



Australia's National
Science Agency

GISERA | Gas Industry Social and Environmental Research Alliance

Progress report

Review of beneficial reuse and end-use options for brine



Progress against project milestones

Progress against milestones/tasks are approved by the GISERA Director, acting with authority in accordance with the [GISERA Alliance Agreement](#).

Progress against project milestones/tasks is indicated by two methods: Traffic light reports and descriptive Project schedule reports.

1. Traffic light reports in the Project Schedule Table below show progress using a simple colour code:

- **Green:**

- Milestone fully met according to schedule.
- Project is expected to continue to deliver according to plan.
- Milestone payment is approved.

- **Amber:**

- Milestone largely met according to schedule.
- Project has experienced delays or difficulties that will be overcome by next milestone, enabling project to return to delivery according to plan by next milestone.
- Milestone payment is withheld.
- Milestone payment withheld for second of two successive amber lights; project review initiated and undertaken by GISERA Director.

- **Red:**

- Milestone not met according to schedule.
- Problems in meeting milestone are likely to impact subsequent project delivery, such that revisions to project timing, scope or budget must be considered.
- Milestone payment is withheld.
- Project review initiated by GISERA Director.

2. Progress Schedule Reports outline task objectives and outputs and describe, in the 'progress report' section, the means and extent to which progress towards tasks has been made.

Project schedule table

TASK NUMBER	TASK DESCRIPTION	SCHEDULED START	SCHEDULED FINISH	COMMENT
1	Review of literature and existing and emerging innovative technologies and solutions for beneficial reuse or end-use options for brine	February 2023	August 2023	Completed
2	Techno-socio-economic analysis	September 2023	November 2023	
3	Communication and engagement with selected local stakeholders	February 2023	February 2024	
4	Communication and reporting	February 2023	February 2024	

Project schedule report

TASK 1: Review of literature and existing and emerging innovative technologies and solutions for beneficial reuse or end-use options for brine

BACKGROUND

Task 1 will involve a detailed review of literature and existing and emerging approaches to beneficial reuse and end-use of brine, which could be applicable to the NGP. A wide range of literature including publicly accessible reports and web-based resources related to CSG extraction in Australia or globally will be reviewed. Scientific journals will also be reviewed to find potential options for brine reuse and end-use, and salt management that may not have been previously considered.

TASK OBJECTIVES

- 1) Review previous work as published in reports, journals, and web-based resources; and
- 2) Use this information to inform Tasks 2, 3 and 4.

TASK OUTPUTS AND SPECIFIC DELIVERABLES

A draft report that comprehensively reviews previous work will be prepared. This information will feed into later tasks and the results will be discussed in detail in the final report.

PROGRESS REPORT

The review of literature and existing and emerging approaches to beneficial reuse and end-use of brine, which could be applicable to the NGP has been completed. This information is now being used for conducting socio-techno-economic analyses of selected options.

Variations to Project Order

Changes to research Project Orders are approved by the GISERA Director, acting with authority, in accordance with the [GISERA Alliance Agreement](#). Any variations above the GISERA Director’s delegation require the approval of the relevant GISERA Research Advisory Committee.

The table below details variations to research Project Order.

Register of changes to Research Project Order

DATE	ISSUE	ACTION	AUTHORISATION

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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.