



GLOBAL
CCS
INSTITUTE



DECARBONISE OVERVIEW

March 2014



3 Drivers for our approach

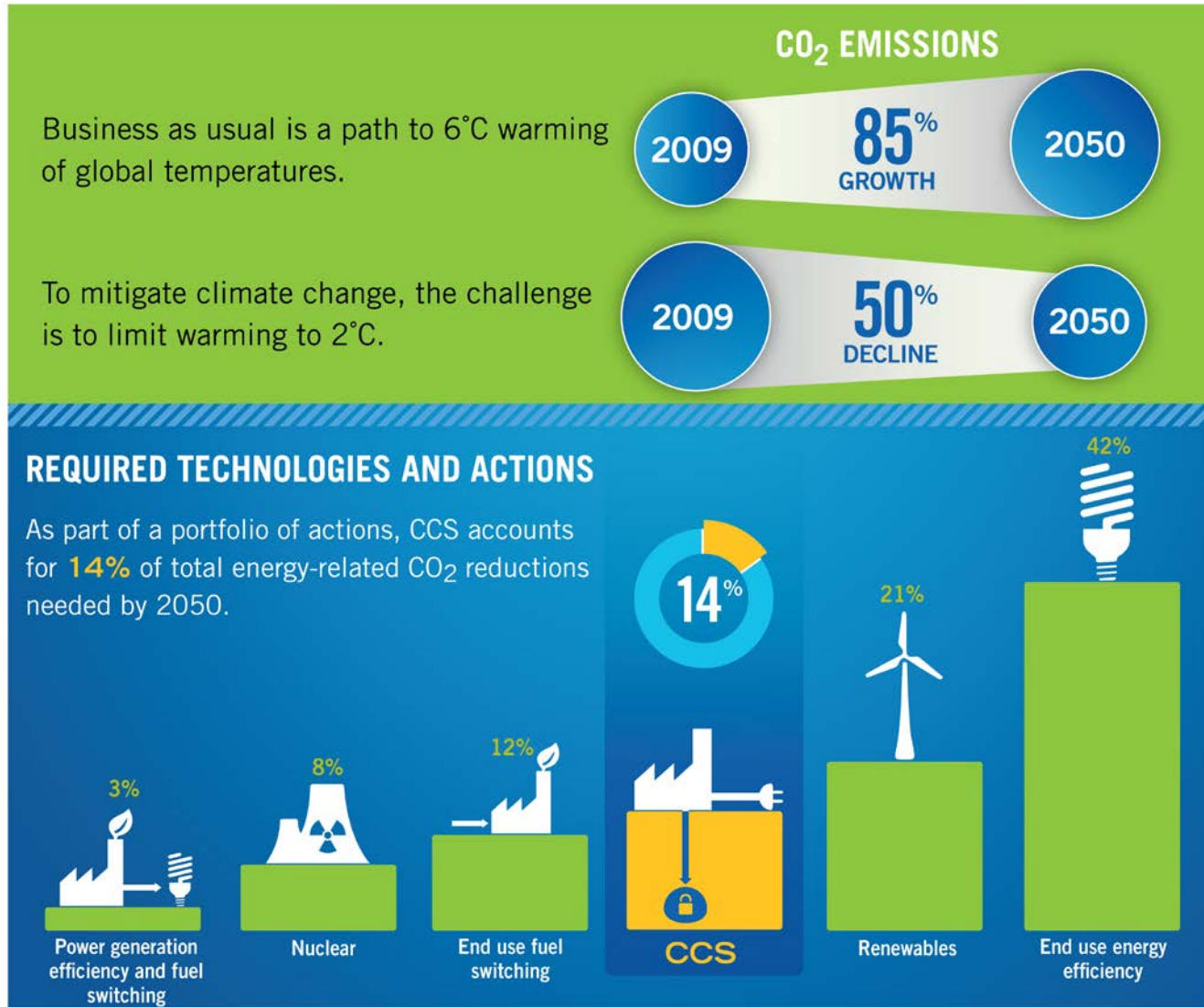
Address
Climate Change
through a
portfolio-based
approach

Accelerate
deployment of
CCS

Provide
knowledge
sharing as a
service



Address Climate Change through a portfolio based approach to decarbonisation

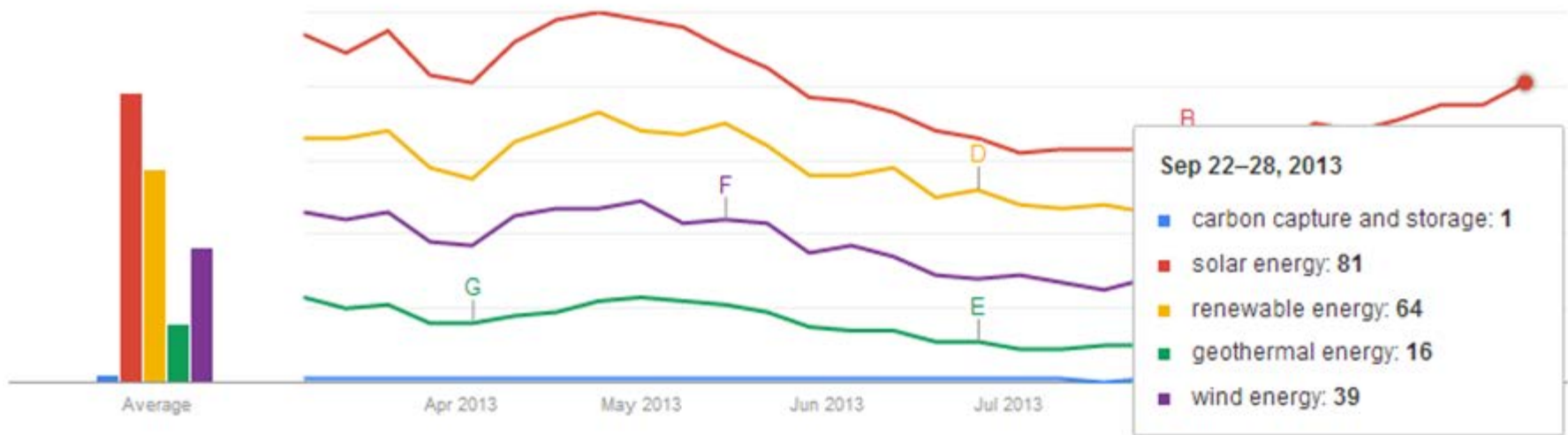


Source: IEA, *Energy Technology Perspectives*, 2012



Accelerate deployment of CCS

There is very little interest in CCS information compared with renewables.



Source: Google Trends



Accelerate deployment of CCS

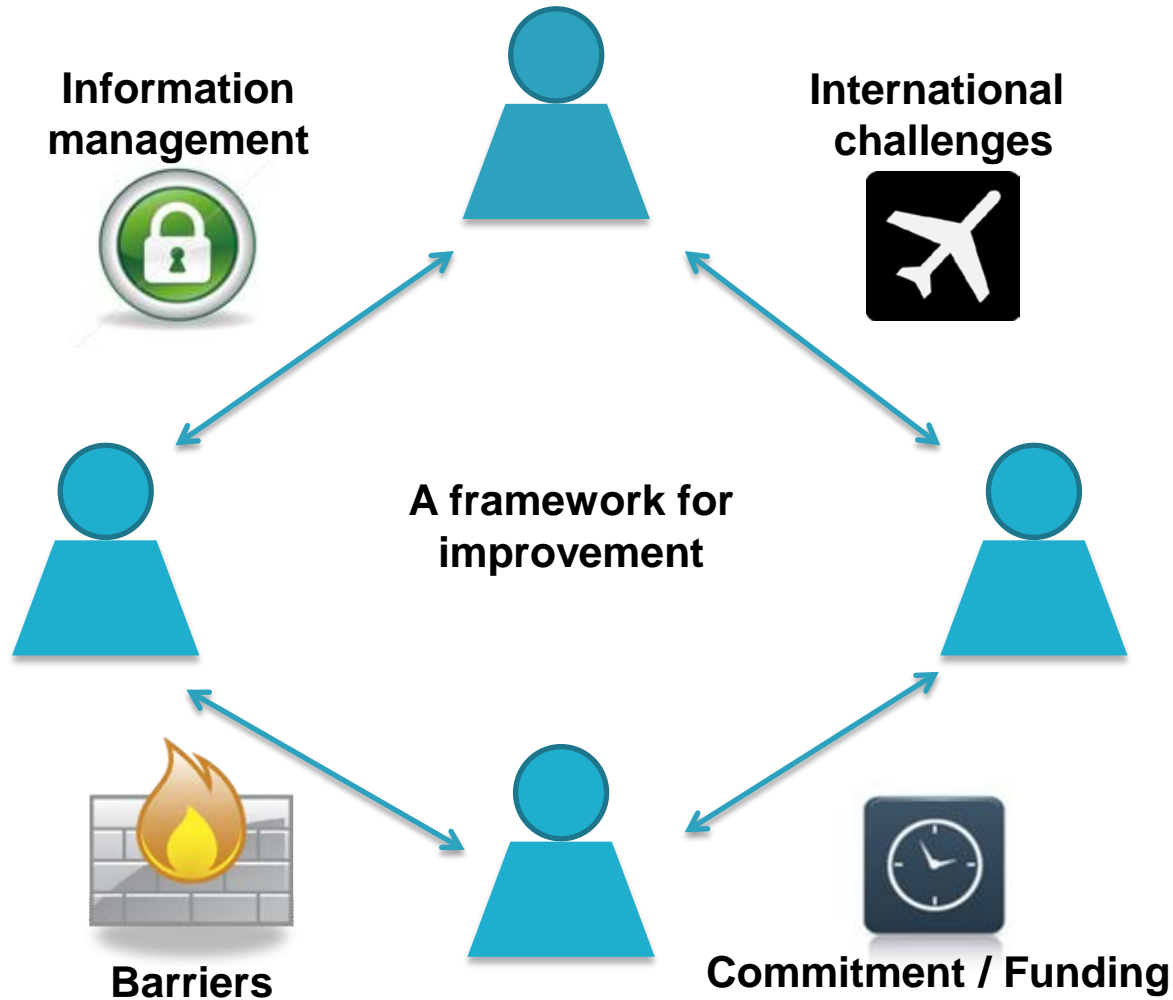
CCS is losing interest online.



Source: Google Trends



Knowledge sharing as a service





Key aspects of Decarboni.se

- **Greatly improve web accessibility**
- **Enabling work reach to a much larger audience**
- **Meeting knowledge sharing compliance requirements**
- **Enabling strong branding for other organisations**

- **Demo of Decarboni.se and EC site**



DEMO: PUBLISHING LAYER

Knowledge Hub

EC Site

▶ KEY OUTCOME

Distinct platforms can be quickly built from the hub code – providing a distinct brand and design for the knowledge sharing organisation.



DEMO: PUBLISHING LAYER

Decarboni.se Knowledge Hub

- Information is organised by topics, a number of which are common across decarbonisation technologies
- Over 400 definitions have been created and auto-linked to content
- Definitions are written in the context of decarbonisation

The screenshot shows the Decarboni.se website interface. At the top, there is a teal header with the logo 'decarboni.se SOLUTIONS TO CLIMATE CHANGE', a 'Myaccount | Logout' link, and a 'Subscribe' button. Below the header is a search bar with a magnifying glass icon, a 'Search' button, and a 'Browse' button. The main content area is titled 'Browse all topics' and displays a grid of topic categories, each with an icon and a dropdown arrow. The categories include: Capacity development, Energy efficiency, Health, safety and environment, Project financing, Carbon capture, use and storage (CCUS), Engineering and project delivery, Nuclear energy, Public engagement, Economics, Fuel switching, Policy, law and regulation, and Renewables. Below this is a section titled 'Browse definitions' which features a navigation bar with letters O-9, ABC, DEF, GHI, JKL, MNO, PQR, STU, VWX, YZ. The current view is for 'ABC' and shows a list of definitions with their corresponding terms and links.

O-9	ABC	DEF	GHI	JKL	MNO	PQR	STU	VWX	YZ
O-9									
3D model									
ABC									
Acceptance Angle	Activated carbon	Active power	Air mass Attenuation						
Air separation	Algae	Algae cultivation	Algal biofuels						
Amine	Anemometer	Annual operating plan	Aquifer						
Asset Management Analyst	Asynchronous generator	Audit plan	Avian mortality						
B20	B5	Bagasse	Balance of plant						
Bankable proposition	Base load facility	Basic design package	Basis of estimate						
Bathymetric survey	Battery limits	Benchmarking	Best practice						



DEMO: PUBLISHING LAYER

Decarboni.se Knowledge Hub

- Information from over 400 organisations on decarboni.se
- Each organisation can be shown in a mini-website
- Contains “about” and “from” organisations
- Diligent processes in place in relation to copyright

The screenshot displays the decarboni.se website interface. At the top, there is a navigation bar with the logo 'decarboni.se SOLUTIONS TO CLIMATE CHANGE', a 'My account | Logout' link, and a 'Subscribe' button. Below this is a search bar with a magnifying glass icon, a 'Search' button, and a 'Browse' button. The main content area is titled 'Featured organisations' and contains a grid of 12 logos for various organizations: Alstom, ArcelorMittal, CSIRO, Environmental Protection Agency (EPA), Global CCS Institute, International Energy Agency (IEA), International Renewable Energy Agency (IRENA), Massachusetts Institute of Technology (MIT), Rotterdam Climate Initiative, United Nations Framework Convention on Climate Change (UNFCCC), United Nations Industrial Development Organization (UNIDO), and World Bank. Below this grid is a section titled 'Browse organisations' which shows a list of organizations starting with '2Co Energy' and 'ABC'.

0-9			
2Co Energy			
ABC			
Accenture	ACIL Tasman	ACS Publications	Advanced Resources International, Inc.
AECOM	Air Improvement Resource Inc.	AJW Inc.	Alberta Energy
Alberta Innovates Technology Futures	Alcoa Inc.	Alfa Laval	Alstom
American Association of Petroleum Geologists	American Economic Association	American Electric Power (AEP)	Andover Technology Partners



DEMO: PUBLISHING LAYER

Decarboni.se Knowledge Hub

- Dozens of organisations now publishing through the Institute to reach a larger audience
- Publications optimised for dissemination on the web in HTML and eBook formats
- Content is automatically linked to definitions and topic areas
- Publications can be presented out to other sites as well

The screenshot displays the Decarboni.se website interface. At the top, there is a teal header with the logo and navigation links for 'My account', 'Log out', and 'Subscribe'. Below the header is a search bar containing the text 'industrial use of carbon capture' and buttons for 'Search' and 'Browse'. On the left side, there are social media icons for Facebook, Twitter, LinkedIn, and Google+. The main content area features a 'PUBLICATION' section with the title '1. CO2 reuse technologies'. The text discusses the demand for CO2 in EOR and the potential for large-scale industrial sources. It lists ten technologies: enhanced oil recovery (EOR), urea yield boosting, enhanced geothermal systems, polymer processing, algae cultivation, carbonate mineralisation, CO2 concrete curing, bauxite residue carbonation, CO2 as a feedstock for liquid fuel production, and enhanced coal bed methane. A 'TABLE OF CONTENTS' section is visible on the right, listing 'Executive summary', 'Introduction', and 'Part 1: Technology investigation and evaluation' with sub-items '1. CO2 reuse technologies' and '2. Description of short-listed technologies'.



DEMO: PUBLISHING LAYER

- Terminal sites pull content from the hub and present with the network / organisations brand
- Can be built very quickly – a simple site in a few hours
- Enables the focus to be on knowledge sharing / not IT
- Our corporate site and campaign site follow the same architecture

The screenshot displays the CCS NETWORK.EU website interface. At the top, there is a navigation menu with the following items: HOME, ABOUT THE NETWORK, PUBLICATIONS (highlighted), INSIGHTS, NEWS, EVENTS, MORE ABOUT CCS, and SEARCH. Below the navigation is a sidebar titled 'CATEGORIES' with a list of items and their counts:

- › Advisory Forum (13)
- › Agenda (2)
- › Documents (3)
- › Presentations (6)
- › Knowledge Sharing Events (49)
- › Agenda (1)
- › Presentations (33)
- › Reports (15)
- › Network Documents (15)
- › About the Network (13)
- › Knowledge Sharing Protocol (1)
- › Membership Criteria (2)
- › Thematic and Technical Reports (21)
- › Feed Studies (4)
- › Public Engagement (12)
- › Regulatory Development (11)
- › Research (1)
- › Risk Management (3)
- › Storage (6)

The main content area features three publication entries, each with a 'PUBLICATION' label in a red box:

- European CCS Demonstration Project Network: Opinion on the EU Commission CCS communication**
26 July 2013 | European CCS Demonstration Project Network
European CCS Demonstration Project Network: Opinion on the EU Commission CCS communication On 27 March 2013, the European Commission launched a Consultative Communication on "The future of Carbon Capture and Storage (CCS) in Europe" [COM(2013) 1 ...
- Case study of the ROAD storage permit**
26 July 2013 | European CCS Demonstration Project Network
Case study of the ROAD storage permit In June 2013 the ROAD project, as a member of the European CCS Demonstration Project Network, released a case study regarding its storage permit. It gives an overview of the internal ROAD organisation, an overview of ...
- The European CCS Demonstration Project Network: Global CCS Institute's members' meeting, 23 May 2013**
26 July 2013 | European CCS Demonstration Project Network
The European CCS Demonstration Project Network: Global CCS Institute's members'



DEMO: COLLABORATION LAYER

- Used to share information and build online networks.
- A customised private website can be setup in a matter of hours.
- Group video conferencing and webinars allow people to “meet” from around the world in a private fashion.

The screenshot displays a forum interface with several sections:

- About This Forum:** A text block explaining the forum's purpose for discussions on CO2 storage.
- Discussion Topics:** A list of topics including 'Characterisation' and 'Monitoring'.
- Project Network Space:** A section for 'European CCS Demonstration Project Network' with a 'Storage' sub-section.
- Other Forums You May Be Interested In:** Links to 'General Network Forum', 'Public Engagement Forum', and 'Regulatory Development Forum'.
- Need Help?:** A section for 'Forum Administrators' and 'Quick Tour'.
- Can You Help Answer a Question?:** A list of questions such as 'CO2 EOR vs small-track horizontal drilling?' and 'Rise: Questions about possible fracture at Sleipner?'. Each question includes the author's name and the time since posted.
- Latest Updates:** A section for 'Offshore CO2 EOR, Don Valley' and 'Storage Theme KS event 20-21 May 2013, Final Agenda Uploaded'.
- Join a Recent Discussion:** A section for 'Offshore CO2 EOR, Don Valley' and 'Storage Theme KS event 20-21 May 2013, Final Agenda Uploaded'.
- Actions:** A list of actions including 'Start a discussion', 'Create by email', and 'Invite people to join this group'.
- Popular Tags:** A list of tags including 'characterisation', 'CO2', 'containment', 'EOR', 'geophysics', 'integrity', 'knowledge', 'monitoring', 'multi-trac', 'operations', 'sensitivity', 'storage', and 'storage'.
- Top Participants:** A list of users including 'Angeline Kneppers', 'Daniel Rennie', 'Philip Pangalos', and 'Sarah Mackintosh'.
- Recently Joined:** A list of users including 'Felix Heine' and 'Adas Pangalos'.



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