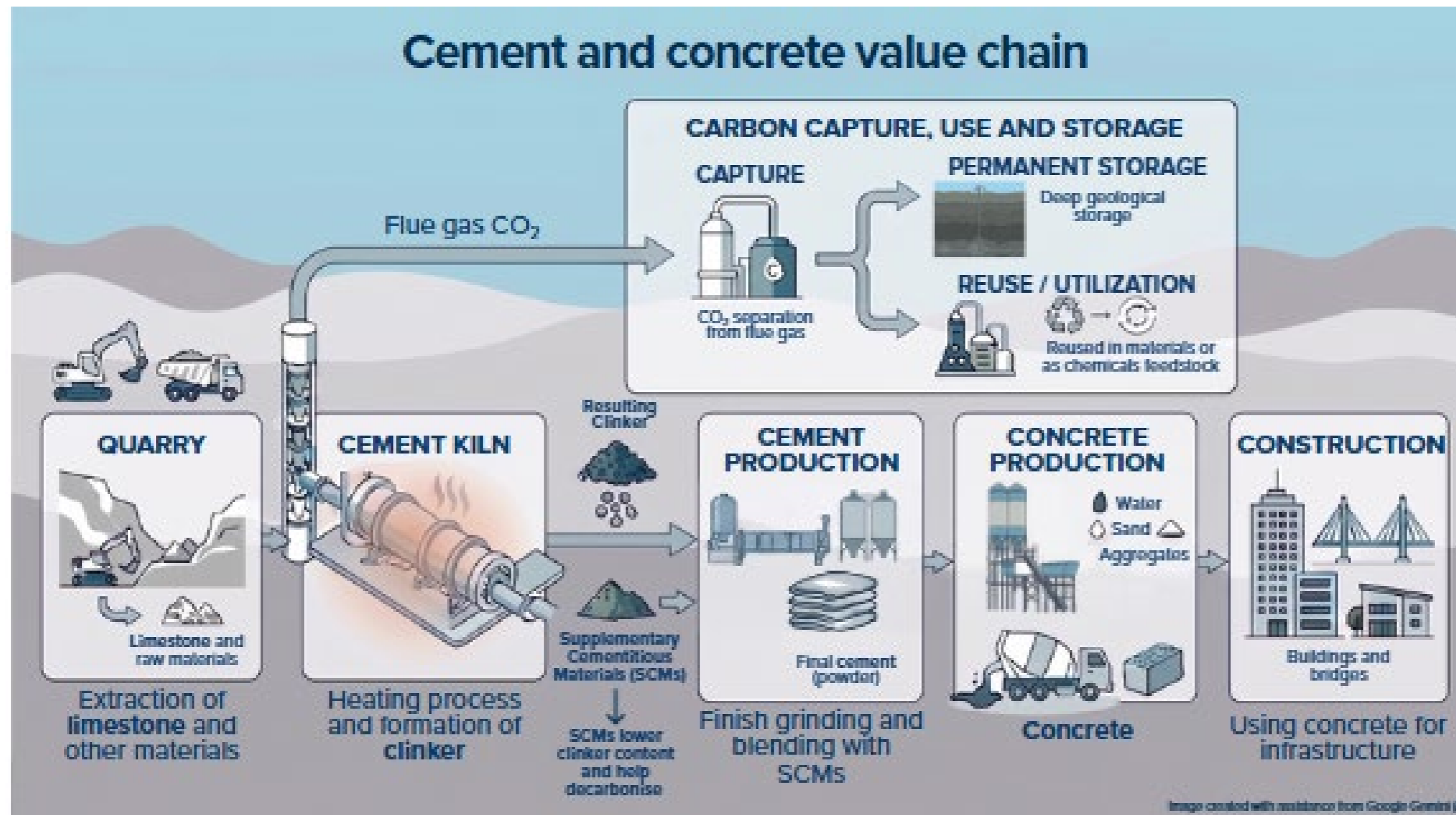
Dr. Richard Leese
Global CCS Institute
Head of Europe {Moderator}



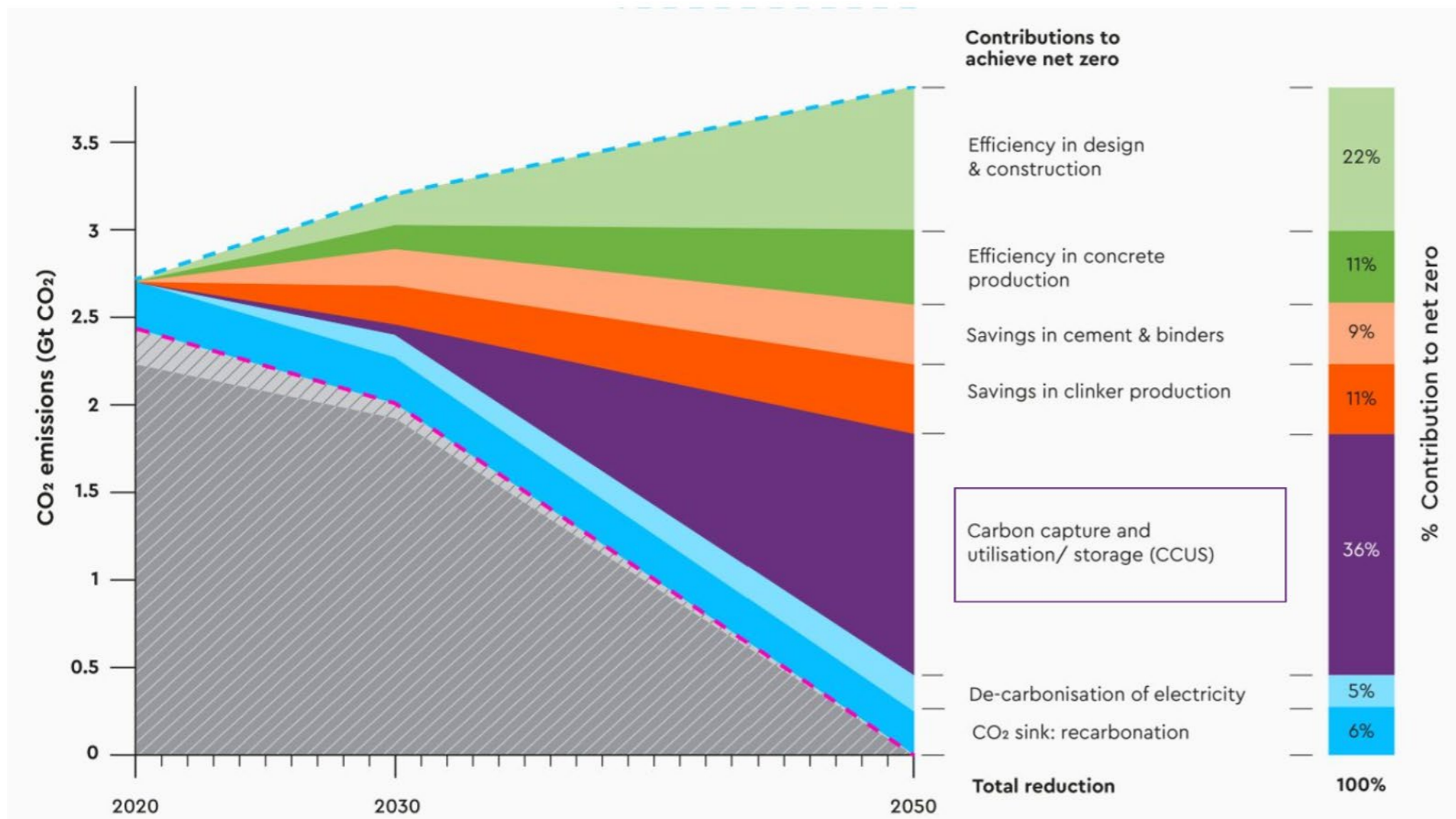
Claude Lorea
Global CCS Institute
Technical Advisor



CEMENT & CONCRETE VALUE CHAIN



THE ROLE OF CCS FOR CEMENT



Credit: Global Cement and Concrete Association (GCCA). (2021), *The GCCA 2050 Cement and Concrete Industry Roadmap for Net Zero Concrete*.

- Key role of CCUS for residual emissions – after all other levers have been implemented
- 1.4 Gt CCUS capacity projected to be needed by 2050
- Beginning 2030, a capture capacity of approximately 1.5 Mt needs to be built every week.
- 250 to 400 projects need to be in the pipeline in the early 30ties

LIGHT HOUSE PROJECTS

CCS projects are operating in the cement sector, and dozens more have been announced globally.



*Brevik CCS Facility, Norway,
image courtesy SLB Capturi and Heidelberg Materials*

Brevik CCS, Heidelberg Materials (Norway):
Capture volume: ~400,000 tonnes per annum (tpa)

- **Qingzhou Oxy-Fuel Combustion Carbon Capture Project, China United Cement (China):**
Capture volume: ~200,000 tpa
- **BBMG Beijing Cement Environmental Technology Co., Ltd. (China):**
Capture volume: ~100,000 tpa
- **Padeswood CCS, Heidelberg Materials (UK):**
Planned capture volume: ~800,000 tpa



WHAT ENABLES CCS AT SCALE

Deploying CCS at scale in cement requires a full value-chain approach, including:



- CO₂ transport and storage infrastructure, often developed through shared industrial hubs



- Clear regulatory frameworks covering permitting, liability, and long-term stewardship of CO₂ storage



- Bankable business models, supported by carbon pricing, public funding, and demand signals supported by green product standards, certificates, and labelling



- Robust monitoring, reporting, and verification and traceability tools

WHAT CAN BE DONE NOW



➤ Projects funding



➤ CO₂ transport and storage infrastructure building



➤ Creating clear enabling policies that make low-carbon cement competitive.

Feasibility studies, geologic assessments, and regional CO₂ infrastructure can lay the groundwork, while policies, like public procurement, can create reliable demand for low-carbon cement, enabling investment in all mitigation measures, including CCS.



MODERATED DISCUSSION



Claude Lorea
Global CCS Institute
Technical Advisor



Dr. Richard Leese
Global CCS Institute
Head of Europe
* MODERATOR *



GLOBAL CCS
INSTITUTE

Q&A

**Please submit your questions via Q&A on Zoom control panel
at the bottom of your screen**



THANK YOU

Global CCS Institute Resources

Find our publications:

<https://www.globalccsinstitute.com/resources>

Follow us on social media:

@GlobalCCS 

Global CCS Institute 

Further questions? Reach out: info@globalccsinstitute.com

If you would like to become a member, please contact membership@globalccsinstitute.com