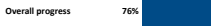


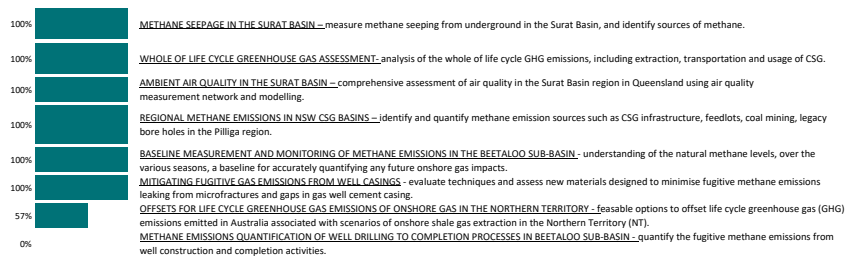
Surface and groundwater

Current research projects are looking at maximising the amount of treated coal seam gas water that can be re-injected into aquifers.



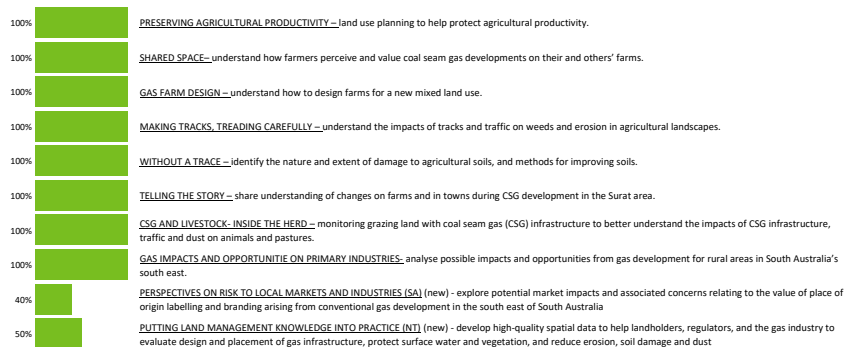
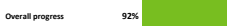
Greenhouse gas footprint

Current research project is looking at characterising methane emissions from the Surat Basin.



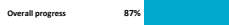
Agricultural land management

Current research projects are designed to maximise agricultural productivity during and beyond the life of gas extraction on farms.



Socio-economic

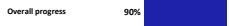
Current research projects are identifying what communities want and need to help inform and support changes occurring in coal seam gas development regions.



- 100% **MONITORING REGIONAL TRANSITION** – track and document the population and monetary changes occurring in coal seam gas development regions.
- 100% **COMMUNITY FUNCTIONING AND WELL-BEING** – understand what makes communities strong and how they respond to major developments.
- 100% **UNDERSTANDING COMMUNITY ASPIRATIONS** – understand how different sectors of the community see the future of their region.
- 100% **ECONOMIC ASSESSMENT AND FORECASTING** – understand future impacts on regional economies and how local businesses can respond.
- 100% **COMMUNITY FUNCTIONING AND WELL-BEING 2** – conduct a community well-being survey to measure the changes since the end of the construction and start of the operations phases and compare results with the Survey 1 in 2014.
- 100% **SOCIAL BASELINE ASSESSMENT OF THE NARRABRI REGION OF NSW IN RELATION TO CSG DEVELOPMENT** – understand and measure attitudes, perceptions and expectations that exist within the community with respect to CSG development, and current levels of community wellbeing and community resilience.
- 100% **ANALYSING ECONOMIC AND DEMOGRAPHIC TRAJECTORIES IN NSW REGIONS EXPERIENCING CSG DEVELOPMENT AND OPERATIONS** – identify current levels and trajectories of economic, social and demographic variables in CSG regions and analyse if the CSG industry could change the trajectories.
- 100% **DECOMMISSIONING PATHWAYS FOR CSG PROJECTS** – the project will review regulatory frameworks in relation to principles derived from international literature and consider social concerns with regard to decommissioning of wells and well pad infrastructure.
- 100% **TRENDS IN COMMUNITY WELLBEING AND ATTITUDES TO CSG DEVELOPMENT- SURVEY 3** – involves monitoring and communicating the changes and trends in community wellbeing, resilience and attitudes to CSG development across different phases of industry operation.
- 100% **COMMUNITY WELL-BEING AND ATTITUDES TO CONVENTIONAL GAS DEVELOPMENT IN THE SOUTH EAST OF SOUTH AUSTRALIA** – measure levels of perceived risk, benefits, knowledge, and other underlying drivers of trust and social acceptance of conventional gas development in SA's south east, and develop baseline data on community values, well-being and future expectations.
- 100% **ASSESSING THE VALUE OF LOCALLY PRODUCED CONVENTIONAL GAS IN SA'S SOUTH EAST** – develop a profile of the gas industry and it's role within the regional economy and develop scenarios for how the local gas industry may evolve.
- 100% **ASSESSING AND PROJECTING ON-SHORE GAS EFFECTS ON REGIONAL ECONOMIC ACTIVITY IN NSW** – analyse the extent to which the on-shore gas industry influences regional economic and social indicators such as changes in industry mix, employment, land development, productivity and human capital.
- 0% **MONITORING COMMUNITY WELLBEING AND ATTITUDES TO CSG IN NARRABRI (PRE-CONSTRUCTION PHASE) (new)** – monitor any changes in local community wellbeing and attitudes to coal seam gas (CSG) during the pre-construction phase of the Santos Narrabri Gas Project in NSW.
- 0% **THE ROLE OF GAS IN SOUTH AUSTRALIA** (new) – clarify the role of natural gas in meeting the state's renewable energy, security, emissions and energy pricing goals
- 60% **MAPPING FUTURE TRANSPORT PASSAGES AND VOLUMES FOR IMPROVED PLANNING AND OPERATION** (new) – Using scenarios of both construction and operational phases of gas development, this project will analyse road and rail freight costs, flows and impacts for identified sites and regions in the Beetaloo Sub-basin in the Northern Territory
- 0% **MONITORING COMMUNITY WELLBEING AND ATTITUDES TO CSG IN NARRABRI (CONSTRUCTION PHASE) (new)** – monitor any changes in local community wellbeing and attitudes to coal seam gas (CSG) during the pre-construction phase of the Santos Narrabri Gas Project in NSW.

Health impact

Current research projects are focusing on reviewing current information to look for potential health impacts of coal seam gas.



- 100% **HUMAN HEALTH EFFECTS OF CSG** – a review will be conducted of the current information to design a study on the health effects of CSG activities based on community stakeholder, governmental, expert consultation group, and industry input.
- 83% **POTENTIAL HEALTH IMPACTS FROM CSG** – identify and screen for potential human health effects of coal seam gas (CSG) activity, including establishing processes and governance to ensure research quality.

Terrestrial biodiversity

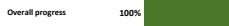
Current research projects are identifying cost-effective actions that can be taken to reduce threats to plants and animals.



- 100% **PRIORITY THREAT IDENTIFICATION AND MANAGEMENT** – identify and understand the range of existing and new threats to biodiversity across a coal seam gas development region.
- 100% **FIRE ECOLOGY OF GRASSY WOODLANDS** – determine how sensitive animals and plants are to burning events in coal seam gas development areas.
- 100% **HABITAT SELECTION BY TWO FOCAL SPECIES** – understand the range of impacts from CSG development on Golden-tailed gecko and Glossy black-cockatoo habitats.
- 100% **ENSURING BIODIVERSITY OFFSET SUCCESS: RUTIDOSIS LANTANA** – identify genetic and demographic factors that may limit the success of establishing a rare daisy (Rutidosia lantana) in a new location.
- 100% **GUIDELINES FOR OFFSET POPULATION SIZES** – improve the understanding of how ecological and biological traits of rare species of plants, commonly encountered in restoration projects, and different environmental factors determine viable population sizes
- 0% **UNDERSTANDING AND MANAGING IMPACTS TO BIODIVERSITY FROM ROADS AND PIPELINES IN THE BEETALOO** (new) – investigate how roads, pipelines and other linear transport infrastructure may impact biodiversity in the Beetaloo Sub-basin during the development of an onshore gas industry
- 100% **BASELINE ASSESSMENT OF THE BIODIVERSITY IN THE CANNING BASIN** (new) – assess the current state of knowledge about the biodiversity of the Canning Basin in Western Australia

Marine environment

Current research projects are examining how sediments from dredging and discharge affect seagrass and turtle feeding grounds.



- 100% **SUSTAINING TURTLES AND THEIR HOMES** – understand how sediments from dredging and discharges affect seagrass and turtles.

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