

## 7. References

- 3DGEO Pty Ltd, 2013. Western Australia carbon dioxide geological storage atlas: Geological Survey of Western Australia, Report 126, p. 300.
- Adkins, B. and Clague, S., 2014. Queensland's new regime for overlapping coal and CSG tenures. *Australian Resources and Energy Law Journal*, 33, p. 166–179.
- APA, 2013. Mondarra gas storage facility factsheet, APA Group. [www.apa.com.au](http://www.apa.com.au).
- Ballesteros, M., Pujol, M., Aymard, D. and Marshall, R., 2020. Hot sedimentary aquifer geothermal resource potential of the Early Permian Kingia Sandstone, North Perth Basin, Western Australia. *Transactions - Geothermal Resources Council*, 44.
- Belton, V., Stewart, T. J., 2002. Multiple criteria decision analysis: an integrated approach. Springer Science and Business Media.
- Birkholzer, J., Cihan, A. and Bandilla, K., 2014. A tiered area-of-review framework for geologic carbon sequestration. *Greenhouse Gases: Science and Technology*, 4(1), p. 20–35.
- Bradshaw, J., Bradshaw, B., Spencer, L. and Mackie, V., 2000. GEODISC Project 1 – Regional analysis: stage 2 basins – Perth Basin, Western Australia. Appendix 1 of CO2CRC Report RPT06-0162, p. 46.
- Bureau of Meteorology (2025). Australian Groundwater Explorer. Accessed from:  
<http://www.bom.gov.au/water/groundwater/explorer/map.shtml> and  
<http://www.bom.gov.au/water/groundwater/ngis/index.shtml>. Accessed February 2025.
- Carbon Storage Taskforce, 2009. National carbon mapping and infrastructure plan – Australia: full report. Energy and Tourism Canberra.
- Carr, M. H. and Zwick, P. D., 2007. Smart land-use analysis: The LUCIS Model. Esri Press.
- Commander, D. P., 1981. The hydrogeology of the Eneabba area, Western Australia. MSc Thesis, University of Western Australia, 254.
- Country Areas Water Supply Act 1947 (Western Australia), [https://www.austlii.edu.au/cgi-bin/viewdb/au/legis/wa/consol\\_act/cawsa1947334/](https://www.austlii.edu.au/cgi-bin/viewdb/au/legis/wa/consol_act/cawsa1947334/)
- Craig, A., Newman, S., Stephenson, P., Evans, C., Yanczos, S., and Barber, S., 2022. Hydrogen storage potential of depleted oil and gas fields in Western Australia. *The APPEA Journal*, 62(1), p. 185–195.
- Department of Energy, Mines, Industry Regulation and Safety (DEMIRS), 2025. WA Carbon Dioxide Geological Storage Atlas. Accessed from:  
<https://wapims.dmp.wa.gov.au/WAPIMS/Search/CO2StorageAtlas>. Accessed February 2025.
- Department of Energy, Mines, Industry Regulation and Safety Data Centre, 2025. Accessed from:  
<https://dasc.dmirsa.wa.gov.au/>. Accessed February 2025.
- Department of Energy, Mines, Industry Regulation and Safety, 2024. Perth Basin. Perth Basin. Accessed from: <https://www.dmp.wa.gov.au/Petroleum/Perth-Basin-10993.aspx>. Accessed February 2025.
- Department of Energy, Mines, Industry Regulation and Safety, 2023. Guide note on the management of subsisting petroleum and geothermal titles. Accessed from:  
[www.dmp.wa.gov.au/Documents/Petroleum/Guide\\_note-management\\_subsisting\\_petroleum-geothermal%20titles.pdf](http://www.dmp.wa.gov.au/Documents/Petroleum/Guide_note-management_subsisting_petroleum-geothermal%20titles.pdf). Accessed February 2025.

Department of Mines, Petroleum and Exploration, Geological Survey of Western Australia, GeoVIEW.WA, 2025. Accessed from: <https://www.dmp.wa.gov.au/GeoView-WA-Interactive-1467.aspx>. Accessed February 2025.

Department of Water, 2017. Northern Perth Basin: Geology, hydrogeology and groundwater resources. Hydrogeological bulletin series, report no. HB1, Department of Water, Government of Western Australia, Perth, p. 395.

Department of Water, 2015a. Mid West regional water supply strategy. Report no. 3, p. 60.

Department of Water, 2015b. Gingin groundwater allocation plan. Water resource allocation and planning series. Report no. 53, p. 55.

Department of Water and Environmental Regulation, 2025. Water Information Reporting – Department of Water and Environmental Regulation. Accessed from: <https://wir.water.wa.gov.au/Pages/Water-Information-Reporting.aspx>. Accessed February 2025.

Department of Water and Environmental Regulation, 2022. Gnangara groundwater allocation plan. Water resource allocation and planning series. Report no. 76, p. 111.

Ellis, L., Thomas, C., Cass, J., Mory, A. and Brooks, D., 2024. A preliminary assessment of regional CO<sub>2</sub> storage potential in the onshore northern Perth Basin. Australian Energy Producers Journal, 64(2): S365-S370.

Energy Information Administration (EIA), 2019. The basics of underground gas storage. U.S. Energy Information Administration. Accessed from: <https://www.eia.gov/naturalgas/storage/basics/>. Accessed February 2025.

Environmental Protection Act 1986 (Western Australia), Western Australian Government.

[https://www.legislation.wa.gov.au/legislation/statutes.nsf/main\\_mrttitle\\_304\\_homepage.html](https://www.legislation.wa.gov.au/legislation/statutes.nsf/main_mrttitle_304_homepage.html)

Environmental Protection Regulation 2019 (Queensland), Queensland Government.

<https://www.legislation.qld.gov.au/view/html/inforce/current/sl-2019-0155>

Faulkner, D. R., Jackson, C. A. L., Lunn, R. J., Schlische, R. W., Shipton, Z. K., Wibberley, C. A. J., and Withjack, M. O., 2010. A review of recent developments concerning the structure, mechanics and fluid flow properties of fault zones, Journal of Structural Geology, 32(11), p. 1557–1575.

Field, B., Barton, B., Funnell, R., Higgs, K., Nicol, A. and Seebeck, H. 2017. Managing potential interactions of subsurface resources. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy: 0957650917717628.

Geoscience Australia Portal, 2025. Core Data Access Portal. Accessed from: <https://portal.ga.gov.au/>. Accessed February 2025.

Geoscience Australia, 2023. Perth Basin. Accessed from: <https://www.ga.gov.au/scientific-topics/energy/province-sedimentary-basin-geology/petroleum/offshore-southwest-australia/perth-basin>. Accessed February 2025.

Geoscience Australia, 2020. Regional Geology of the northern Perth Basin. Accessed from: <https://www.ga.gov.au/petroleum>. Accessed February 2025.

Ghori, K.A., 2009. Petroleum data: leading the search for geothermal resources in Western Australia. The APPEA Journal, 49(1), p. 365–382.

Goiye, A., 2009. Gas Storage Project Otway Basin, Victoria, Australia. A presentation to SPE and PESA. 22 April 2009. TRU Energy. <https://higherlogicdownload.s3.amazonaws.com/SPE/b21d5158-ada7-4105-a570-17a7bc5f5c09/UploadedImages/2009/TRUenergy%20Gas%20Storage%20SPE%20Presentation.pdf>

Greenhouse Storage Act 2009 (Queensland), Queensland Government.

<https://www.legislation.qld.gov.au/view/pdf/current/act-2009-003>

Haines, P. W., 2023. Reports of hydrogen in Western Australian petroleum wells. APPEA Conf 2023.

<https://dmpbookshop.eruditetechnologies.com.au/product/reports-of-hydrogen-in-western-australian-petroleum-wells-appea-2023.do>.

Hortle, A., Michael, K. and Azizi, E., 2014. Assessment of CO<sub>2</sub> storage capacity and injectivity in saline aquifers – comparison of results from numerical flow simulations, analytical and generic models. Energy Procedia, 63(0), p. 3553–3562.

Huddlestone-Holmes, C., 2014. Geothermal energy in Australia. CSIRO report prepared for ARENA International Geothermal Energy Group, p. 65.

IEAGHG, 2010. Injection strategies for CO<sub>2</sub> storage sites. CO2CRC report for the IEA Greenhouse Gas R&D Programme, p. 90.

Intergovernmental Panel on Climate Change (IPCC), 2005. IPCC special report on carbon dioxide capture and storage. prepared by Working Group III of the Intergovernmental Panel on Climate Change. Cambridge University Press, Cambridge and New York, p. 442.

Jing, W., Yu, K., Wu, L. and Luo, P., 2021. Potential land use conflict identification based on improved multi-objective suitability evaluation. Remote Sensing, 13(12), 2416. <https://doi.org/10.3390/rs13122416>

Katz, D. and Tek, M. R., 1999. Overview on underground gas storage of natural gas. Society of Petroleum Engineers Journal. SPE 9390.

Kempton, R., Gong, S., Kennard, J., Volk, H., Mills, D., Eadington, P. and Liu, K., 2011. Detection of Palaeo-Oil Columns in the offshore northern Perth Basin: Extension of the effective Permo-Triassic Charge System. The APPEA Journal, 51(1) 377-396 <https://doi.org/10.1071/AJ10024>.

Langhi, L., 2024. Reality check on hydrogen seep. Accessed from:

<https://storymaps.arcgis.com/stories/0bf2b14471ed46ed86ce39a15c0b4bc8>. Accessed February 2025.

Langhi, L. and Strand, J., 2023. Exploring natural hydrogen hotspots: a review and soil-gas survey design for identifying seepage. Geoenergy, 1(1), <https://doi.org/10.1144/geoenergy2023-014>.

Manzocchi, T., Childs, C. and Walsh, J.J., 2010. Faults and fault properties in hydrocarbon flow models. Geofluids, 10, 94–113, <https://doi.org/10.1111/j.1468-8123.2010.00283.x>

McLarty, A. and Lepine, G., 2004. The gas/bitumen dispute: The clash of fact, technology, policy and law. Alberta Law Review, 42(1), 113–152. <https://doi.org/10.29173/alr486>

Metropolitan Water Supply, Sewerage and Drainage Act 1909 (Western Australia).

[https://www.austlii.edu.au/cgi-bin/viewdb/au/legis/wa/consol\\_act/mwssada1909474/](https://www.austlii.edu.au/cgi-bin/viewdb/au/legis/wa/consol_act/mwssada1909474/)

Michael, K., Varma, S., Bekele, E., Ciftci, B., Hodgkinson, J., Langhi, L., Harris, B., Trefry, C. and Wouters, K., 2013. Basin resource Management and Carbon Storage – Part 1: Resource characterisation requirements and evaluation of containment risks at the basin-scale. CSIRO Report for ANLEC R&D Project 3-0515-0057, p. 99. Available online: <https://anlecrd.com.au/projects/resource-management-and-carbon-storage/>.

Michael, K., Whittaker, S., Varma, S., Bekele, E., Langhi, L., Hodgkinson, J. and Harris, B., 2016. Framework for the assessment of Interaction between CO<sub>2</sub> geological storage and other sedimentary basin resources. Environmental Science: Processes and Impacts, 18, p. 164–175.

Mineral and Energy Resources and Other Legislation Amendment (MEROLA) Act 2024 (Queensland), Queensland Government, <https://www.legislation.qld.gov.au/view/html/asmade/act-2024-033>

Mineral and Energy Resources (Common Provisions) Act 2014 (Queensland), Queensland Government.  
<https://www.legislation.qld.gov.au/view/html/inforce/current/act-2014-047>

Mining Act 1978 (Western Australia), Western Australian Government,  
[https://www.legislation.wa.gov.au/legislation/statutes.nsf/main\\_mrttitle\\_604\\_homepage.html](https://www.legislation.wa.gov.au/legislation/statutes.nsf/main_mrttitle_604_homepage.html)

Mory, A.J. and lasky, R.P., 1996, Stratigraphy and structure of the onshore northern Perth Basin, Western Australia: Geological Survey of Western Australia, Report 46, p. 101.

Nicholson, C., Langhi, L., Zhang, Y., Rollet, N., Bernardel, G., Kempton, R. and Kennard, J., 2012. Reducing exploration risk in the offshore northern Perth Basin. AusGeo News March 2012, Issue no. 105.

Norvick, M.S., 2004. Tectonic and stratigraphic history of the Perth Basin, Geoscience Australia Record 2004/16, p. 30. <http://pid.geoscience.gov.au/dataset/ga/61374>

Oil Sands Conservation Act, Alberta Government 1998, <https://open.alberta.ca/publications/o07>

Oil Sands Tenure Guidelines, Alberta Government 2020, <https://www.alberta.ca/oil-sands-tenure-guidelines>

Petroleum and Geothermal Energy Resources Act 1967 (Western Australia), Western Australian Government,  
[https://www.legislation.wa.gov.au/legislation/statutes.nsf/main\\_mrttitle\\_704\\_homepage.html](https://www.legislation.wa.gov.au/legislation/statutes.nsf/main_mrttitle_704_homepage.html)

Petroleum (Submerged Lands) Act 1982 (Western Australia), Western Australian Government,  
[https://www.legislation.wa.gov.au/legislation/statutes.nsf/main\\_mrttitle\\_711\\_homepage.html](https://www.legislation.wa.gov.au/legislation/statutes.nsf/main_mrttitle_711_homepage.html)

Pujol, M., Ricard, L.P. and Bolton, G., 2015. 20 years of exploitation of the Yarragadee aquifer in the Perth Basin of Western Australia for direct-use of geothermal heat. *Geothermics*, 57, p. 39–55.

RISC, 2021. Hydrogen storage potential of depleted oil and gas fields in Western Australia: literature review and scoping study. Geological Survey of Western Australia, Report 221, p. 179.

Rutherford, J., Roy, V. and Johnson, S.L., 2005. The hydrogeology of groundwater-dependent ecosystems in the northern Perth Basin. Hydrogeological record HG11, Department of Environment, Government of Western Australia, Perth.

Saaty, T. L., 1980. The Analytic hierarchy process: planning, priority setting, resource allocation. McGraw-Hill.

S&P Global, 2025. EDIN Database – Exploration and Production Data. S&P Global Commodity Insights.

Stalker, L., Talukder, A., Strand, J., Josh M. and Faiz M., 2022. Gold (hydrogen) rush: risks and uncertainties in exploring for naturally occurring hydrogen. *The APPEA Journal*, 62, p. 361–380.  
<https://doi.org/10.1071/AJ21130>.

Suzuki, N. and Parker, K.L., 2016. Potential conflict between future development of natural resources and high-value wildlife habitats in boreal landscapes. *Biodiversity and Conservation*, 25(14), p. 3043–3073.

Thomas, C.M., 2014. The tectonic framework of the Perth Basin: current understanding: Geological Survey of Western Australia, Record 2014/14, p. 36.

US Environmental Protection Agency (EPA), 2008. Vulnerability evaluation framework for geologic sequestration of carbon dioxide, U.S. Environmental Protection Agency, EPA430-R-08-009, p. 85.

US Department of Energy (DOE), 2019. GeoVision – Harnessing the heat beneath our feet. US Department of Energy, p. 2014. <https://www.energy.gov/eere/geothermal/geovision>.

Varma, S., Underschultz, J., Giger, S.B., Field, B., Roncaglia, L., Hodgkinson, J. and Hilditch, D., 2013. CO<sub>2</sub> geosequestration potential in the Northern Perth Basin, Western Australia. *Australian Journal of Earth Sciences* 60, p. 23–44.

Water Act 2000 (Queensland), Queensland Government.

<https://www.legislation.qld.gov.au/view/html/inforce/current/act-2000-034>

Western Australian Government, 2023. Western Australian Government Gazette No. 101, Perth, Tuesday, 1 August 2023, ISSN 2204-4264.

Western Australian Petroleum and Geothermal Information Management System (WAPIMS), 2025.

Accessed from: <https://wapims.dmp.wa.gov.au/wapims>. Accessed February 2025.

Western Australian Renewable Hydrogen Roadmap 2010, <https://www.wa.gov.au/system/files/2020-12/Western%20Australian%20Renewable%20Hydrogen%20Roadmap%20-%20November%202020.pdf>

Witkowski, A., Rusin, A., Majkut, M., and Stolecka, K., 2014. The analysis of pipeline transportation process for CO<sub>2</sub> captured from reference coal-fired 900 MW power plant to sequestration region. *Chemical and Process Engineering*, 35.

Yielding, G., Bretan, P. and Freeman, B. 2010. Fault seal calibration: a brief review. Geological Society, London, Special Publications, 347, 243–255, <https://doi.org/10.1144/SP347.14>.