Carbon Capture Utilization Storage Consortium

Core Lab
RESERVOIR OPTIMIZATION

Core Lab and the University of Houston have partnered to offer membership in an industry-led consortium to address and understand the challenges associated with geological storage of CO_2.

2023 Program Scope

Injectivity

- Impact of scaling and mineral dissolution/precipitation on permeability
- Effect of mineral dissolution/precipitation on rock strength
- Mobility assessment and comparison beween trapping, dispersion and fingering of CO_2
- Extent of CO_2 solubility in various brines
- Continued Cement study with various cement blends and exposure times

Legacy Deliverables

Containment

- Seal evaluation on 16 Acquifer seal samples
- Analog data set from Gulf Of Mexico hydrocarbon seals
- Cement study with CO_2 time-lapesed exposure
- Seal Evaluation Toolkit with Capillary Pressure conversions
- University of Houston MMP and CO_2 Properties Calculators

Partners

Dr. Birol Dindoruk
University of Houston

Core Laboratories is pleased to partner with Dr. Birol Dindoruk, University of Houston, in this consortium. Dr. Dindoruk is a member of the National Academy of Engineering for his contributions in the areas of gas injection and CO_2 storage.

Members

- **JX Nippon**
- **EOG**
- **Shell**
- **Quantum**
- **Talos**
- **Trace Minerals II**
- **Blue Sky**
- **Chevron**
- **EQT**
- **BKV**
- **Aramco**

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CO2re
Carbon Dioxide Reservoir Evaluation