

Reducing Carbon Footprints by Accessing Storage Resources: How to Leverage Existing Formations by Using Geologic and Engineering Knowledge

Knowledge

D&M has the experience required for estimating CO₂ storage resources using the latest techniques and the SPE's SRMS reporting principles.

Integrity

D&M can bring its unique reputation for independence and standards of excellence to our client's emissions management programs.

Service

D&M provides guidance and expertise to help clients understand their available storage capacity and how it applies to their carbon management strategy.

Support

D&M personnel travel around the world to provide one-on-one support to clients, and D&M staff can be available 24/7 for virtual meetings.

Advanced Technology

D&M has made significant investments in computing resources to ensure it can meet clients' analytical needs.

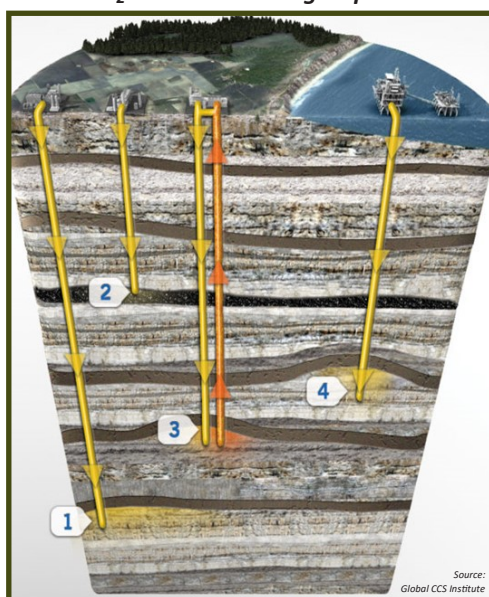
Solutions

D&M offers a wide range of services to help clients evaluate or appraise their storage resources and weigh how to use these resources to achieve reduction targets or access carbon markets.

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Environmental, Social, and Corporate Governance (ESG), including the management of **greenhouse gas (GHG)** emissions, has become a business imperative for the petroleum industry. For many companies, the need to reduce their overall carbon footprint and/or address emissions activity has increased interest in carbon sequestration strategies. Using the Society of Petroleum Engineers' **Storage Resources Management System (SRMS)**, DeGolyer and MacNaughton Corp (D&M) is able to help companies review, estimate, and document their storage resources and capacity in their existing hydrocarbon and saline formations, as well as analyze the factors in assets that may be for sale.

CO₂ Emissions Storage Options



Why Evaluate Storage Resources and Capacity?

Our industry can be misperceived as "dirty" because we create emissions. Contrarily, we can demonstrate our commitment to reducing or eliminating emissions by leveraging the storage resources that are inherent in our license areas.

Developing better insights into the available storage resources and capacity allows for proper carbon management. These storage resources can reduce our emissions footprint or can be used as emissions offsets for voluntary carbon markets.

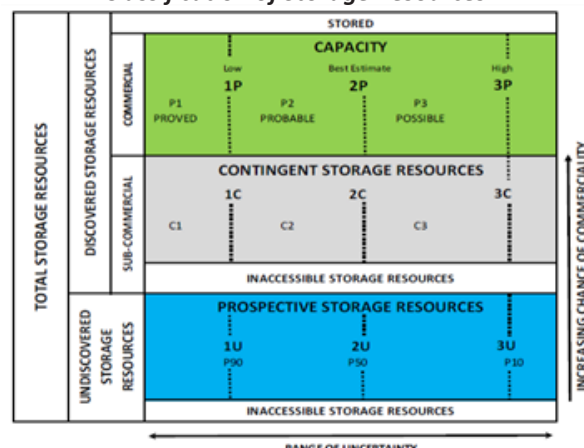
Oil and Gas Companies in the Storage Business

Oil and gas companies are positioned to lead the world in emissions reduction activities. With vast knowledge of subsurface geology, reservoir behavior, and production and injection facilities, our industry is critical not only to providing the energy our economies require, but also to unlocking a sustainable transition to the world's energy future.

Key to emissions reduction is carbon sequestration: the ability to permanently trap CO₂ emissions in geologic formations. Oil and gas companies typically have access to the following primary storage formations:

1. Saline formations
2. Un-mineable coal seams
3. CO₂ EOR-applicable reservoirs
4. Depleted hydrocarbon reservoirs

Classification of Storage Resources



Source: SRMS, 2017. <https://www.spe.org/en/industry/co2-storage-resources-management-system/>

SERVICES AVAILABLE

- SRMS storage resources and capacity evaluations and appraisals
- Carbon market analysis
- CO₂ costing and sourcing analysis
- Offset analysis
- ANSI- and CARB-accredited offset verifications through our partners
- Training and mentoring via courses, workshops, and peer reviews



Worldwide Petroleum Consulting