



The Payne Institute for Public Policy



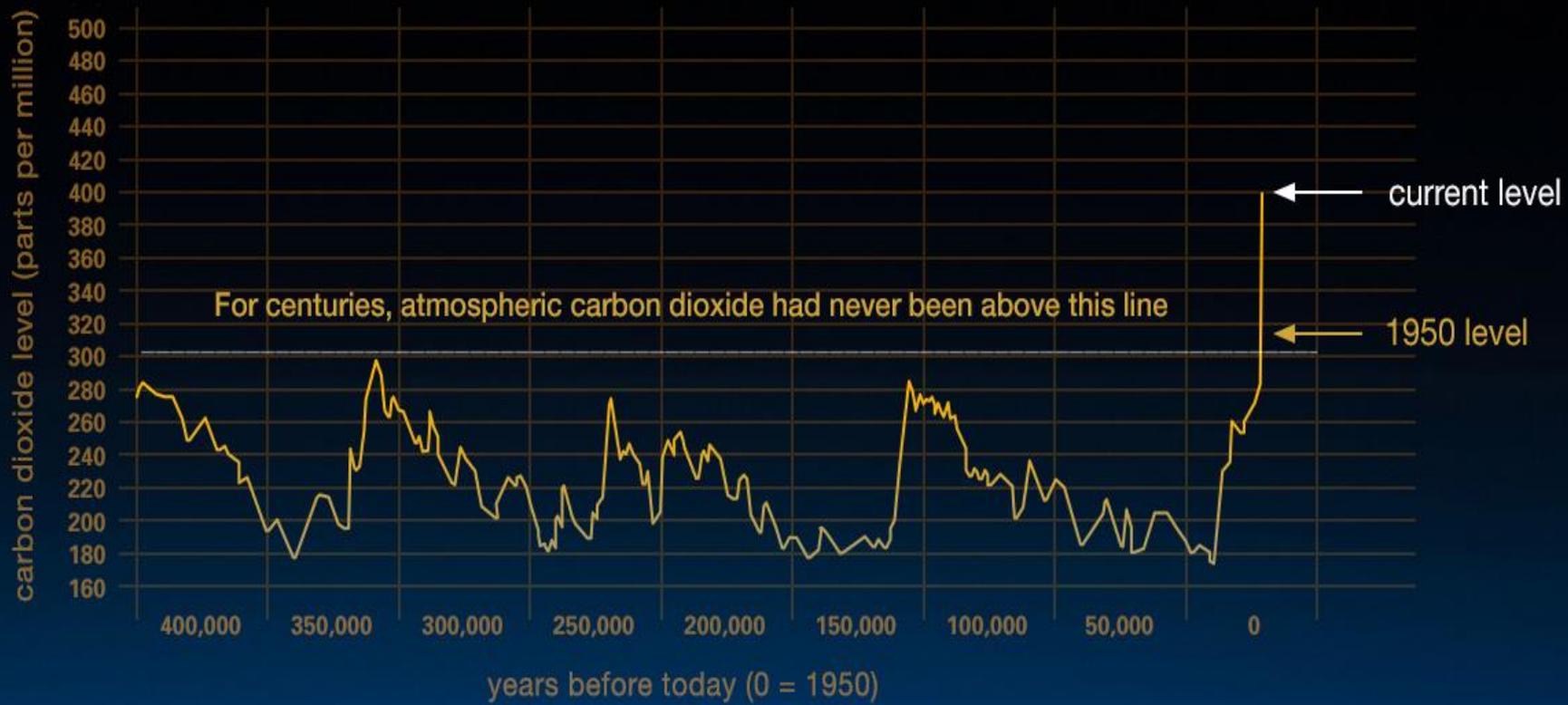
Norwegian Consulate General
San Francisco

Whole Value Chain CCUS Conference Week

Welcome!



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

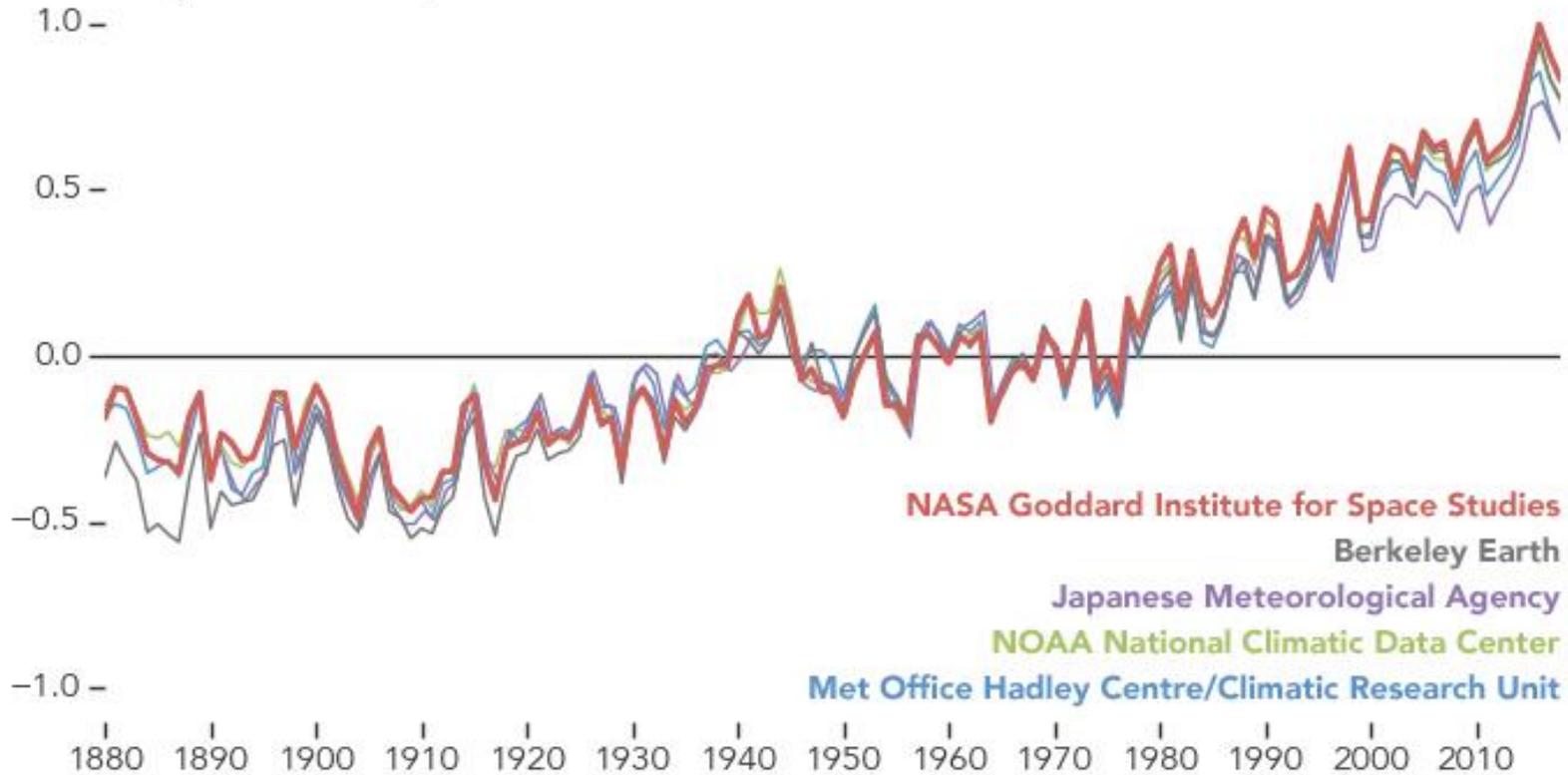


Courtesy NASA/JPL-Caltech



A World of Agreement: Temperatures are Rising

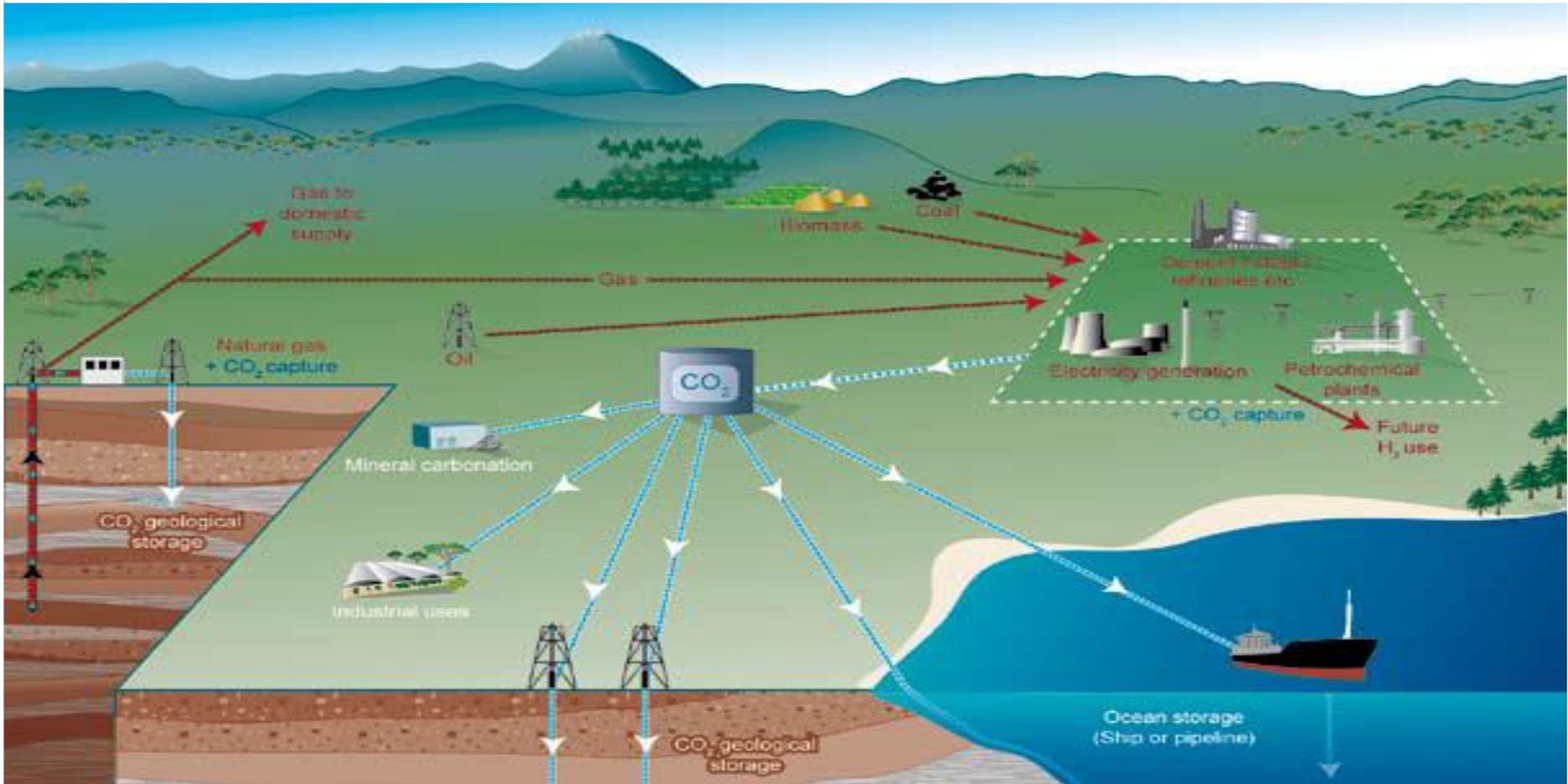
Global Temperature Anomaly (°C)



Courtesy NASA/JPL-Caltech



Schematic diagram of possible CCS systems

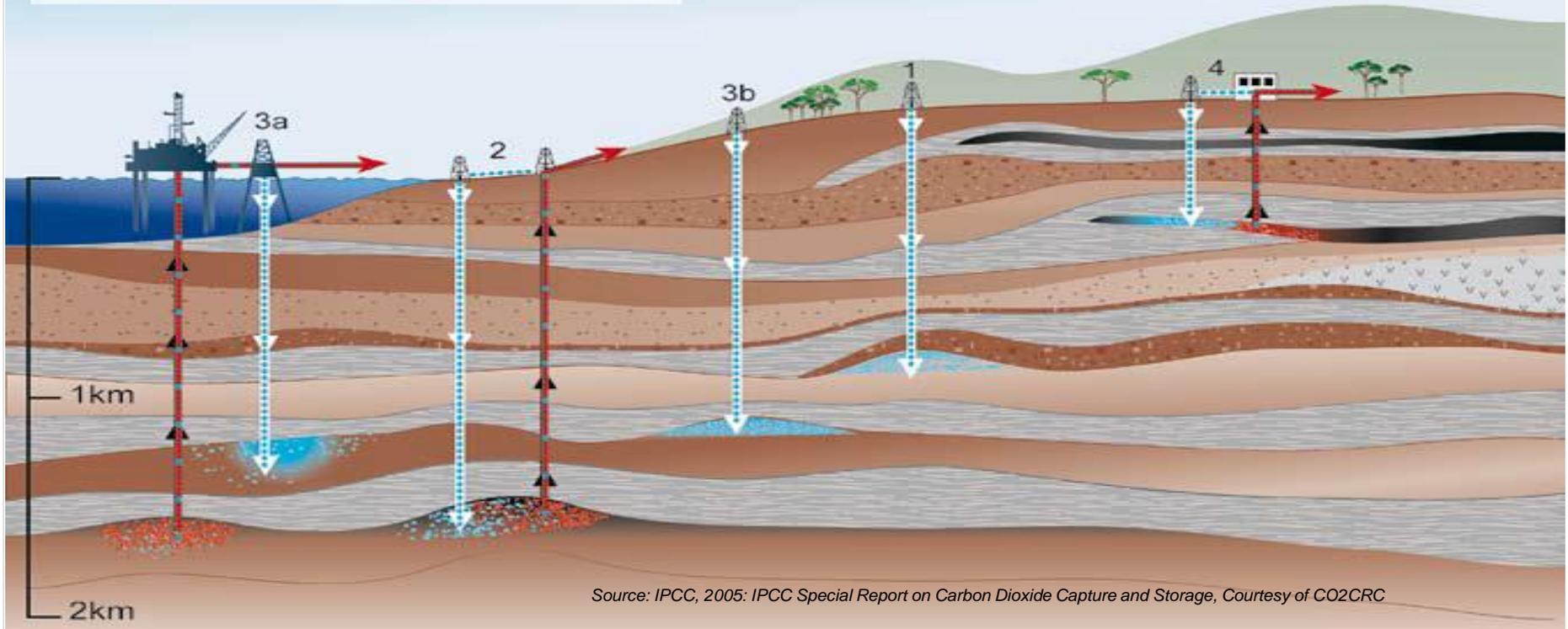


Source: IPCC, 2005: IPCC Special Report on Carbon Dioxide Capture and Storage, Courtesy of CO2CRC

Overview of geological storage options

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



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

Whole Value Chain CCUS Conference Week

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

Time: *Monday Nov. 14th - Friday Nov. 18th, 2022*

Scientific Program:

Day 1: Climate Perspectives and CO₂ Capture

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. Provide a Whole Value Chain Approach Overview within CCUS
3. Demonstrate how CCUS may assist in reducing energy poverty while mitigating climate change
4. Accelerate CCUS collaboration between Norway, Europe, South America, Asia, and USA
5. Provide opportunity for experts in industry and academia to collectively discuss CCUS research
6. Provide PhD students with current CCUS research status and the way forward
7. Emphasize how captured anthropogenic CO₂ may mitigate climate change and provide reliable, affordable, and sustainable energy for the future utilizing CCUS in oil production
8. Provide oil industry opportunities to communicate needs to next generation energy engineers

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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.

Sponsored by: Norwegian Research Council Research School Funding Program and RCN/Climit.