

Gas Storage & CO₂ Sequestration

Realise storage potential

Service Offerings

Key questions:

- What is the optimal storage development strategy?
- What are the key reservoir parameters that characterise successful storage reservoir?
- Where are the opportunities for future gas storage reservoirs?
- How can we improve well and reservoir performance for existing storage reservoirs?
- What are the best techniques for storage reservoir surveillance and management

Screening Studies: LEAP Energy is experienced in performing screening studies for the identification of potential gas storage reservoirs. LEAP Energy provides unique insight for the ranking of storage reservoirs and key drivers for successful gas storage projects.

Storage Development Studies: LEAP Energy performs Storage Development Studies to understand and optimise development strategies and prepare development plans ready for execution. These studies typically provide insights into typical development challenges such as cushion and working storage volumes, drilling into depleted oil/gas fields, injection and withdrawal capacities, well designs and placement optimisation

CO₂ Sequestration Studies: Identification and development of CO₂ storage sites. Specialised experience in unique challenges associated with CO₂ injection and storage.

Compositional Simulation Studies: specialised capability in CO₂ compositional simulation, plume behaviour, proxy modelling, sensitivity and uncertainty analysis.

Storage Reservoir Management: Development of surveillance programs unique to storage reservoirs for the continued operation and understanding of cyclical short-term forecasts. Allows for the identification of various well and reservoir optimisation activities using the latest technologies.

2015 Highlights

Technical advisor: \$1.7 billion acquisition of the Iona Gas Storage facility, Australia

Gas Storage: gas storage reservoir evaluation and modelling of multiple producing fields, Australia

Storage Screening Study: Multi-field storage reservoir screening study, onshore and offshore Australia

CO₂ Sequestration: Compositional Simulation for offshore CO₂ sequestration project, Australia