

ENERGY GEOSCIENCE HIGHLIGHTS

General information about the work of the Energy Geoscience and Carbon Strategy branch of the Geological Survey of Western Australia (GSWA) is available on the Department of Mines, Industry Regulation and Safety (DMIRS) website, at <www.dmirs.wa.gov.au/oilgasgeothermal>.

The DMIRS eBookshop contains geological products including books, maps and data packages. Most of these are available in PDF format free of charge from <www.dmirs.wa.gov.au/ebookshop>.

EXPLO
INCENTIVE
SHEME

STATEWIDE

- Distribution of hydrogen and helium shows in petroleum wells within Western Australia
- A project is underway compiling all information related to all source rocks within Western Australian Basins
- An Energy Systems Atlas has been developed within WAPIMS map to show key well data in a GIS format
- Update and revision of the CO₂ storage atlas of Western Australia
- The latest book in the GSWA Unearthed series 'Mesozoic transformation of Western Australia: rifting and breakup of Gondwana' was released in February 2023



CANNING BASIN

- A field trip to investigate the potential of natural hydrogen seeps within the Canning Basin was undertaken in August/September 2021
- A review of salt characterization and distribution in the Canning Basin is underway

Interpretation of structural features utilizing airborne electromagnetic data was published in 2022 as Report 234

Barnicarndy 1, a deep stratigraphic well, was drilled in late 2019. The interpretive well completion report and digital core atlas are planned for release in 2023

A regional structural interpretation of the Kidson Sub-basin and Crossland Platform is underway

AMADEUS BASIN

GSWA fieldwork shows the Western Australian side of Amadeus Basin has similar stratigraphy to the eastern part of the basin, and so has potential for hydrocarbons and helium

A Report on the stratigraphy and structure of the Cobb Embayment of the Eastern Canning Basin was released in 2022



CARNARVON BASIN

A Report on the source-rock potential for Permian rocks in the Southern and Northern Carnarvon Basins was released in June 2022

An investigation of the biostratigraphy of the Permian Byro Group continues

A review of salt characterization and distribution in the Carnarvon Basin has commenced



OFFICER BASIN

- New correlations between the Amadeus and Officer Basins are leading to revised stratigraphy and petroleum and helium potential. A review of salt characterization and distribution in the Officer Basin is underway
- The new EIS funded western Officer Basin and Amadeus Basin SEEBASE Report and GIS projects were released in March 2023



PERTH BASIN

The EIS funded new Perth Basin SEEBASE Report and GIS project were released in March 2023

A review of the stratigraphy and structure of the northern Perth Basin commenced in 2023



Research into carbon capture and storage (CCS) at the South West Hub continues

200 km

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Government of Western Australia
Department of Mines, Industry Regulation
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Geological Survey of
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