



ONSHORE GAS RESEARCH IN WESTERN AUSTRALIA

GISERA | Gas Industry Social and Environmental Research Alliance

Investigating the environmental, social and economic impacts of onshore gas development in Western Australia

CSIRO is conducting a multi-year research program in WA to better understand the environmental, social and economic impacts of onshore gas development in the Canning Basin and North Perth Basin.

CSIRO's Gas Industry Social and Environmental Research Alliance (GISERA), supported by the State and Australian Governments, is conducting research to deliver independent information for communities, government and industry.

Work was initially focused around the Canning Basin and later expanded to the North Perth Basin of WA. To date, GISERA has undertaken a total of 6 projects in WA, of which 2 are now complete.

To help identify Western Australia research priorities, GISERA's WA Research Advisory Committee (WA RAC) reviews and approves research proposals on a range of science questions to which the community, government and local industry seek answers. WA RAC membership comprises of 75 per cent community and 25 per cent government stakeholders.

Image: Canning Basin escarpment, WA. Photo courtesy of Arthur Mory, WA Geological Survey and Resource Strategy Division, Department of Mines, Industry Regulation and Safety.

About CSIRO's GISERA

GISERA is a national collaboration between CSIRO, State and Territory Governments, and industry. CSIRO established GISERA in 2011 to undertake publicly-reported independent research into onshore gas regions, to better inform communities, industry, governments and policy makers. GISERA aims to ensure research conducted by CSIRO is informed by, and of benefit to, the broader community and industry.

Is it independent?

CSIRO has built its reputation on providing impartial, integrated research to industry, regulators and the wider community. GISERA's governance model is central to ensuring independence and transparency in the research undertaken by CSIRO.

How much funding has been committed to this region?

Total funding to date is over \$4.2 million, with contributions from the Australian Government (\$1.3 million), WA Government (\$2.1 million) and CSIRO (\$800,000).

Will this research be available to Queensland public?

All GISERA research is publicly available at gisera.csiro.au along with explanatory fact sheets and videos.

GISERA shares its research through local, regional and national workshops, rural shows, seminars, conferences and technical briefings.



Australian Government
Department of Industry,
Science and Resources



Supported by
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Research projects in Western Australia

RESEARCH SUBJECT AREA	PROJECT	OUTCOMES
Ground and surface waters	Groundwater baseline study of the Canning Basin, Western Australia	COMPLETE: Explored and summarised the current state of knowledge of groundwater systems in the Canning Basin.
	Baseline groundwater and seismicity, northern Perth Basin	UNDERWAY: Improve understanding of seismic activity and groundwater in the northern Perth Basin.
Social and Economic	Community wellbeing and attitudes to the energy transition in the North Perth Basin	UNDERWAY: Provide an in-depth understanding of how energy infrastructure projects in the North Perth Basin region would affect the functioning and well-being of local communities.
Land and Infrastructure	Baseline seismic monitoring of the Canning Basin, WA	UNDERWAY: Establish a long-term baseline of seismic monitoring data that will characterise the current natural seismic activity and cultural seismic noise within the Canning Basin.
	Northern Perth Basin subsurface resources conflicts	UNDERWAY: Help communities, government and industry understand and resolve potential resource conflicts in the northern Perth Basin.
Biodiversity	Baseline assessment of the biodiversity of the Canning Basin, Western Australia	COMPLETE: Assessed the current state of knowledge about the biodiversity of the Canning Basin.

Onshore gas industry infrastructure in the north Perth Basin.



Further information | 1300 363 400 | gisera@csiro.au | gisera.csiro.au

GISERA is a collaboration between CSIRO, Commonwealth and state governments and industry established to undertake publicly-reported independent research. The purpose of GISERA is to provide quality assured scientific research and information to communities living in gas development regions focusing on social and environmental topics including: groundwater and surface water, greenhouse gas emissions, biodiversity, land management, the marine environment, and socio-economic impacts. The governance structure for GISERA is designed to provide for and protect research independence and transparency of research.