

Recently commissioned and committed network developments

- 8.1 Introduction
- 8.2 Connection works
- 8.3 Network developments
- 8.4 Network reinvestments
- 8.5 Uncommitted Regulatory Investment Test for
Transmission projects
- 8.6 Asset retirement works

08. Recently commissioned and committed network developments

This chapter provides information on the status of customer connection works and transmission network projects since publication of the 2024 Transmission Annual Planning Report (TAPR). It presents a snapshot of recently commissioned projects and projects that are committed or awaiting commencement since completion of the Regulatory Investment Test for Transmission (RIT-T), as well as the status of asset retirement works.

Key highlights

- During 2024/25, Powerlink's delivery efforts remained predominantly directed towards connecting generation and reinvestment in transmission lines and substations across Powerlink's network.
- Powerlink's regulated investment program focuses on reducing the identified risks arising from assets reaching the end of technical service life and maintaining network resilience, while continuing to deliver safe, reliable and cost-effective transmission services to our customers.
- Powerlink has completed one augmentation and four reinvestment projects since the publication of the 2024 TAPR.
- Powerlink continues to support the development of all types of energy projects requiring connection to the transmission network in Queensland.
- Since the publication of the 2024 TAPR, two connection projects have been completed enabling an additional 632 megawatts (MW) of generation.
- Additionally, four Battery Energy Storage System (BESS) connections have been completed since publication of the 2024 TAPR.

8.1 Introduction

For all proposed network augmentations and replacements of network assets, the National Electricity Rules (NER):

- requires the TAPR to detail the month and year the project/asset will become operational
- notes that the level of detail should be sufficient, relative to the size or significance of the project¹.

A geographic representation of Powerlink's transmission network is shown in Figure 8.1 at the end of this chapter.

The status of projects reported in this chapter is as at 30 September 2025.

8.2 Connection works

Table 8.1 lists connection works commissioned since Powerlink's 2024 TAPR was published.

Table 8.1 Commissioned connection works since October 2024

Project (1) (2)	Purpose	Zone	Date commissioned (3)
Aldoga Solar Farm	New Solar Farm	Gladstone	Quarter 4 2024/25
Ulinda Park BESS	New BESS	South West	Quarter 4 2024/25
Wambo Wind Farm Stage 1 (2)	New Wind Farm	South West	Quarter 3 2024/25
Tarong BESS	New BESS	South West	Quarter 1 2025/26
Brendale BESS	New BESS	Moreton	Quarter 1 2025/26
Greenbank BESS	New BESS	Moreton	Quarter 3 2024/25

Notes:

- (1) When Powerlink constructs a new line or substation as a non-regulated customer connection (e.g. generator, renewable generator, mine or industrial development), the costs of acquiring easements, constructing and operating the transmission line and/or substation are paid for by the company making the connection request.
- (2) Powerlink has completed the scope of works for this project. Remaining works associated with generation connection are being coordinated with the customer.
- (3) Commissioning dates reflect the financial year quarter in which they occurred.
- (4) Refer to Table 6.1 for information on the available MW capacity of generators connected or committed to be connected to Powerlink's transmission network.

¹ National Electricity Rules, clause 5.12.2(c)(5)(i).

08. Recently commissioned and committed network developments

Table 8.2 lists new transmission connection works for generating systems that are committed and under construction as at October 2025. These connection projects resulted from agreements reached with relevant connected customers, generators or Distribution Network Service Providers (DNSPs) as applicable.

Table 8.2 Committed and under construction connection works as at October 2025

Project (1) (2)	Purpose	Zone	Proposed commissioning date (3)
Kidston Pumped Storage Hydro	New pumped hydro energy storage	Ross	Quarter 2 2025/26
Broadsound Solar Farm	New Solar Farm	Central West	Quarter 2 2025/26
Lotus Creek Wind Farm	New Wind Farm	Central West	Quarter 1 2026/27
Boulder Creek Wind Farm	New Wind Farm	Central West	Quarter 4 2026/27
Woollooga BESS	New BESS	Wide Bay	Quarter 3 2025/26
Punchs Creek Solar Farm	New Solar Farm	Bulli	Quarter 4 2026/27
Wambo Wind Farm Stage 2	Expansion of Wind Farm	South West	Quarter 3 2025/26
Supernode (South Pine) BESS	New BESS (4)	Moreton	Quarter 3 2025/26
Swanbank BESS	New BESS	Moreton	Quarter 2 2025/26

Notes:

- (1) When Powerlink constructs a new line or substation as a non-regulated customer connection (e.g. generator, renewable generator, industrial development or mine), the costs of acquiring easements, constructing and operating the transmission line and/or substation are paid for by the company making the connection request.
- (2) Refer to Table 6.1 for information on the available MW capacity of generators connected or committed to be connected to Powerlink's transmission network.
- (3) Proposed commissioning dates reflect the financial year quarter in which projects are anticipated to be commissioned at the time of the 2025 TAPR publication.
- (4) Powerlink's scope of works for Supernode 1 has been completed. Remaining works associated with generation connection are being coordinated with the customer. Supernode 2 is under construction at the time of 2025 TAPR publication.

8.3 Network Developments

Table 8.3 lists network developments that have been commissioned since October 2024.

Table 8.3 Commissioned network developments since October 2024

Project	Purpose	Zone	Date commissioned
Belmont 275kV bus reactor	Maintain voltages in the Moreton zone	Moreton	November 2024

Table 8.4 list network developments that are committed and under construction at October 2025.

Table 8.4 Committed network developments as at October 2025

Project	Purpose	Zone	Proposed commissioning date
Establishment of a 3rd 275kV connection into Woree	Maintain supply reliability in the Far North zone	Far North	December 2025 (1)

Note:

- (1) The 275kV feeder between Woree, Ross and Tully South substations was commissioned in September 2024. The completion of remaining minor works is expected by December 2025.

08. Recently commissioned and committed network developments

8.4 Network Reinvestments

Table 8.5 lists network reinvestments commissioned since Powerlink’s 2024 TAPR was published.

Table 8.5 Commissioned network reinvestments since October 2024

Project	Purpose	Zone	Date commissioned
Woree SVC secondary systems replacement	Maintain supply reliability in the Far North zone	Far North	March 2025
Ross 275/132kV transformers life extension	Maintain supply reliability in the Ross zone	Ross	November 2024
Kemmis secondary systems replacement	Maintain supply reliability in the North zone	North	December 2024
Mudgeeraba 275kV secondary systems replacement	Maintain supply reliability in the Gold Coast zone	Gold Coast	December 2024

Table 8.6 lists network reinvestments which are committed as at October 2025.

08. Recently commissioned and committed network developments

Table 8.6 Committed network reinvestments as at October 2025

Project	Purpose	Zone	Proposed commissioning date
Woree secondary systems replacement	Maintain supply reliability in the Far North zone	Far North	December 2025
Chalumbin secondary systems replacement	Maintain supply reliability in the Far North zone	Far North	December 2025
Cairns secondary systems replacement	Maintain supply reliability in the Far North zone	Far North	December 2025
Line refit works on the 275kV transmission lines between Chalumbin and Woree substations (section between Davies Creek and Bayview Heights)	Maintain supply reliability to the Far North and Ross zones (1)	Far North	January 2026
Innisfail 132kV secondary systems replacement	Maintain supply reliability in the Far North zone	Far North	June 2027
Line refit works on the 132kV transmission line between Townsville South and Clare South substations	Maintain supply reliability in the Ross zone	Ross	March 2026
Garbutt configuration change	Maintain supply reliability in the Ross zone	Ross	January 2026
Townsville South secondary systems replacement Stage 1	Maintain supply reliability in the Ross zone	Ross	February 2026
Townsville South 132kV primary plant replacement	Maintain supply reliability in the Ross zone	Ross	July 2026
Ross 132kV primary plant replacement	Maintain supply reliability in the Ross zone	Ross	December 2025
Ross 275kV primary plant replacement	Maintain supply reliability in the Ross zone	Ross	March 2026
Nebo 132/11kV transformers replacement	Maintain supply reliability in the North zone	North	December 2025
Line refit works on the 132kV transmission line between Eton tee and Alligator Creek substations	Maintain supply reliability in the North zone (1)	North	December 2025
Newlands 132kV primary plant replacement	Maintain supply reliability in the North zone	North	December 2026
Dysart 132/66kV transformers replacement	Maintain supply reliability in the Central West zone (1)	Central West	October 2026
Blackwater 66kV CT and VT replacement	Maintain supply reliability in the Central West zone	Central West	August 2026
Blackwater 132/66kV transformers replacement	Maintain supply reliability in the Central West zone	Central West	October 2027
Lilyvale 275kV and 132kV primary plant replacement	Maintain supply reliability in the Central West zone	Central West	June 2026
Egans Hill secondary systems replacement	Maintain supply reliability in the Central West zone	Central West	August 2026
Gladstone South secondary systems replacement	Maintain supply reliability in the Gladstone zone	Gladstone	February 2027
QAL West secondary systems replacement	Maintain supply reliability in the Gladstone zone	Gladstone	February 2027
Tangkam 110kV secondary systems replacement	Maintain supply reliability in the South West zone	South West	September 2026
Sumner 110kV secondary systems replacement	Maintain supply reliability in the Moreton zone	Moreton	September 2026
Belmont 11kV underground cable and transformers replacement	Maintain supply reliability in the Moreton zone	Moreton	September 2026

08. Recently commissioned and committed network developments

Table 8.6 Committed network reinvestments as at October 2025 (*continued*)

Project	Purpose	Zone	Proposed commissioning date
Redbank Plains 110/11kV transformers and selected primary plant replacement	Maintain supply reliability in the Moreton zone	Moreton	October 2026
Mt England 275kV secondary systems replacement	Maintain supply reliability in the Moreton zone	Moreton	December 2026

Note:

- (1) Project identified under the RIT-T transitional arrangements in place for committed projects between 18 September 2017 and 30 January 2018.

8.5 Uncommitted Regulatory Investment Test for Transmission projects

Table 8.7 lists network investments which have undergone the Regulatory Investment Test for Transmission (RIT-T) and are not fully committed as at October 2025.

Table 8.7 Uncommitted network investments as at October 2025

Project	Purpose	Zone	Proposed commissioning date
Kemmis 132/66kV transformer replacement	Maintain supply reliability in the North zone (1)	North	November 2026
Central Queensland synchronous condensers	Maintain supply reliability in the Gladstone and Central West zones (2)	Gladstone	March 2029
Tarong 275/66kV transformers and selected primary plant replacement	Maintain supply reliability in the South West zone (1)	South West	June 2028
Chinchilla 132kV primary plant and secondary systems replacement	Maintain supply reliability in the South West zone (1)	South West	June 2027

Notes:

- (1) Capital expenditure in relation to network asset replacement.
 (2) Capital expenditure in relation to system services.

8.6 Asset Retirement Works

There were no asset retirements that were completed since the publication of the 2024 TAPR.

Table 8.8 lists asset retirement works as at October 2025.

Table 8.8 Asset retirement works as at October 2025 (1)

Project	Purpose	Zone	Proposed retirement date
132kV transmission line retirement between Woree and Kamerunga substations	Removal of asset at the end of technical life	Far North	June 2032
Cairns 132/22kV Transformer 4 retirement	Removal of asset at the end of technical life	Far North	December 2027
132kV transmission line retirement between Townsville South and Clare South substations	Removal of assets at the end of technical life	Ross	June 2029
Lilyvale 132/66kV transformer retirement	Removal of asset at the end of technical life	Central West	June 2026
Tarong 275/132kV transformers retirement	Removal of assets at the end of technical life	South West	August 2026

Note:

- (1) Operational works, such as asset retirements, do not form part of Powerlink's capital expenditure budget.

08. Recently commissioned and committed network developments

Figure 8.1 Existing Powerlink Queensland transmission network as at October 2025

