

Western Australia carbon dioxide geological storage atlas (Report 126)

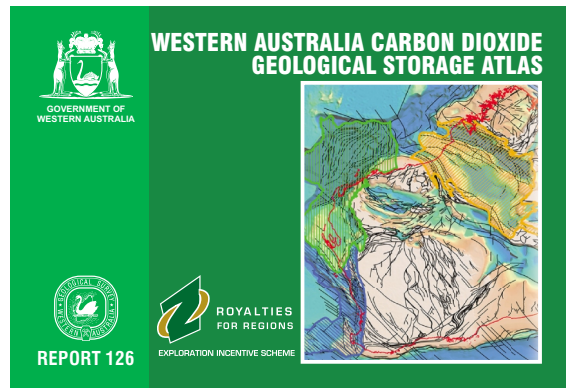
Worldwide, carbon capture and geological storage (CCS) is the technology considered to have the greatest potential to mitigate greenhouse gas emissions from large-scale fossil fuel usage. The Carbon Storage Taskforce (CSTF), established by the Australian Government under the National Low Emissions Coal Initiative (NLECI) has identified that CCS combined with power generation and gas processing is likely to play a significant role in Australia.

This USB of Report 126 contains the Report in a PDF and the underlying digital data that were the primary source for the geological and geophysical interpretation of storage targets presented in the Report; both were compiled by 3DGeo Pty Ltd. Report 126 comprises four separate chapters. An introduction outlines the purpose of the atlas, how the technical evaluation has been structured, and a summary of the prospectivity. The three main onshore basins — Perth, Carnarvon, and Canning — are discussed in separate chapters, each with detailed sections that examine:

1. data
2. regional stratigraphy
3. regional structure
4. well correlations
5. reservoir and seal analysis
6. seismic interpretation and mapping
7. thermal modeling
8. prospectivity review.

The CO₂ Atlas was funded by the Exploration Incentive Scheme (EIS), under the Royalties for Regions program. It uses Department of Mines and Petroleum (DMP) open-file well and seismic data, which were collected by petroleum, and in some cases mineral, exploration companies.

For the three basins (Canning, Carnarvon, and Perth) five ArcGIS projects are supplied for each, as described in this document. High-resolution PDF images of the maps and well correlation sections associated with Report 126 are contained in [USB drive]/[Basin]/DOCUMENT/MAPS and SECTIONS.



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