



A Guide to Applying for a Transmission Connection



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About this guide

We are committed to making the connection process as easy as possible for our customers. We have written this guide to help you understand what is involved in connecting to the network and who you can contact for support.

The connection process is governed by the National Electricity Rules (the **Rules**), which are amended from time to time. In the case of any inadvertent discrepancy between this guide and the Rules, the requirements of the Rules will apply.

This guide will also be updated from time to time, with updates published at <https://www.tasnetworks.com.au/transmission-connections>. Please refer to our website for the latest version.

Which connections does this guide apply to?

The Transmission Network includes any asset operating at or above 88kV (in Tasmania this is the 110kV and 220kV networks), as defined under the NER, but excludes associated connection assets. A Transmission Connection is therefore classified as a direct connection to our 110kV or 220kV assets.

If you are not sure which connection type you require, please contact us at transmission.connections@tasnetworks.com.au.

TasNetworks

TasNetworks develops, owns, operates and maintains Tasmania's regulated electricity transmission and distribution networks. Put simply, we're responsible for delivering power from Tasmania's generators and interconnectors (currently Basslink, and Marinus Link in the future) to almost every Tasmanian home and business. We also provide transmission connection services for major energy projects throughout the State.

Making it easy for you to connect

We are committed to providing you with a streamlined transmission connection application process and helping you navigate the connection requirements under the Rules. We can help you by:

- Meeting with you to discuss your project requirements and provide preliminary high-level information to facilitate your submission of a connection enquiry.
- Assigning you a connection manager to support you through the connection application process and tailor a connection solution that meets your needs, including technical and commercial considerations.



- Assigning you a customer account manager to provide continuity of support throughout the life of your connection.
- Updating you regularly on the status of your connection application.

We encourage you to get in contact with us early to discuss the connection process, timeframes and your potential options. A discussion during the pre-feasibility stage of your project could save you both time and money. All connection enquiries (formal or informal) are treated confidentially.

You can contact us at transmission.connections@tasnetworks.com.au.

The Tasmanian transmission system at a glance

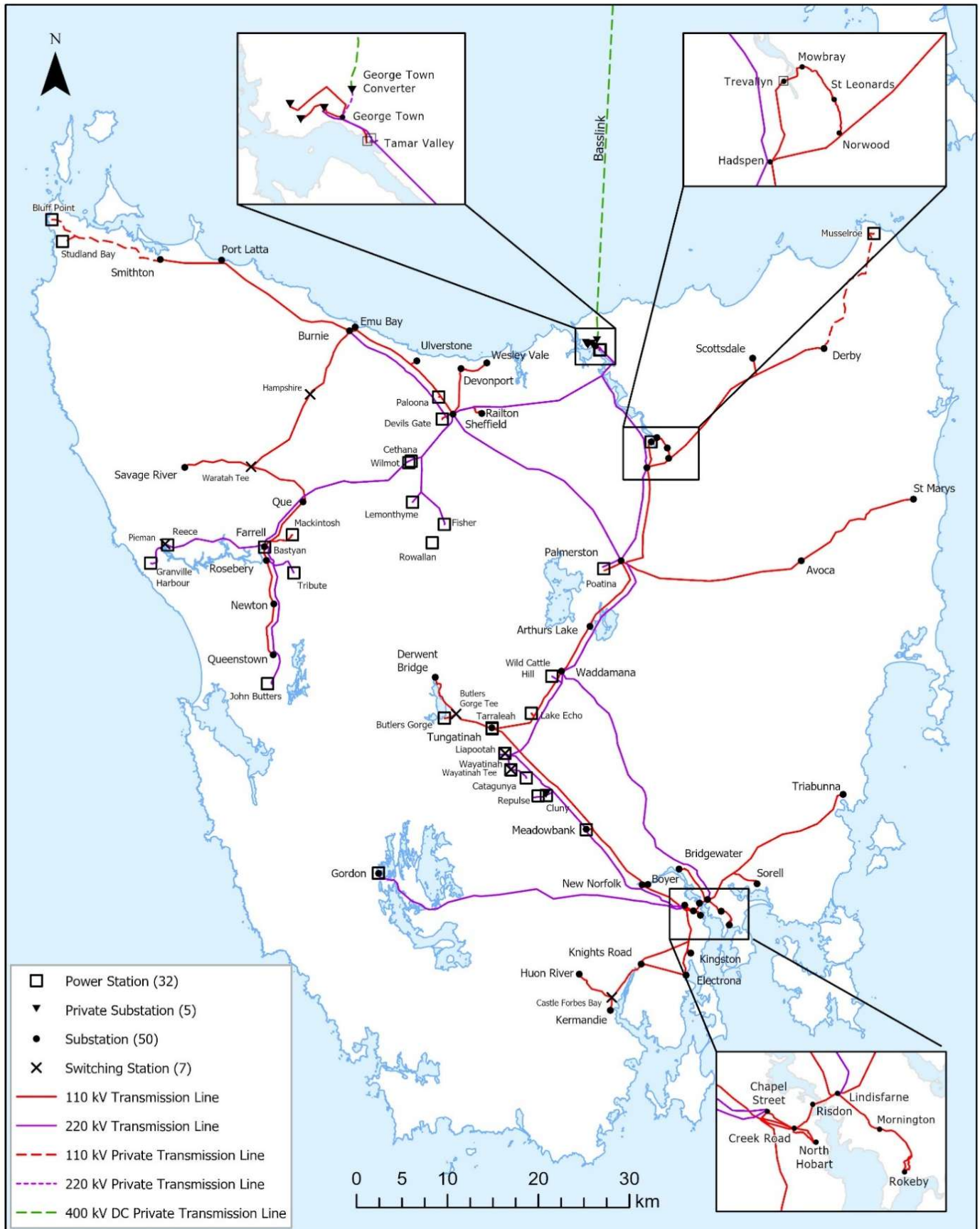
The Tasmanian power system is dynamic and unique compared to other regions of the National Energy Market. Generation dispatch, interconnector flow and system conditions can change significantly over a short period of time.

Tasmania is Australia's largest producer of renewable electricity, having achieved a world-leading 100 per cent self-sufficiency in renewable energy. While hydro-electric generation is a key part of the State's renewable energy mix, the proportion of the State's demand being met by wind and solar generation is continuing to grow. We are increasingly seeing events where greater than 80% of Tasmanian generation is coming from non-synchronous sources including wind. This creates a great opportunity for our customers to access green energy to power their operations through simply connecting to the grid. It also means both TasNetworks and new connection applicants have increasingly important roles to play in maintaining system strength and resilience.

As part of your project planning, we recommend you consider what support you may need to help you understand and meet your obligations under the Rules when connecting to the Tasmanian transmission system.

A map of the Tasmanian transmission network is included on the following page.





Connection process responsibilities

TasNetworks

As a Transmission Network Service Provider (**TNSP**), we manage the connection process and are the main point of contact for developers (connection applicants) wishing to connect their facilities to our transmission system. We are responsible for undertaking an independent technical due diligence of each connection application against the requirements of the Rules. We are required to assess the impacts of your connection on the network, including on other network users and generators. We will work with you to agree the performance standards that will apply to your connection, and to then ensure that those standards are achieved and maintained throughout the life of your project's development and operation.

Australian Energy Market Operator

The Australian Energy Market Operator (**AEMO**) also has a role in assessing and negotiating performance standards that could affect broader power system security. AEMO is also involved in assessing simulation models of power system plant and associated control systems, as well as commissioning and post-commissioning activities.

Connection applicants

As an intending connection applicant, you are responsible for ensuring that your connection complies with your obligations under the Rules and the terms of your connection agreements.

Connection process overview

The connection process has four key stages:

- Preliminary enquiry (also known as pre-feasibility or pre-enquiry)
- Enquiry
- Application
- Construction and completion

The process is governed by Chapter 5 of the Rules. Your connection manager will be available to help you navigate the process during each of these stages.

Preliminary enquiry or pre-feasibility

You are encouraged to contact TasNetworks during the pre-feasibility or feasibility stages of your project to begin discussing a connection. You will want to consider



factors such as location, size, network constraints, infrastructure requirements, loss factors, and competing or dependent projects.

We can assist by providing you with information about the connection process and our network, including an early indication on the connection considerations at your proposed location. While more detailed investigation will be required at later stages, we may be able to highlight any potential issues that may affect your ability to connect to the network.

We would be happy to discuss aspects including:

- the Rules requirements that will apply to your connection
- the size, type and location of the proposed connection
- the suitability of the location for the proposed connection
- potential network or physical constraints
- the requirement for runback schemes or inter-trips to facilitate the proposed connection

Connection Enquiry

Connection enquiry

When you submit your connection enquiry, we check it for completeness. We will advise you within **5 working days** whether we have all the information we need to process your enquiry.

Once we have your complete application, we will provide you with a response to your enquiry within **30 working days** (or 40 working days for Designated Network Assets).

The first formal step of the Rules process is to submit a connection enquiry with key data about the proposed facility and its electrical attributes.

What information do you need to provide?

We will need information about your project, including:

- proposed location(s) and voltage of the connection
- size (in MW) of the proposed connection, including known future stages, indicative power factor and expected energy consumption and/or generation (MWh per month)
- general plant information
- intended timing of construction and commercial operation.

The connection enquiry form details all the information we need, and can be found on our website: <https://www.tasnetworks.com.au/transmission-connections>.



What will you receive in our connection enquiry response?

We will respond within 30 working days with a response that includes:

- high-level information about the works required to facilitate your connection, including which components must be performed by TasNetworks and which are non-regulated (contestable)
- technical specifications of the interface with the shared transmission network required to provide your connection
- a preliminary impact assessment, including capacity, network constraints and relevant performance standards
- a preliminary program showing proposed milestones for connection activities
- an estimate of the connection application fee.

This enquiry response is based on our preliminary assessment. We will need to carry out more detailed technical reviews during the application stage.

In some circumstances, you may also need to enter into an agreement with TasNetworks during the connection enquiry stage. For example, if you require access to certain network information, we may ask you to sign a non-disclosure agreement before the information is provided.

National Electricity Rules references

Section 5.3.2 of the Rules applies to the Enquiry stage above.

Connection application

Following our connection enquiry response to you, the next formal step in the connection process is for you to submit a connection application.

What information do you need to provide?

Your application must include:

- information about the detailed design of your plant;
- connection studies demonstrating how the connecting plant meets the applicable performance standards;
- if you wish to propose something less than the automatic access standard, supporting information demonstrating that the proposed performance standard is appropriate; and
- payment of the connection application fee.

There are checklists to help you prepare your application.

For load connections, see TasNetworks' Connection Application Checklist on our website: <https://www.tasnetworks.com.au/Documents/Manual-documents/Transmission/Connection-Requirements-Checklist>



For generator connections, see AEMO's Generator Connection Application Checklist on AEMO's website: https://aemo.com.au/-/media/files/electricity/nem/network_connections/stage-3/connection-application-checklist.pdf

Detailed network information, power system models and modelling user guides can be obtained from AEMO in accordance with Chapter 3 of the Rules. AEMO's modelling requirements can be found at: <https://aemo.com.au/en/energy-systems/electricity/national-electricity-market-nem/participate-in-the-market/network-connections/modelling-requirements>. When obtaining this information from AEMO, you should also contact us to request TasNetworks' associated models. Any modelling data you submit as part of your connection application must use TasNetworks' models.

Connection application timeframes

Your preliminary program will include an indicative timeframe for making the offer to connect. In order to meet this timeframe, we will need to receive your complete modelling, demonstrating compliance with applicable performance standards.

The actual time to process your application and provide an offer to connect will depend on the quality and completeness of your connection application. In addition, if you will be seeking to negotiate the access standards to apply to your connection (rather than meeting the automatic access standards) or any other terms of your offer to connect, extra time may be required.

Connection application assessment

Once we have received your application, we will undertake our due diligence review of the connection application and work with you to agree any negotiated access standards.

We will consult with AEMO about any negotiated standards that are AEMO advisory matters and any proposed system strength remediation (if applicable). Once TasNetworks and AEMO have both confirmed that the facility will be able to meet performance requirements, AEMO will respond to TasNetworks according to sections 5.3.4A and 5.3.4B of the Rules.

Consideration of other projects

Be aware that other projects that become 'committed' during the course of your connection process may have an impact on your connection application.

The Rules do not contain any 'queuing' arrangements for concurrent connection enquiries or applications. This means there may be concurrent projects progressing through the connection process, and at a certain point, a project may become 'committed', at which point other projects need to start taking the 'committed' project into account (including in their connection studies).



For example, for load connections, the available network capacity in an area may reduce because it has subsequently been taken up by other connecting parties. This could increase the timeframes and costs associated with your connection. The Rules do not allow TasNetworks to reserve capacity for customers during the connection application process.

For generators, the likelihood of dispatch constraints may be increased due to other generators connecting. In addition, 'committed projects' need to be taken into consideration by generators when assessing system strength impacts. To help manage this, TasNetworks is required to report key connection information about generator projects to AEMO. This is published on AEMO's website: <https://aemo.com.au/en/energy-systems/electricity/national-electricity-market-nem/nem-forecasting-and-planning/forecasting-and-planning-data/generation-information>.

Appendix 1 provides more information about when a development will be considered a 'committed project'. This is different for load and generation connections.

Offer to connect and connection agreements

Once TasNetworks and AEMO are satisfied that performance standards can be met, connection agreements can be signed.

There will generally be two contract documents that will form part of our offer to connect: an Asset Development Agreement and a Connection Agreement. When we issue the final agreements, we will let you know the validity period for entering into the agreements, after which they expire. If not accepted within the validity period, a connection applicant can re-request the offer to be made.

National Electricity Rules references

Sections 5.3.4, 5.3.4A, 5.3.4B and 5.3.7, schedule 5.2 (for generation customers), schedule 5.3 (for load customers) and schedule 5.3a (for Market Network Service Providers) of the Rules apply to the Application stage above.

Construction and completion

Once agreements are in place and any conditions precedent have been satisfied, TasNetworks will start construction and installation of any works required to facilitate your connection.

The Rules require you to provide both TasNetworks and AEMO with written notice at least three months before undertaking any commissioning and compliance testing of new or replacement equipment. You will need to liaise with TasNetworks and AEMO to develop a procedure for commissioning your connection and facility. TasNetworks and AEMO will provide feedback as required. TasNetworks' preference is to witness



all commissioning and compliance testing, and to be involved with the testing as much as is practical.

Commissioning must not begin until the commissioning program has been finalised and both TasNetworks and AEMO have agreed to it.

Construction and commissioning indicative timeframes

Construction and commissioning of the assets required to establish your connection could take anywhere from **2 to 24 months**,

National Electricity Rules references

Sections 5.8.2 and 5.8.4 of the Rules apply to the construction and completion stage above.



Appendix 1: Committed projects

Treatment of concurrent projects

TasNetworks' experience has shown that different projects will advance through the connection process at different rates, and this is strongly influenced by the quality and completeness of each submission.

Throughout the process, TasNetworks will treat all concurrent connection enquiries and applications on their individual merits in accordance with the processes set out in Chapter 5 of the Rules.

Should a proposed project reach '*committed project*' status, it may be necessary for TasNetworks to take account of that project in any concurrent technical assessments of other projects. This may also include having to recommence assessments which are partially complete, as the presence of the *committed project* may change the technical requirements applying to other subsequent connections. TasNetworks and AEMO may require that the connection applicant's connection studies be repeated to include the newly committed project and the connection application be resubmitted. TasNetworks may be required to review the technical requirements for the connection to take account of changed circumstances or regulatory changes.



When a project will become committed

Load connections

For connections of load to TasNetworks' transmission network, becoming '*committed*' relates to the stage at which there is a firm commitment between TasNetworks and the connection applicant regarding the connection. This also defines the point at which there is a firm commitment to available network capacity. TasNetworks considers this to have occurred once the following criteria have been met:

Load customer connections: committed project definition	
Criteria	Description
Site	The applicant has firm rights to the land (for example, purchased, settled, acquired, legal right to acquire, lease) on which the project will be constructed.
Connection application	The applicant has submitted a complete connection application to TasNetworks.
Suppliers	The applicant has selected suppliers of major plant or equipment components, nominated primary plant, and provided associated models to TasNetworks.
Planning and approvals	<p>The applicant has obtained all required planning and construction consents able to be obtained during this development period (principally, a development application approval). This does not include consents and approvals required immediately prior to, or after, construction has begun (for example, a building permit).</p> <p>Performance standards for the facility (which ultimately require approval by TasNetworks and AEMO) have progressed to a stage where there are no material issues preventing connection, as determined by TasNetworks acting reasonably.</p>
Commitment to proceed	<p>The applicant and TasNetworks have each obtained Board approvals for the connection.</p> <p>TasNetworks and the applicant have signed an Asset Development Agreement and Connection Agreement.</p> <p>All applicant-controlled conditions precedent of the Asset Development Agreement have been satisfied within the nominated timeframe.</p>
Finance	The applicant has achieved a positive investment decision, with written confirmation provided on behalf of the applicant and any financiers.



Generator connections

For generators, AEMO sets out the requirements for conducting system studies, including the stage at which other developing projects must be taken into account. See the definition of 'committed project' in AEMO's 'System Strength Impact Assessment Guidelines'. AEMO also has a definition of '*committed project*' in its 'Generation Information Guidelines', which relates to publication of project data.

These documents are available on AEMO's website:

- AEMO's System Strength Impact Assessment Guidelines: https://aemo.com.au/-/media/Files/Electricity/NEM/Security_and_Reliability/System-Security-Market-Frameworks-Review/2018/System_Strength_Impact_Assessment_Guidelines_PUBLISHED.pdf
- AEMO's Generation Information Guidelines: https://aemo.com.au/-/media/files/electricity/nem/planning_and_forecasting/generation_information/2020/final-generation-information-guidelines.pdf

