

# Proponent commitments **F**

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# **Gas Field Development Project Environmental Impact Statement**

## **Appendix F: Commitments**

GLNG is a Santos PETRONAS Total KOGAS venture.



# 1 Commitments

The Terms of Reference requires a list of all commitments made in the environment impact statement (EIS), together with a reference to the relevant section in the EIS. Presented in Table 1-1 below are the commitments from the GLNG Gas Field Development (GFD) Project EIS. This list of commitments are exclusive of the commitments made by Santos GLNG in the Draft EM Plan of this EIS (Appendix Y) or its appended management plans or that are legally required by policy or regulation.

Table 1-1 Commitments

Commitment	Cross-reference
<b>Project approvals</b>	
The proponent will discuss water requirements for the project under the Water Resource (Fitzroy Basin) Plan 2011 with the administering authority.	Section 2
<b>Project description</b>	
To transport the gas and/or water from the production wells to the gas compression facilities/water management facilities, Santos GLNG will utilise existing gathering lines and transmission pipelines where practicable.	Section 4.4.2
Where practicable, Santos GLNG will utilise existing pipelines, water storage and water management facilities to assist in the management of water produced by the GFD Project.	Section 4.4.4
To accommodate the projected workforce generated during the construction and operations phases, Santos GLNG will develop camps within the GFD Project area to supplement the existing accommodation, services and amenities.	Section 4.6.1.1
Rail transportation may be possible and will be considered in the planning stages.	Section 4.6.6.1
Where available, the GFD Project will use existing communications services developed for the GLNG Project.	Section 4.6.6.5
<b>Management framework</b>	
The established and effective work procedures that Santos GLNG has developed and implemented for the GLNG Project will also be used for the GFD Project.	Section 6.3.5.1
Work instructions will be prepared for operations staff and contractors working on a specific activity or at a specific location with environmental and /or safety risk and provide detail of how the project-wide plans and strategies are implemented at an asset level.	Section 6.3.5.2
<b>Climate and climate change</b>	
Santos GLNG has previously undertaken flood risk modelling for the GLNG Project. Flood levels for both the 50 and 100 year ARI (average recurrence interval) event were investigated along waterways within a 5 km radius of proposed hub and longer term campsite areas as appropriate. The siting of infrastructure will consider the potential risks of atmospheric and climate factors (storms events / cyclones, duration and ranges of temperature and rainfall). This same procedure will be applied to the GFD Project prior to final siting of camps or permanent infrastructure.	Section 7.4.3.2 Section 7.6.3
The following mitigation measures will be implemented. They consider the range of atmospheric and climatic factors: <ul style="list-style-type: none"> <li>• Engineering design specifications</li> <li>• Inspection and maintenance programs</li> <li>• Procedures, control strategies and awareness training on the management of potential risks associated atmospheric and climate factors.</li> </ul>	Section 7.6.3

Commitment	Cross-reference
<b>Land Resources</b>	
It is not expected that significant fossil specimens (such as dinosaur tracks) will be encountered during construction or operational activities on the project area. However if there is a significant find the Queensland Museum will be notified.	Appendix K Section 4.3.3
Santos GLNG will review local government's pest and weed management plans and apply measures from these to the PWMP where it is appropriate.	Section 8.6 Section 12.6.2 Section 18.6 Appendix K Section 5.4 Appendix J
<b>Landscape and visual amenity</b>	
Night lighting will be provided for safety and security within the accommodation facilities and possibly at gas compression and water management facilities for operational reasons. Exterior night lights are typically hooded or pointed inwards where required to minimise glare escaping beyond the immediate area.	Appendix L Section 5.1.4 Appendix L Section 5.2.1.1
<b>Traffic and transport</b>	
Santos GLNG will continue to engage with TMR and regional councils in the application of existing infrastructure agreements to the GFD Project.	Section 11.6.1
If airports other than Roma are to be considered for use they will be assessed accordingly and the relevant approvals process will be applied.	Appendix M Section 3.11
Rail transportation may be possible and will be considered in the planning stages. The use of ports will be required for the importation of equipment and construction materials.	Appendix M Section 6.2.1
The Road-use Management Plan was developed to manage the impact associated with the implementation of the Santos GLNG Project. It will be adapted to manage the potential impacts resulting from the GFD Project. The objectives of the plan include: <ul style="list-style-type: none"> <li>• Manage the efficiency of the road network impacted including State-controlled roads and local government roads</li> <li>• Ensure user safety and safe operation of vehicles</li> <li>• Minimise impacts on road infrastructure condition</li> <li>• Minimise traffic related complaints and incidents to maintain community amenity.</li> </ul> The Road-use management plan will be prepared in consultation with government agencies as required including DTMR and QPS.	Section 11.6.3 Appendix M, Section 10.4 Appendix K Section 5.3 Section 8.6 Appendix J Section 7
<b>Waste</b>	
Allowable annual capacity for a licenced landfill will be confirmed in consultation with the relevant operator once actual location and timing for development of GFD Project components are known.	Section 12.4
Where new gas field infrastructure is developed, Santos GLNG will design and engineer infrastructure (e.g. gas compression and water management facilities) with consideration for energy efficiency and to minimise losses (e.g. gas, water, materials, etc.).	Section 12.5.1
<b>Surface water</b>	
Santos GLNG will continuously seek to find new ways to minimise our environmental impact across the lifecycle of our activities.	Appendix N Section 2.5
As outlined in the [Environmental Protocol for Constraints Planning and Field Development for the GFD Project (the Constraints protocol)], prior to final siting of longer term campsite areas or permanent infrastructure (that are not pipelines or roads), flood levels for the 50 and/or 100 year ARI (average recurrence interval) event will be investigated along waterways and within a 5 km radius of proposed location.	Appendix N Section 5.4
<b>Groundwater</b>	
Santos GLNG will continue to take into account naturally occurring geological faults as part of the stimulation risk assessment process and continue to supply information to enable ongoing OGIA research into naturally occurring faults.	

<b>Commitment</b>	<b>Cross-reference</b>
<b>Terrestrial ecology</b>	
Where required, Santos GLNG will provide suitable offsets for activities that result in an unavoidable significant adverse impacts. The offsets will be submitted for approval in accordance with State and Commonwealth Government requirements. Santos GLNG will not exceed the stated maximum impact for each value.	Appendix R Section 5.3.1 Appendix A of Appendix AB
<b>Aquatic ecology</b>	
Once the exact nature and location of the impacting processes has been identified, location-specific aquatic ecology surveys may be undertaken to refine the proposed controls to avoid, minimise and mitigate potential impacts to aquatic ecology as required.	Appendix S Section 3.2.1
Where practical, baseline (pre-discharge) surveys will be undertaken to provide a basis for future impact assessment.	Appendix S Section 5.7.3.1
<b>Social</b>	
Santos GLNG will work with the Department of Education, Training and Employment during the EIS consultation period and during field planning to provide further detail on workforce requirements, including occupational breakdown.	Section 21.4
Santos GLNG will implement the SIMP and social issues action plans.	Appendix AC
<b>Economics</b>	
Santos GLNG has adopted Code of Practice for Local Content and it will implement it for the GFD Project.	Section 22.6
Santos GLNG is committed to working with government, industry and the community to manage economic impacts with specific focus on addressing issues around workforce and housing through its social impact management plan and on increasing local industry participation through its adoption of the QRC Code of Practice for Local Content.	Sections 22.5.5, 22.6 and 22.7
<b>Health and safety</b>	
The GFD Project will adopt a systematic health and safety management approach that provides for risk identification and assessment, hazard analysis, management and control, and reporting to protect workers in accordance with regulatory requirements. In this way, Santos GLNG will ensure, so far as is reasonably practicable, the health and safety of workers at the workplace.	Section 23.2.1
Santos GLNG will engage with Queensland Ambulance Service and Queensland Fire and Emergency Services across the life of the GFD Project concerning joint responsibilities for emergency response.	Section 23.6.2
<b>Preliminary hazard and risk</b>	
Risks will be managed to ALARP throughout the GFD Project's lifecycle using existing controls as documented in Santos GLNG Environment, Health, and Safety Management Standard EHSMS09: Managing Environment, Health and Safety Risks (EHSMS09) and supporting process (e.g. planning and engineering design).	Section 24.7 Appendix X Sections 1.3.1, 1.3.2, 11.1.1, 11.1.2
Ongoing management of the risk and demonstration of ALARP will be achieved by the GFD Project through the implementation of EHSMS09 and supporting processes including: <ul style="list-style-type: none"> <li>the development of the Significant Hazards Risk Register (SHRR) for the GFD Project</li> <li>update of the SHRR as the GFD Project matures</li> <li>implementation of Integrity Management Plans to assure the asset integrity and risk controls remain effective over the life of the GFD Project.</li> </ul>	Appendix X Sections 1.4, 11.2, 10.1
Hazards and risks associated with the GFD Project will be managed by implementation of measures based on best engineering practices through each phase of the GFD Project. The measures applied have been based on the existing measures that Santos GLNG has already developed and implemented for the GLNG Project. Applying the same measures from the GLNG Project to the GFD Project will ensure a consistent approach by construction and operational personnel and a common understanding for both regulators and the community of the measures to be applied.	Appendix X Section 4.5
Santos GLNG will engage with Queensland Ambulance Service and Queensland Fire and Emergency Services across the life of the GFD Project concerning joint responsibilities for emergency response.	Section 24.6 Appendix X section 4.6

Commitment	Cross-reference
<b>Cumulative impacts</b>	
Santos GLNG will explore opportunities for collaboration in cumulative impact management through existing arrangements in consultation with State and local governments, industry and communities.	Section 26.5.14.6
<b>Ecologically sustainable development</b>	
The sustainability performance of the GFD Project will be incorporated into the annual corporate sustainability scorecard report.	Section H.4