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# ENVIRONMENTAL IMPACT STATEMENT - HEYBRIDGE SHORE CROSSING

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Summary Report - January 2025

**MARINUS**  
LINK





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We acknowledge the First Peoples of the Country on which Marinus Link is proposed in Tasmania, across Bass Strait and in Victoria. We recognise the Tasmanian Aboriginal Community and Traditional Owners in Victoria and their continuing connection to land, sea, waterways, sky and culture, and pay our respects to all elders past and present.

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**MARINUS**  
LINK



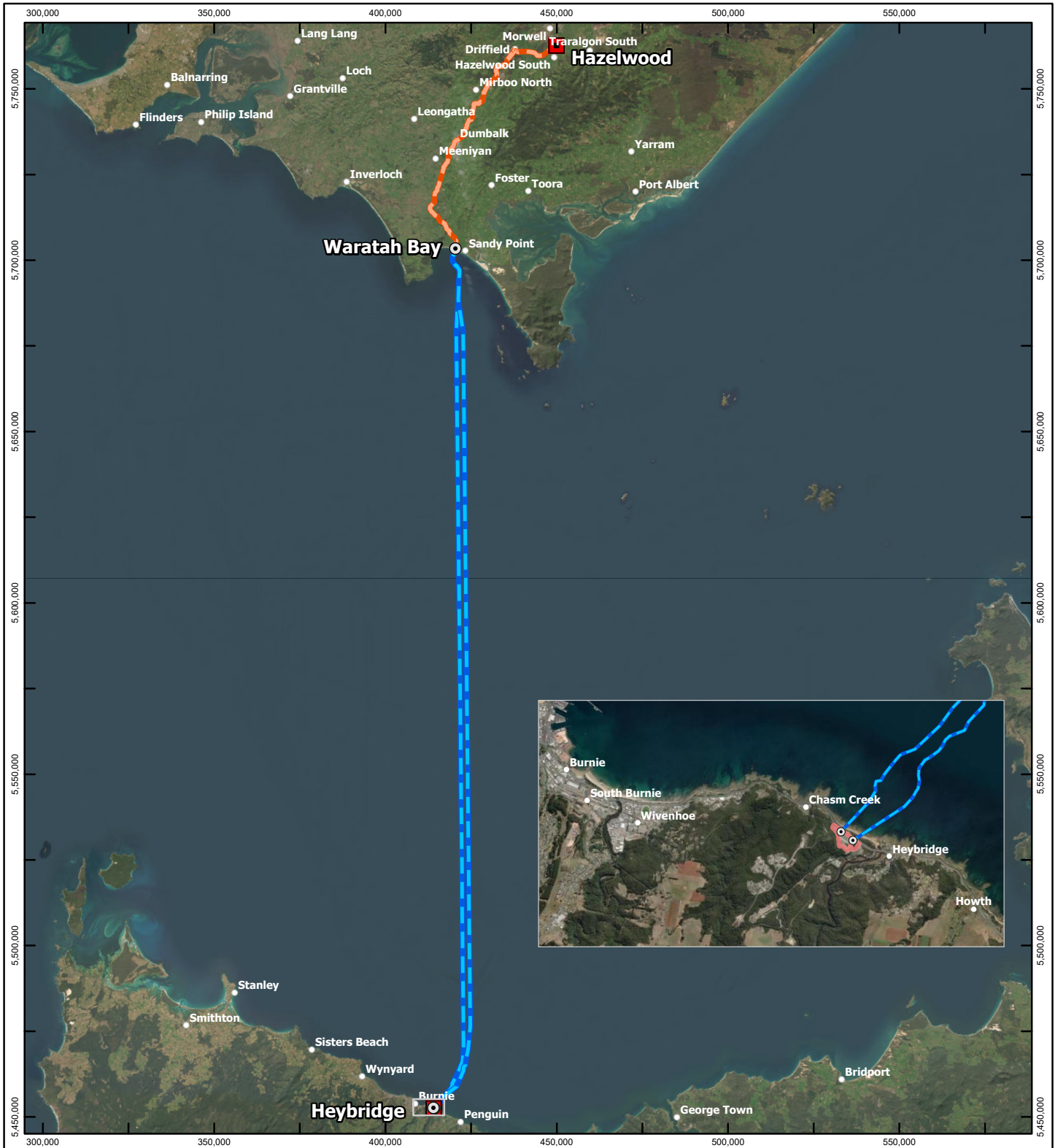
# Executive Summary

## Overview

This Environmental Impact Statement (EIS) presents the findings of the assessment of potential impacts of the Heybridge Converter Station (the proposal), which is an essential part of the Marinus Link project.

The Marinus Link project (the project) is a 1500 megawatt (MW) high voltage direct current (HVDC) electricity and telecommunications interconnector, linking Tasmania's renewable energy resources into the National Electricity Market (NEM) via connection at Hazelwood in the Latrobe Valley in Victoria. The project is to be delivered in two 750MW stages. Increasing the capacity and security of energy across the NEM, including in Tasmania, the project would allow more efficient use of energy generated by current renewable energy developments and encourage new renewable energy development in both regions. The project responds to the imperative of the transformation of the Australian electricity system and is supported by government policy.

Marinus Link Pty Ltd (MLPL) is the proponent for the project. MLPL was formed in 2018 for the purpose of constructing the project as a wholly owned subsidiary of Tasmanian Networks Pty Ltd (TasNetworks). TasNetworks is owned by the State of Tasmania and owns, operates, and maintains the electricity network in Tasmania. MLPL is now owned by the Commonwealth (49%), Tasmanian (17.7%) and Victorian (33.3%) governments.



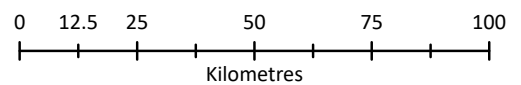
**Figure ES-1: The project**

Scale: 1:1,500,000 @ A4

Spatial Reference: GDA2020 MGA Zone 55

**Legend**

- Proposed Converter Station
- ⊙ HVDC Landfall
- Proposed Underground HVDC Cable
- Proposed HVDC Subsea Cable



**Acknowledgements and Sources:**

Data Source: Data is held by the Marinus Link GIS Data Repository.  
 Background Image: ESRI - Earthstar Geographics  
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# Project objectives and benefits

**Tasmania has significant renewable energy resource potential, particularly hydroelectric power and wind energy. The potential size of the resource exceeds the Tasmanian electricity demand as well as the capacity of the existing Basslink interconnector.**

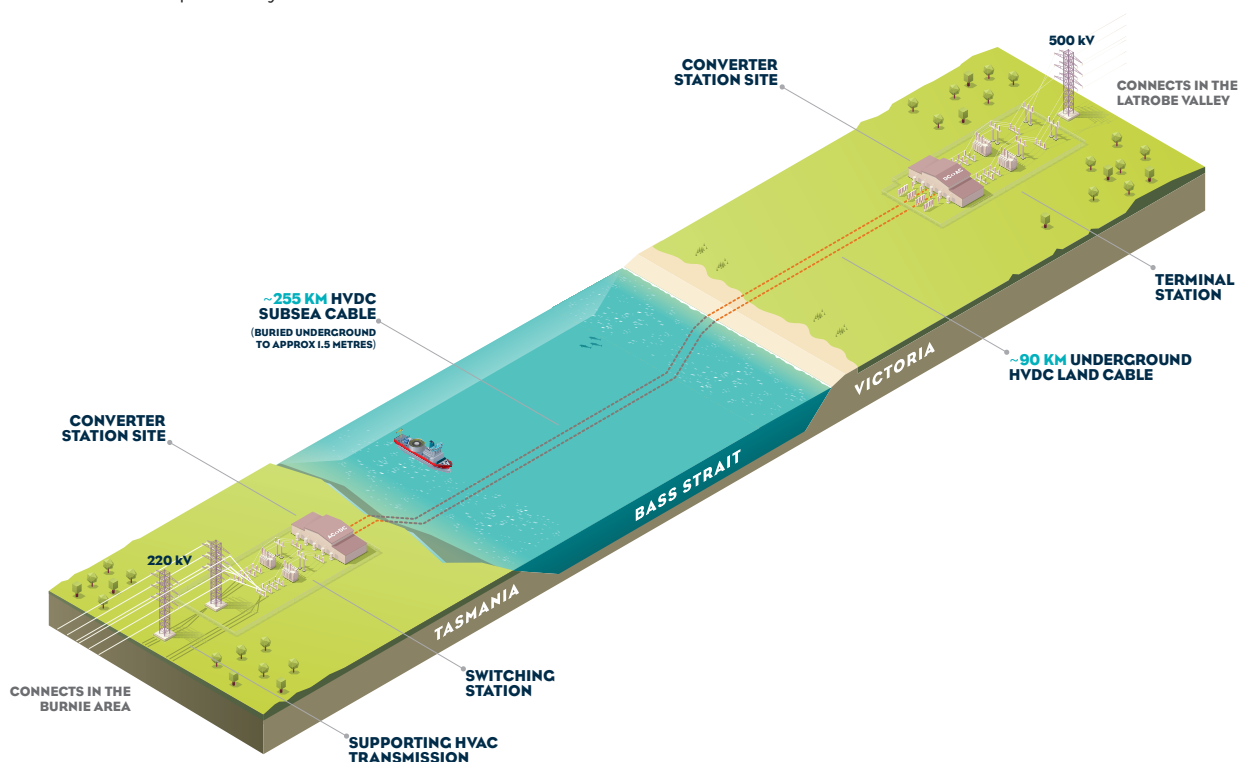
The reduced use of coal-fired generators in the mainland states is also reducing the availability of dispatchable energy in Victoria and potentially to Tasmania. Dispatchable energy is electricity supply that can be easily turned on and off in response to demand.

The project is proposed to deliver an additional 1500 MW capacity connection between Tasmania and Victoria which would more than triple the continuous capacity currently provided, bringing the total dispatchable energy between Tasmania and Victoria to around 2000 MW. This means that there would be more opportunities for Tasmania to send electricity to the mainland and greater energy security for Tasmanians.

## In summary, the project would:

- ◇ Provide additional trading capacity between Tasmania and mainland Australia to support the transition of the NEM to a lower emissions system, while maintaining a secure and stable power system.

- ◇ Increase Tasmania's energy security by providing two further links to the mainland that are geographically separate to Basslink, reducing the impact of a failure.
- ◇ Support development of further renewable energy generation projects in Tasmania by an estimated annual average additional generation capacity of 1,500 MW, further increasing Tasmania's energy security and reducing the carbon intensity of the NEM.
- ◇ Support a reduction of energy costs through reducing the costs of future generation, energy storage and transmission infrastructure by using existing infrastructure to its full potential; increasing development and availability of relatively low-cost energy capacity; and reducing reliance on gas generation to provide dispatchable energy.
- ◇ Provide an estimated \$1.36 billion in economic contribution to Tasmania from the construction and operation of the project until 2050.
- ◇ Support 430 full time equivalent (FTE) job years at peak construction times in Tasmania and 15 FTE job years for operations.
- ◇ Increase Tasmania's telecommunications capacity by: 150 times the current capacity through construction of high capacity fibre optic cables, one bundled with each stage of the electricity interconnector.



# The project details

The proposed 1500 MW HVDC electricity interconnector between Heybridge in North West Tasmania and Hazelwood in the Latrobe Valley in Victoria would be built in two 750 MW stages. Each stage would comprise two power cables and a fibre optic communications cable. The final project would therefore deliver four power cables and two telecommunications cables.

The project's key components, from Tasmania moving north to Victoria are:

- ◇ High voltage alternating current (HVAC) switching station and two HVAC-HVDC converters at a station at Heybridge in Tasmania.
- ◇ Shore crossing in Tasmania adjacent to the converter station. The shore crossing would be constructed using horizontal directional drilling (HDD) under Bass Highway, the Western Line Railway and coastal land to approximately 10 metre (m) water depth (this is the Heybridge Shore Crossing, 'the proposal' subject to this EIS).
- ◇ Approximately 255 kilometres (km) of subsea cable across Bass Strait from Heybridge in Tasmania to Waratah Bay in Victoria. The subsea cables for each stage would be laid approximately 2 km apart except near the shore where two cables would come closer together to enable them to be pulled through the shore crossings.
- ◇ Shore crossing in Victoria at Waratah Bay approximately 3 km west of Sandy Point. The shore crossing would be constructed using HDD under the coastal dunes to about 10 m water depth.
- ◇ Land-sea cable joint where the subsea cables would connect to the land cables in Victoria.
- ◇ Communications building (fibre optic cable inspection and test hut) adjacent to Waratah Bay.

- ◇ Approximately 90 km of underground land cables laid in pairs in two trenches in Victoria, extending from the land-sea joint to the converter station site at Hazelwood.
- ◇ HVAC-HVDC converter station at Hazelwood, adjacent to the existing Hazelwood Terminal Station, where the project would connect to the existing Victorian transmission network.

The project is proposed to be constructed in the following stages:

- ◇ **Stage 1** – eastern symmetrical monopole (circuit) and associated converter station infrastructure at Heybridge and Hazelwood anticipated to be commissioned by the end of 2030. Civil works, HDD drilling and installation of cable conduits and joint pits for both stages would be completed in Stage 1. This would minimise the extent of works associated with Stage 2 and provide for the efficient delivery of the second circuit at a time determined by market demand.
- ◇ **Stage 2** – western symmetrical monopole (circuit) and additional converter station infrastructure anticipated to be commissioned after Stage 1, according to market demand.

The project, including the Shore Crossings, would be operational upon completion of Stage 1. Stage 1 is anticipated to be commissioned by the end of 2030. The actual timeframe for Stage 2 would be determined by market demand with a likely scenario being that Stage 2 is commissioned by 2033. It would operate 24 hours a day and 365 days a year and has an expected operational life of at least 40 years.

Read more about the proposal in Section 2, and the process for selecting the location of the proposal site and the route of the project in Section 3.

# The Heybridge Shore Crossing

## **The proposal involves the construction, operation and decommissioning of the Heybridge Shore Crossing, which includes:**

- ◇ Two temporary HDD launch pads (referred to as the launch pad site), one at each of the western and eastern ends of the Heybridge Converter Station site.
- ◇ Six HDD bores, and cable installation, from the HDD launch pads and drilled below Bass Highway and the Western Line Railway extending approximately 1 km into Bass Strait (at approximately 10 m water depth) (referred to as the underground crossings).
- ◇ Subsea cable installation from the HDD exit point (at approximately 10 m water depth) to within 3 nautical miles (NM) within Tasmanian coastal waters. Once in Bass Strait, the subsea cables for each stage would be laid in two bundles that each comprise two power cables and one fibre-optic cable (referred to as the seabed alignments).
- ◇ Operation and decommissioning of the subsea cables (within Tasmanian coastal waters consistent with the decommissioning of the length of the cables across Bass Strait).

## **The construction of the proposal would involve:**

- ◇ Establishment of access to the HDD launch pads.
- ◇ Earthworks to construct the HDD launch pad, including remediation and/or disposal of contaminated soils, should they be disturbed for the purpose of these works.
- ◇ HDD activities including installation of cable joint pits, drilling, trenching and cable protection works as necessary, and pull through of cables.

The construction of the proposal is anticipated to be carried out in two stages over four to seven years. Stage 1 would involve establishment of the HDD pads, the drilling of six bores and laying the eastern cable circuit. Stage 2 would involve laying of the western cable circuit.

There are no ongoing operational requirements related to the land component. Operational activities associated with the proposal are related to the inspection and maintenance of the subsea cables.

Decommissioning arrangements for the cables in the Tasmanian waters would be consistent with the requirements for the entire subsea cables across Bass Strait as determined under the *Commonwealth Offshore Electricity Infrastructure Act 2021* (OEI Act). Read more about decommissioning of the proposal in Section 7.

The final design and construction methodology would be completed following project approvals and appointment of construction contractor/s.

## **The proposal site**

The launch pad site and the shoreside underground crossings are located within the semi-rural locality of Heybridge in North West Tasmania on the eastern border of the Burnie City Council local government area (LGA), west of the Blythe River and the Central Coast Council LGA.

The underground crossings would pass beneath Bass Highway and the Western Line Railway and under coastal land, which is partly protected as an informal public reserve, covered by a Crown lease.

The exit point for the underground crossings is on sloping seabed of Bass Strait. The seabed slope for the seabed alignments gradually decreases from the coastline to the 40 m depth contour. The seabed alignment generally corresponds with paleochannels in the rock platform (i.e., prior channels of a river) that extend offshore from the beach.

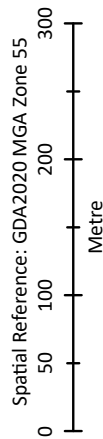


**Figure ES-3:  
Proposal Site Location**

**Legend**

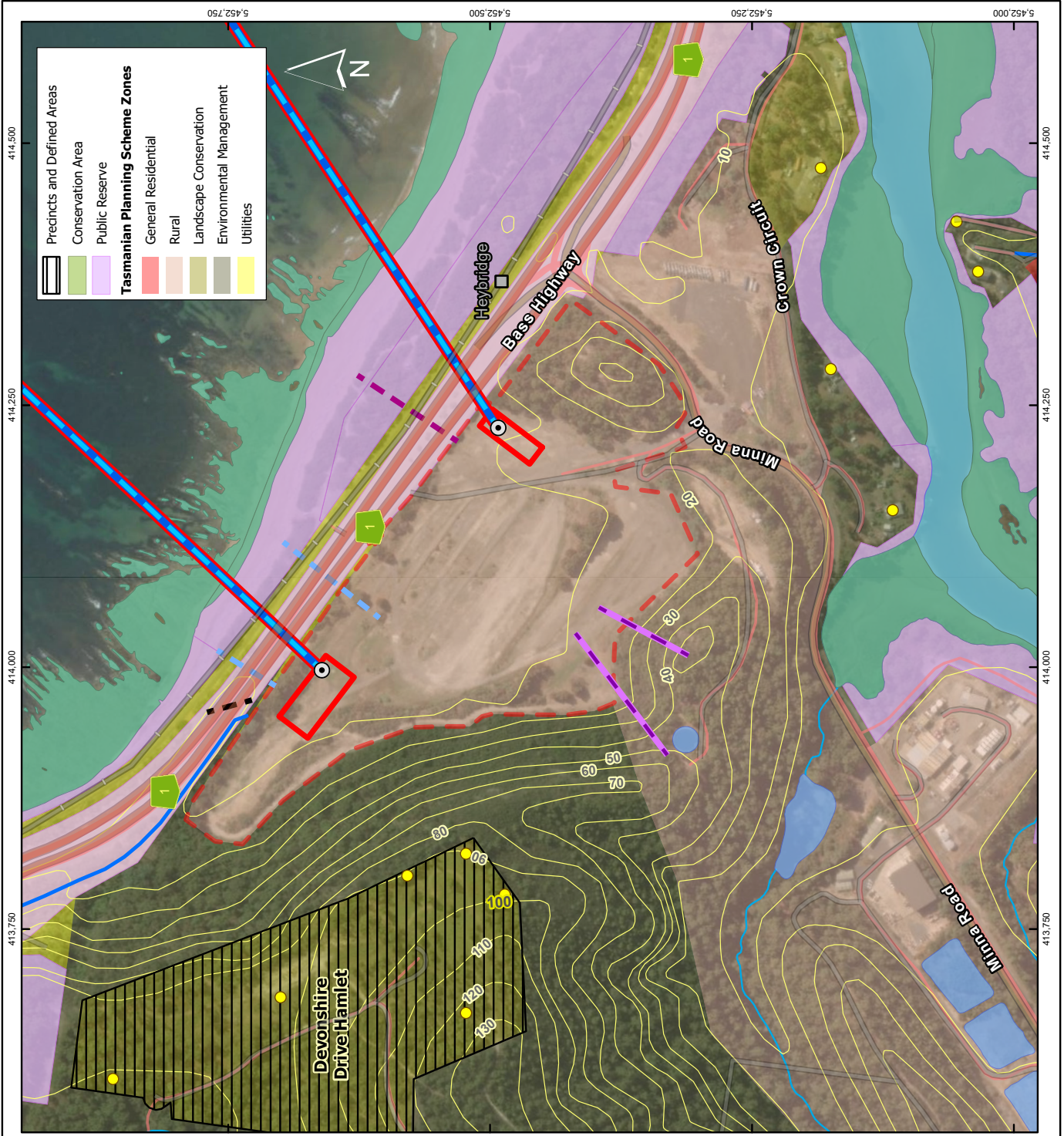
- HVDC Landfall
- Proposed HVDC Subsea Cable
- Proposal Site
- Converter Station Proposal Site
- Proposed NWT Power Line
- Noise Receptor Location
- Existing Utilities and Infrastructure**
- Former Rail Underpass
- Stormwater Pipe
- Tioxide Outfall Channel
- Taswater Reticulation Main
- Hydrography and Topography**
- Estuary
- Tidal Zone
- Water Body
- Watercourse
- Elevation Contours (10m Interval)**
- Major Road
- Minor Road

Scale: 1:5,000 @ A4



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Acknowledgements and Sources:  
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Produced By: Marinus Link for the Tasmanian Heybridge Converter Station EIS. Date Figure Exported: 22/11/2024





# Tasmanian project assessment

The project is subject to Tasmanian, Victorian and Commonwealth project assessment legislation, however the Heybridge Shore Crossing proposal is being assessed in this EIS exclusively for the purpose of Tasmanian laws, which demonstrates compliance with Tasmanian regulations, standards, and guidelines.

A referral for the proposal was submitted to Environment Protection Authority Tasmania (EPA) on 8 July 2022, and it was determined that the proposal will be subject to environmental impact assessment by the Board of the EPA (EPA Board) under Section 27 of the *Environmental Management and Pollution Control Act 1994* (EMPC Act).

EPA issued EIS guidelines to provide guidance about what should be addressed in the assessment of this proposal. This EIS has been prepared in accordance with the EIS Guidelines: Heybridge Shore Crossing for Marinus Link September 2022 (EIS guidelines). The EIS guidelines, along with reference to where these have been addressed in this EIS, are provided in Appendix A. The EIS will be assessed by the EPA Board in accordance with the EMPC Act and associated regulations and policies.

If the EPA Board approves the proposal, it would issue an environment protection notice for the proposal, subject to any conditions or restrictions. A permit under the *Land Use Planning and Approvals Act 1993* (LUPA Act) is not required for the proposal.

# Community consultation

MLPL has been raising awareness of the project since 2018, well in advance of the preparation of this EIS. It has provided information and sought feedback from the community and environmental groups, government departments and agencies (federal, state and local), the Tasmanian Aboriginal Community and peak industry bodies. Community and stakeholder engagement has included contact, collaboration and information sharing between MLPL and other organisations or individuals.

The project has adopted a best-practice approach to meet the engagement requirements for the EIS guidelines. This approach involves establishing and implementing an effective process for providing information about the proposal to seek feedback and incorporate the feedback into the development and delivery of the proposal as part of the project.

The four key pillars guiding MLPL's communication and engagement with community members and stakeholders include:

- ◇ Raise awareness and educate.
- ◇ Build and maintain trust.
- ◇ Foster relationships.
- ◇ Enhance economic development.

Read more about the consultation that has preceded the publication of the EIS and the proponent's plans for ongoing community engagement in Section 4.

## The approach to assessing and minimising impacts of the proposal

The EIS describes and assesses the potential impacts from construction, operation and decommissioning of the Heybridge Shore Crossing. It adopts as appropriate a risk-based, sensitivity based or compliance based approach to environmental assessment.

The environmental aspects assessed were identified in the EIS guidelines. Where required, technical studies have been completed to inform the EIS, providing detailed technical assessments of different environmental and social disciplines to address the EIS guidelines. Technical studies supporting this EIS are provided in the Appendices.

### The technical studies have involved:

- ◇ Assessing existing conditions and identifying relevant values.
- ◇ Reviewing the project description and identifying credible impact pathways – where project activities could result in an impact on the value.
- ◇ Assessing the potential impacts of activities undertaken for the project on the values.
- ◇ Where a need is identified to reduce impacts, developing management measures that reduce the impacts.
- ◇ Assessing the residual impacts on values.

Following identification of the potential risk or potential impact, technical specialists have identified mitigation measures to avoid, mitigate and/or manage the potential impacts of the proposal.

Where relevant, the technical studies have assessed the potential impacts of this proposal together with the proposed Heybridge Converter Station, which is the subject of a separate EIS, and have developed mitigation measures that would apply to, and manage the impacts of, both proposals.

The proposal would be delivered in accordance with the mitigation measures described in this EIS, any conditions of approval issued under the EMPC Act, the applicable Environmental Performance Requirements (EPRs) in the Commonwealth and Victorian combined EIS/Environment Effects Statement (EES) as well as any other permits or licences required for the proposal and the project, including the Environment Protection and Biodiversity Act 1999 (EPBC Act) and the OEI Act.

# A summary of the impacts of the proposal

## The key findings of the technical studies are summarised as follows:

- ◇ The launch pad site, which is on the site of the former tioxide plant, may encounter acid sulfate soils (ASS). These soils, should they be disturbed, would be managed to protect surface and groundwaters and to minimise the generation of odours during construction on the proposal site.
- ◇ The cable laying and burial technique may result in turbidity which could impact on marine values. However, due to the construction technique and composition of the seabed, turbidity would settle quickly and marine values are unlikely to be impacted.
- ◇ There is potential for additional roadkill of EPBC Act listed species, including the Tasmanian devil (*Sarcophilus harrisii*) and the Spotted-tailed quoll (*Dasyurus maculatus subsp. Maculatus*) due to construction generated traffic on surrounding roads. With the implementation of measures in accordance with *Tasmanian Devil Survey Guidelines and Management Advice for Development Proposals*, the impact significance is expected to be low.
- ◇ The proposal would not disturb native vegetation, with construction occurring on the previously cleared part of the proposal site and cable installation not changing the surface environment.
- ◇ There is potential for underwater noise from installation of the cables to impact on cetaceans which could result in hearing loss, behavioural impacts (such as migration, foraging, breeding and navigation) and auditory masking impacts (such as reduced ability to communicate or detect predators). However, this is unlikely to occur as cetaceans are expected to move away from noisy vessels.
- ◇ Lighting on vessels has the potential to impact on birds and marine fauna due to an increased risk of disorientation and collisions. Management of artificial light in adherence with *Commonwealth National Light Pollution Guidelines for Wildlife* would mean that birds are not affected by lighting during the short period of nighttime vessel activities in Tasmanian coastal waters.
- ◇ Lighting from onshore construction activities is not expected to impact terrestrial fauna as there will be minimal change from the existing artificial light associated with the Bass Highway.
- ◇ The HDD construction activity would occur 24 hours a day. For standard working hours, the predicted noise levels are below the adopted noise management level at existing residential receptor locations but show exceedances at future residential receptors within Devonshire Drive Hamlet (these are below the highly affected noise management level). There would be exceedances of the noise management levels at existing and future residential dwellings outside standard working hours. Reasonable and feasible measures will be applied to minimise potential impacts.
- ◇ The construction of the proposal has the potential to generate dust that may result in reduced public amenity due to dust soiling, human health effects due to elevated levels of particulate matter, and ecological effects due to deposition in aquatic ecosystems and water sources or on vegetation. Potential dust impacts would be managed using standard and best practice mitigation measures, and ongoing visual monitoring. With implementation of these measures, the impacts from the proposal on air quality are considered to be negligible and temporary.
- ◇ The proposal would not generate any detectable electric and magnetic fields (EMF). Similarly, and relatedly, any increased temperatures from the cables are not expected to affect the marine environment.
- ◇ The proposal may require vessels to divert around cable laying activities. This may present an inconvenience to other marine users however, safe transit around the temporary exclusion zones would be readily available.

- ◇ The construction of the proposal would create jobs. It is estimated that at peak project construction, the Tasmanian components of the project would generate 430 jobs per year in Tasmania. The proponent has developed strategies and would trigger training to make sure these jobs are available and attractive to locals, to women, to young people, and to the Tasmanian Aboriginal Community. There is an adverse risk, however, that the proposal would draw labour from other industries and businesses nearby, which may result in workforce shortages and longer lead times for other construction projects.
- ◇ The project, including the proposal, would create extra stresses on support services, local infrastructure, and rental accommodation, especially when considering the impacts of other projects in the region planned for the same construction period. The proposal would ameliorate some of those impacts by cable laying workers being accommodated on their vessel, providing primary response healthcare workers, and implementing policies to assist in addressing pressure on accommodation and other social infrastructure. These social impacts are considered the most challenging to mitigate and are considered to have a residual moderate effect on the people of Burnie City, Central Coast, and the broader region. Conversely, however, the project is expected to result in large financial benefits to Tasmania and may also provide potential benefits to the health and wellbeing of local residents through investments in community infrastructure.
- ◇ The social impact studies have indicated some ongoing concerns about amenity impacts from local people. Mitigation measures to manage air and noise impacts are addressed in Section 6. Measures regarding community notifications would be part of the community and stakeholder engagement plan.
- ◇ The construction of the proposal together with the Heybridge Converter Station, especially when combined with other projects within the same construction period, would increase traffic. However, this increase in traffic would predominantly be experienced on Bass Highway, which has the capacity to accommodate the anticipated traffic movements.

This EIS provides detailed information about the Heybridge Shore Crossing and an assessment of the proposal's potential impacts as required by the EIS guidelines. Avoidance of impacts has been maximised through selection of the site for the proposal and design of the infrastructure. Potential impacts of the proposal have then been assessed based on the proposed design and construction method. Where the impact assessment has identified the need to reduce impacts, mitigation measures have been developed and will be implemented to reduce impacts.

The proposal is consistent with Tasmanian policies, especially those that protect ecological values, the coastal environment, and human health. The investigations that have supported this EIS have been thorough, and the community can be reassured that the proposal can proceed knowing the extent of its impacts. MLPL would design, construct, operate and decommission the proposal under an Environmental Management System (EMS) that has been developed in accordance with the requirements of AS/NZS ISO 14001:2016 *Environmental Management Systems – Requirements with guidance for use*. The MLPL EMS has been developed to manage compliance of project approvals and legal requirements and seek continual improvement in environmental performance through planning, implementation, evaluation and review. The EMS applies to all geographic components and phases of the project, including the proposal.

# Next steps

The EIS and its appended technical studies were reviewed by the EPA and verified as being satisfactory for public comment.

This EIS will be on public exhibition for 42 days so that the community can view the documents and make written submissions. After submissions are received and considered, the EPA will further consider this EIS and the technical studies that support it. The EPA might require further information from the proponent or work to be done by technical specialists to respond to matters raised in the submissions before approvals may be granted for the proposal.

This EIS has been published alongside the Heybridge Converter Station EIS. A combined EIS/EES was prepared to address Commonwealth and Victorian government requirements and placed on public exhibition from 31 May – 12 July 2024.

The Tasmanian EIS documents, and the combined Commonwealth and Victorian EIS/EES, address the legislation and requirements of other jurisdictions and government agencies. Consequently, statements, findings, and commitments will not always or necessarily be the same across the assessment documents, including between this EIS and the combined EIS/EES.

## **The EIS can be accessed (in PDF format) at the Marinus Link website:**

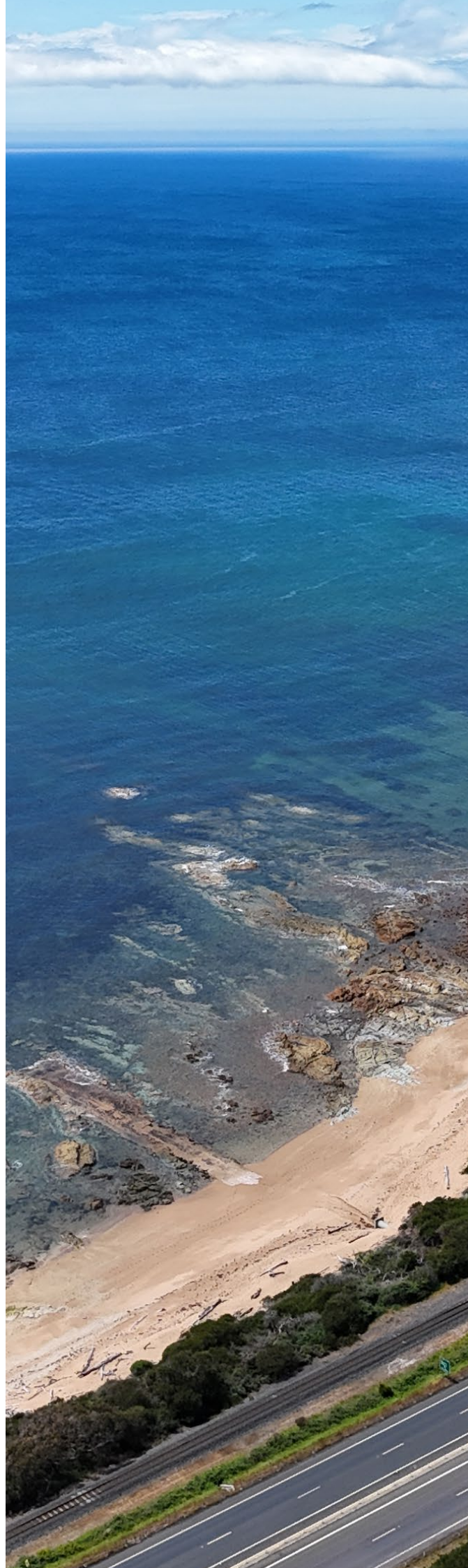
[marinuslink.com.au/assessment/tasmania-eis](https://marinuslink.com.au/assessment/tasmania-eis)

If you require access to the EIS in an alternative format, please email: [team@marinuslink.com.au](mailto:team@marinuslink.com.au)

## **Hard copies of this EIS can be viewed at Marinus Link offices:**

- ◇ **Level 1, 74 Elizabeth Street, Hobart, Tasmania 7000.**
- ◇ **1-3 Spring Street, Burnie, Tasmania 7320.**

**Submissions must be made in writing and addressed to the Chairperson, Board of the Environment Protection Authority**, and can be submitted through email; [enquiries@epa.tas.gov.au](mailto:enquiries@epa.tas.gov.au) or by post; **GPO Box 1550, Hobart, Tasmania 7001.**





## Contact us

Visit: [marinuslink.com.au](https://marinuslink.com.au)

Email: [team@marinuslink.com.au](mailto:team@marinuslink.com.au)

Call: [1300 765 275](tel:1300765275)

## Interpreter

If you require an interpreter,  
contact TIS National on 131 450  
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Marinus Link.

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