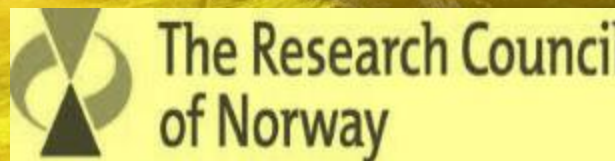


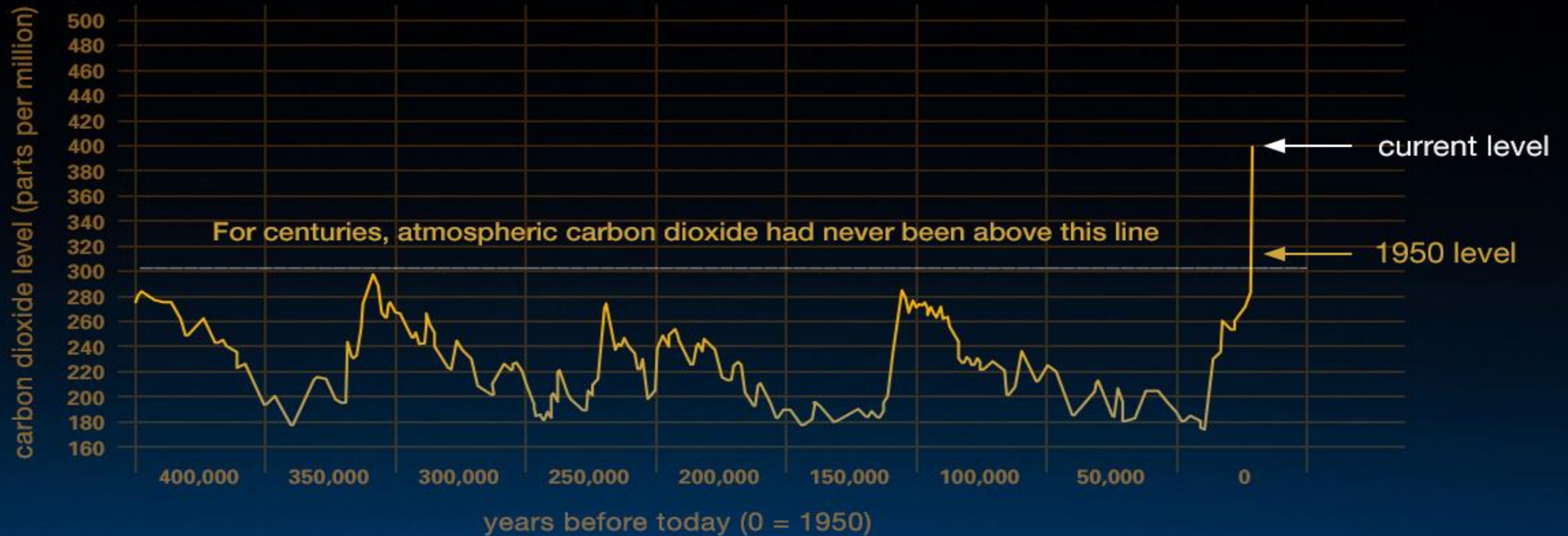
Whole Value Chain CCUS Conference Week

Welcome!



Prof. Arne Graue
Dept. of Physics and Technology
University of Bergen, NORWAY

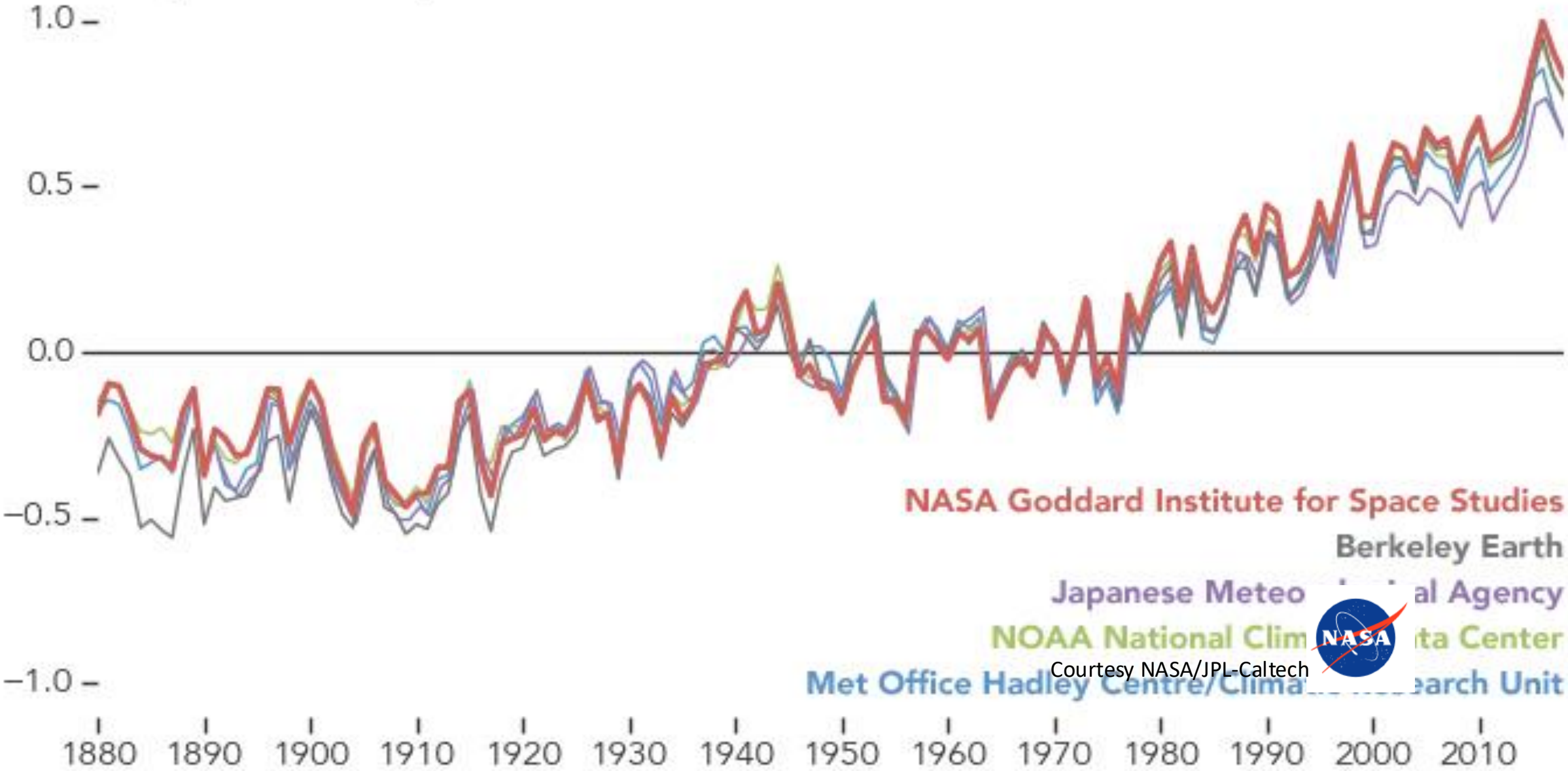
Historic Atmospheric CO₂ Concentrations



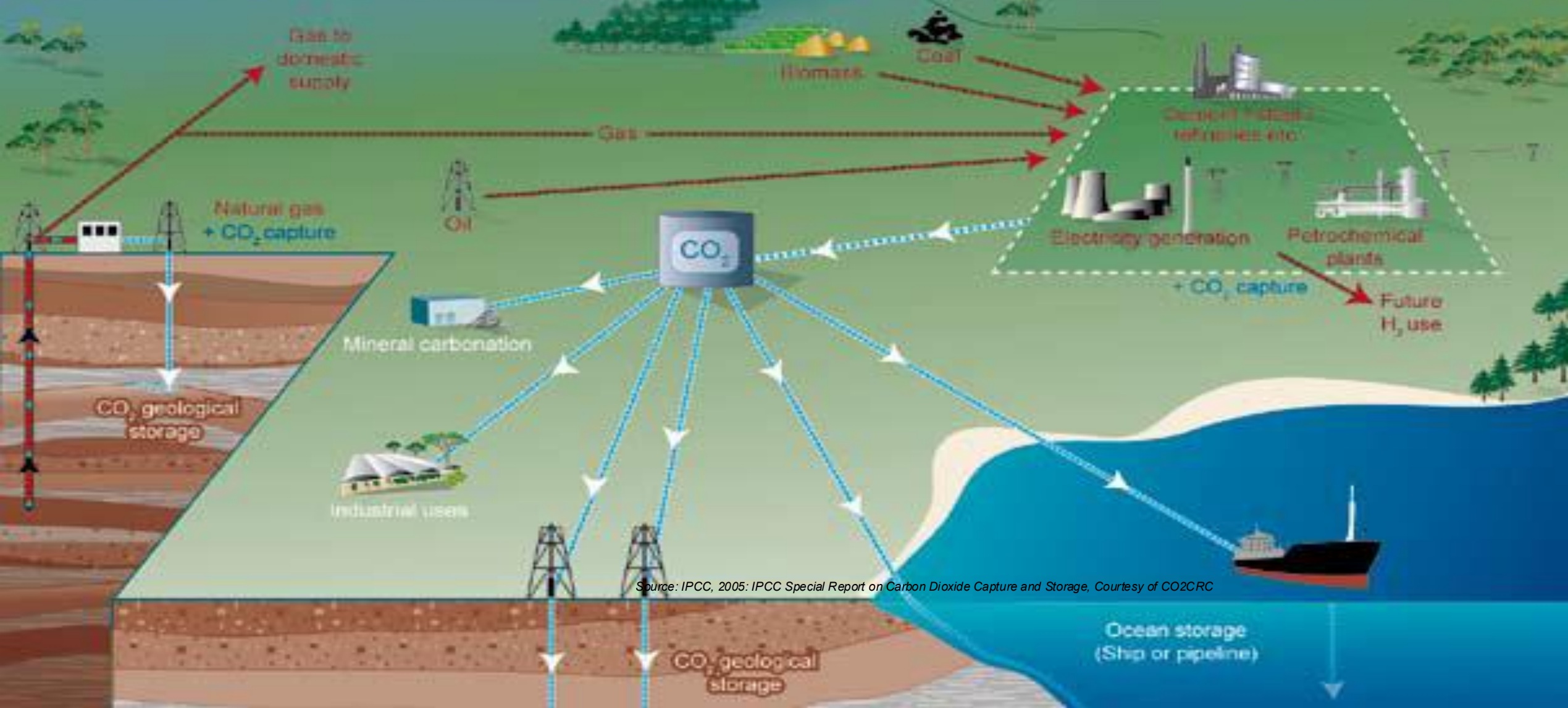
Courtesy NASA/JPL-Caltech

A World of Agreement: Temperatures are Rising

Global Temperature Anomaly (°C)



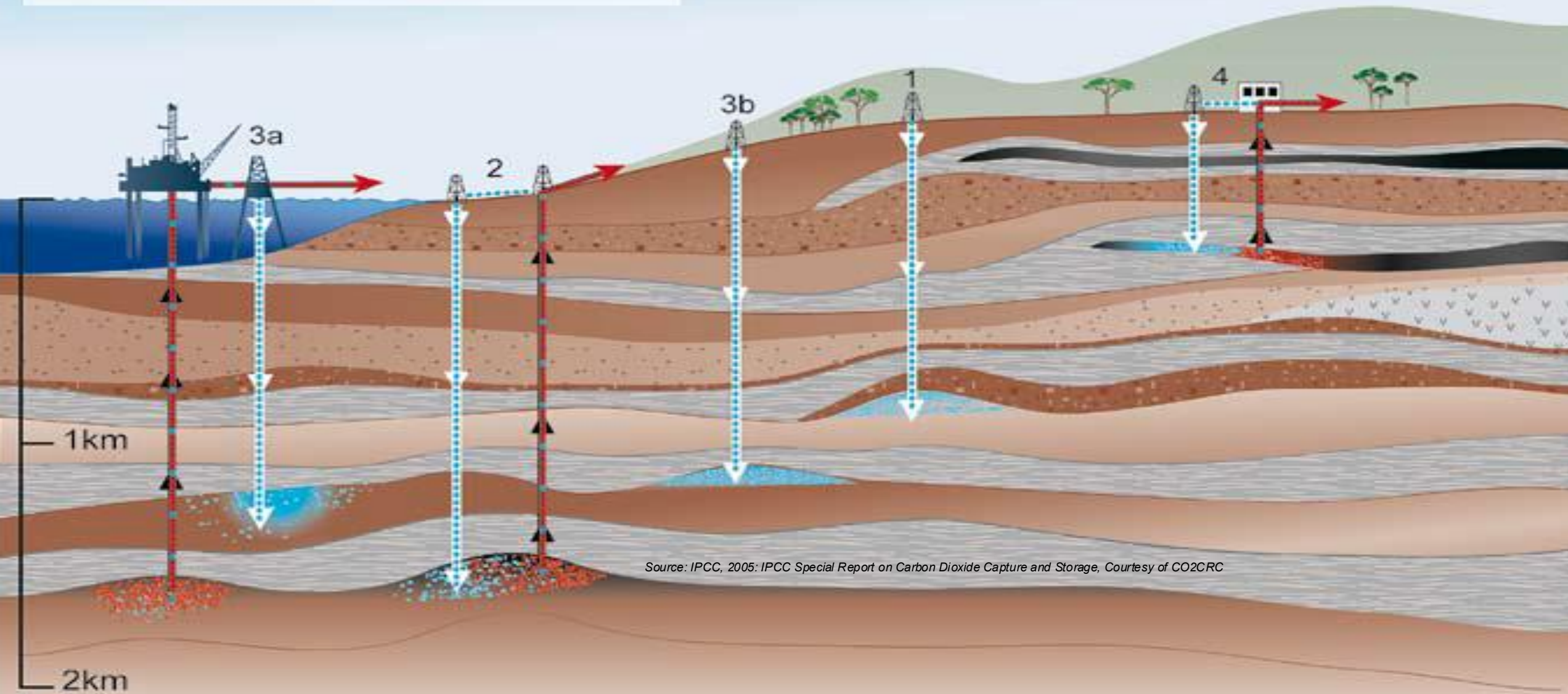
Schematic diagram of possible CCS systems



Source: IPCC, 2005: IPCC Special Report on Carbon Dioxide Capture and Storage, Courtesy of CO₂CRC

Overview of Geological Storage Options

- 1 Depleted oil and gas reservoirs
- 2 Use of CO₂ in enhanced oil and gas recovery
- 3 Deep saline formations — (a) offshore (b) onshore
- 4 Use of CO₂ in enhanced coal bed methane recovery



Whole Value Chain CCUS Conference Week

Venue: CSM & Golden Hotel, 800 11th St, Golden, CO 80401, USA

Time: Monday Sept. 22nd – Friday Sept. 26th, 2025

The structure of the conference:

Monday: Climate perspectives, Policies and Economics, and General info on CCUS

Tuesday: CO2 Capture

Wednesday: CO2 transport and Storage

Thursday & Friday: CO2 utilization

Status:

- 74 PhD & MSc students applied
- 40 students have been accepted
- 28 students from Europe, Asia, and South America
- 12 PhD students from US universities
- 6 students from Colorado universities participate
- 32 invited speakers from industry, authorities, and universities

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Scientific Program:

Day 1: Climate Perspectives, Energy Transition, Policies & Economics

Day 2: CO₂ Capture and CO₂ Transport

Day 3: CO₂ Storage

Day 4: CO₂ Utilization in Hydrates and in Enhanced Oil Recovery (EOR)

- Tour of CSM CCUS and EOR Laboratories

Day 5: CO₂ EOR and Whole Value Chain CCUS Future Development

Social Program:

Day 1: - Reception at Golden Hotel

Day 4: - Conference Dinner at The Golden Hotel

Day 5: - Tour of the Coors Brewery; dependent on individual reservations

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Conference Objectives:

1. **Emphasize Technological Solutions to the Dual Challenge of Climate Change & Energy Needs**
2. **Present Disruptive New Technologies in Low Carbon Energy Production**
3. **Provide a Whole Value Chain Approach Overview within CCUS**
4. **Demonstrate how CCUS may assist in reducing energy poverty while mitigating climate change**
5. **Accelerate CCUS collaboration between Norway, Europe, South America, Asia, and USA**
6. **Provide opportunity for experts in industry and academia to collectively discuss CCUS research**
7. **Provide PhD students with current CCUS research status and the way forward**
8. **Emphasize how captured anthropogenic CO₂ may mitigate climate change and provide reliable, affordable, and sustainable energy for the future utilizing CCUS in oil production**
9. **Provide oil industry opportunities to communicate needs to next generation energy engineers**

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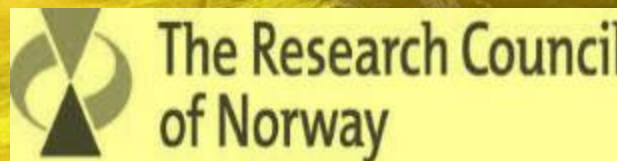
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Provided by: Petroleum Research School of Norway (NFiP), The Colorado-Norway Clean Energy Research and Educational Collaboration (ColNor), NorTex Petroleum Cluster, Rice University and Co-Hosted by Colorado School of Mines and Royal Norwegian Consulate General in San Francisco.

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