January 2026

Powerlink 2027-32 Revenue Proposal

Project Pack

CVT Replacement Programme

Project Status: Unapproved

Network Requirement

Powerlink's network is experiencing a high rate of failure of both 275kV and 132/110kV capacitive voltage transformers (CVT) from a particular manufacturer (CVT subset). Only around 60% of the originally installed fleet of the CVT subset is still in service, the rest having failed well before their nominal 40 year service life. In service failure of a CVT leads to unplanned outages of network elements that place reliability of supply to customers at risk. It is also highly disruptive to planned network maintenance and asset replacement projects as resources have to be redeployed to quickly replace the failed CVT, which increases costs [1].

Many of the CVT units in service are form part of a revenue metering installation. As the Metering Coordinator and the Metering provider for these installations Powerlink has additional responsibilities to ensure the proper functioning of the metering installations. Clause 7.8.10 of the National Electricity Rules (NER) requires that where a metering installation malfunction occurs, such as the in-service failure of a CVT that forms part of the metering installation, Powerlink must ensure repairs are undertaken as soon as practicable but no later than two business days after the failure.

The correlation between time in service and likelihood of failure presents a risk to network reliability and operational stability, increasing the probability of unplanned outages and increasing pressure on Powerlink's ability to comply with metering installation requirements.

Powerlink must therefore take action to:

- avoid the increasing likelihood of unserved energy arising from failures of the CVT subset in Queensland; and
- avoid network and load interruptions due to loss of critical revenue metering, power system monitoring, telemetry, and protection system performance functions associated with failures of the CVT subset.

As the identified need for the proposed investment is to meet reliability and service standards specified within Powerlink's Transmission Authority, guidelines and standards published by the Australian Energy Market Operator (AEMO), and Powerlink's ongoing compliance with the NER, it is classified as a reliability corrective action under the NER.

Recommended Option

As this programme of work is currently 'Unapproved', project need and options will be subjected to the public RIT-T consultation process to identify the preferred option closer to the time of investment. The objective is to address the consequences of premature failure of the CVT subset.

The current recommended option involves replacement of identified units in the CVT subset where there is a high consequence of failure, primarily related to metering installations.

Options considered but not proposed include:

- Do Nothing – rejected due to inability to effectively manage metering installation compliance obligations;
- Replacement of all the CVT subset population – expected to be greater overall cost; and
- Non-network option – no viable non-network options have been identified at this time.

Powerlink does not consider non-network options are likely to be able to meet the identified need to address the risk of the CVT subset premature failures on Powerlink's network. A non-network solution would be unable to fully replicate the functionality that CVTs provide in the operation of the transmission network.

Cost and Timing

The estimated cost and timing to replace the identified subset of CVTs in different geographical areas and voltage levels is set out in Table 1 below:

Geographical area	**Voltage**	Estimated cost (Real, 2025/26)	Target commissioning date
Southern Queensland (Phase 1)	110/132/275kV	$5.7 million [2]	December 2028 [2]
Southern Queensland (Phase 3)	275kV	$4.1 million[1] [3]	June 2029 [3]
Central / North Queensland (Phase 4)	132kV	$1.8 million [3]	December 2027 [3]

Notes:

1. Adjusted to reflect the proportion of the project cost that relates to prescribed services assets.

Documents in CVT Replacement Programme Project Pack

Public Documents

1. CP.02984 CVT Replacement – South Phase 1 – Project Scope Report
2. CP.02984 CVT Replacement – South Phase 1 – Project Management Plan
3. *Documents available to AER on request*

Project Scope Report

CP.02984

CVT Replacement – South Phase 1

Proposal – Version 3

Document Control

Change Record

Issue Date	Revision	Prepared by	Reviewed by	Approved by	Background
2/04/24	1	[redacted]	[redacted]	[redacted]	Initial issue
4/10/24	2	[redacted]	[redacted]	[redacted]	Remove 132kV CVTs not used for metering and sites with no at risk CTs
18/03/25	3	[redacted]	[redacted]	[redacted]	Rescoped in line with updated strategy to reduce the overall number of planned replacements

Related Documents

Issue Date	Responsible Person	Objective Document Name
25/09/24	[redacted]	PIF Statewide CVT Replacement Phase 1 (A5212964)

Document Purpose

The purpose of this Project Scope Report is to define the business (functional) requirements that the project is intended to deliver. These functional requirements are subject to Powerlink's design and construction standards and prevailing asset strategies, which will be detailed in documentation produced during the detailed scoping and estimating undertaken by DTS (or OSD), i.e. it is not intended for this document to provide a detailed scope of works that is directly suitable for estimating.

Project Contacts

Project Sponsor	[redacted]
Strategist – HV/Digital Asset Strategies	[redacted]
Connection & Development Manager	[redacted]
Manager Projects	[redacted]
Project Manager	TBA
Design Manager	TBA

Project Details

1. Project Need & Objective

Powerlink's fleet of CVTs from a particular manufacturer (CVT subset) have had a high rate of premature failure with only around 60% of installed equipment still in service. Due to this high failure rate and the difficulty of managing network risks under unplanned outages, it is recommended that all high consequence of failure CVTs within the CVT subset are replaced.

Due to the large number of CVTs prone to a high consequence of failure, works have been split into separate projects based on region and voltage level. The first rollout of projects are as follows:

- CP.02984 CVT Replacement – South Phase 1
- CP.02986 CVT Replacement – South Phase 3
- CP.02987 CVT Replacement – Central North Phase 4

The objective of this project is to replace selected 110/132kV CVTs in the southern region by December 2028.

This project will follow the two (2) stage approval process.

2. Project Drawing

Not applicable

3. Deliverables

The following deliverables must be provided in response to this Project Scope Report:

1. A report (e.g. Project Proposal) detailing the works to be delivered, proposed staging of delivery, resource requirements and confirmation of availability, and outage requirements
2. A class 3 estimate (minimum), based upon published design advices detailing key design elements

   Direct costs for each substation shall be captured separately under the WBS structure to facilitate capitalisation of costs on a site by site basis.
3. A basis of estimate document and risk table, detailing the key estimating assumptions and delivery risks
4. A detailed project staging and outage plan that includes primary plant, secondary systems and telecoms outages
5. As this project will follow the two (2) stage approval process, provide a separate estimate for stage 2 development phase costs which include project planning, design and preliminary works. Also provide the schedule and time information to align with 2-stage approval.

4. Project Scope

4.1. Original Scope

The following scope presents a functional overview of the desired outcomes of the project. The proposed solution presented in the estimate must be developed with reference to the remaining sections of this Project Scope Report, in particular *Section 7 Special Considerations*.

Briefly, the project consists of replacing 42 CVTs at five sites in the southern region. The sites included in the scope of this project include:

Substation/Voltage	Number of CVTs
H003 Belmont	**18**
110	15
275	3
H022 Loganlea	**6**
110	6
H016 Rocklea	**6**
110	6
T160 Sumner	**6**
110	6
H063 Teebar Creek	**6**
132	6
Grand Total	**42**

4.1.1. Transmission Line Works

Not applicable.

4.1.2. Substation Works

Design, procure, construct and commission replacement CVTs for the existing CVTs listed in Attachment 1. Within the scope of work:

- Design, procure, install, test and commission suitably rated replacement CVTs;
- Replace or modify the existing structures and foundations as required;
- Modify secondary cabling and monitoring systems as required;
- Where the existing CVTs are used in revenue metering schemes, ensure a complaint metering installation in accordance with Powerlink and AEMO revenue metering guidelines;
- Remove obsolete line traps; and
- Decommission and dispose of the redundant equipment, and update drawing records, SAP records, config files, etc. accordingly.

4.1.3. Telecoms Works

Not applicable

4.1.4. Easement/Land Acquisition & Permits Works

Not applicable

4.2. Key Scope Assumptions

Not applicable

4.3. Variations to Scope (post project approval)

Not applicable

5. Key Asset Risks

From an asset risk perspective, priority is to be given to CVTs utilised for metering purposes as these carry a higher network risk (there is no explosive failure risk associated with the at risk CVTs). CVTs used for metering are priority 1 and 275kV CVTs not used for metering are priority 2 as noted in Attachment 1.

In general, consideration should be given to asset priority, in conjunction with other aspects such as related projects, remote end coordination, outage availability, resources etc, to determine the optimal delivery strategy and staging that minimises outage and resource requirements whilst appropriately addressing asset risk.

Asset risk management shall be in accordance with the Asset Risk Management Process Guideline (A4870713).

6. Project Timing

6.1. Stage 1 Approval Date

This project will follow the two stage approval process. The anticipated date for Stage 1 approval is October 2025.

6.2. Site Access Date

All sites are operational Powerlink substations and therefore access is already available.

6.3. Commissioning Date

The latest date for the commissioning of the new assets included in this scope and the decommissioning and removal of redundant assets, is 31 December 2028.

The project team is to assess the earliest possible delivery date for these works as part of the Project Proposal and provide a schedule of key milestones and funding requirements to meet this date. The project team are to advise the Sponsor as soon as possible if preapproval funding is required to procure long lead time equipment before completion of the estimate to meet the proposed commissioning date.

7. Special Considerations

- Review the CVT loading requirement where the CVTs are required to physically support line traps, ensuring compliance with manufacturer specifications and product warranty;

- Further consideration may be given to asset priority in conjunction with coordination opportunities such as related projects, remote end coordination, outage availability, resources etc, to determine the optimal delivery strategy and staging that minimises outage and resource requirements whilst appropriately addressing asset risk.

8. Asset Management Requirements

Equipment shall be in accordance with Powerlink equipment strategies.

Unless otherwise advised Sarah Gilmour will be the Project Sponsor for this project. The Project Sponsor must be included in any discussions with any other areas of Network and Business Development including Asset Strategies & Planning.

Jay Tencate will provide the primary customer interface Energy Queensland. The Project Sponsor should be kept informed of any discussions with the customer.

9. Asset Ownership

The works detailed in this project will be Powerlink Queensland assets.

10. System Operation Issues

Operational issues that should be considered as part of the scope and estimate include:

- impact of Restricted Access Zones currently in place for all at risk CTs;
- interaction of project outage plan with other outage requirements;
- likely impact of project outages upon grid support arrangements; and
- likely impact of project outages upon the optical fibre network.

11. Options

Not applicable

12. Division of Responsibilities

Not applicable

13. Related Projects

Project No.	Project Description	Planned Comm Date	Comment
Other Related Projects			
CP.02929	T160 Sumner Secondary Systems Replacement	2026	Execution
CP.02986	CVT Replacement - South Phase 3	2029	Definition
CP.02987	CVT Replacement - Central North Phase 4	2027	Definition

Attachment 1: List of CVTs to be replaced under CP.02984

Site	Name	Bay	Functional location	Equipment	Metering Type	Voltage	Priority
H003	Belmont	H003-C07-830-	H003-C07-830--1VTA	20042673	None	275	2
H003	Belmont	H003-C07-830-	H003-C07-830--1VTB	20042674	None	275	2
H003	Belmont	H003-C07-830-	H003-C07-830--1VTC	20042675	None	275	2
H003	Belmont	H003-D32-766-	H003-D32-766--33VTA	20058392	TYPE 2	110	1
H003	Belmont	H003-D32-766-	H003-D32-766--33VTB	20058393	TYPE 2	110	1
H003	Belmont	H003-D32-766-	H003-D32-766--33VTC	20058394	TYPE 2	110	1
H003	Belmont	H003-D35-767-	H003-D35-767--34VTA	20058395	TYPE 2	110	1
H003	Belmont	H003-D35-767-	H003-D35-767--34VTB	20058396	TYPE 2	110	1
H003	Belmont	H003-D35-767-	H003-D35-767--34VTC	20058397	TYPE 2	110	1
H003	Belmont	H003-D38-750-	H003-D38-750--36VTA	20058401	TYPE 2	110	1
H003	Belmont	H003-D38-750-	H003-D38-750--36VTB	20058402	TYPE 2	110	1
H003	Belmont	H003-D38-750-	H003-D38-750--36VTC	20058403	TYPE 2	110	1
H003	Belmont	H003-D55-7287	H003-D55-7287-43VTA	20058415	TYPE 1	110	1
H003	Belmont	H003-D55-7287	H003-D55-7287-43VTB	20058416	TYPE 1	110	1
H003	Belmont	H003-D55-7287	H003-D55-7287-43VTC	20058417	TYPE 1	110	1
H003	Belmont	H003-D56-7288	H003-D56-7288-44VTA	20066207	TYPE 1	110	1
H003	Belmont	H003-D56-7288	H003-D56-7288-44VTB	20066208	TYPE 1	110	1
H003	Belmont	H003-D56-7288	H003-D56-7288-44VTC	20066209	TYPE 1	110	1
H016	Rocklea	H016-D03-7818	H016-D03-7818-17VTA	20049589	TYPE 2	110	1
H016	Rocklea	H016-D03-7818	H016-D03-7818-17VTB	20049591	TYPE 2	110	1
H016	Rocklea	H016-D03-7818	H016-D03-7818-17VTC	20049590	TYPE 2	110	1
H016	Rocklea	H016-D11-7905	H016-D11-7905-18VTA	20042667	TYPE 2	110	1
H016	Rocklea	H016-D11-7905	H016-D11-7905-18VTB	20042668	TYPE 2	110	1
H016	Rocklea	H016-D11-7905	H016-D11-7905-18VTC	20042669	TYPE 2	110	1
H022	Loganlea	H022-D01-7837	H022-D01-7837-12VTA	20041899	TYPE 2	110	1

H022	Loganlea	H022-D01-7837	H022-D01-7837-12VTB	20041900	TYPE 2	110	1
H022	Loganlea	H022-D01-7837	H022-D01-7837-12VTC	20041901	TYPE 2	110	1
H022	Loganlea	H022-D15-7843	H022-D15-7843-14VTA	20054233	TYPE 2	110	1
H022	Loganlea	H022-D15-7843	H022-D15-7843-14VTB	20054234	TYPE 2	110	1
H022	Loganlea	H022-D15-7843	H022-D15-7843-14VTC	20054235	TYPE 2	110	1
H063	Teebar Creek	H063-D07-7316	H063-D07-7316-11VTA	20053852	TYPE 2	132	1
H063	Teebar Creek	H063-D07-7316	H063-D07-7316-11VTB	20053853	TYPE 2	132	1
H063	Teebar Creek	H063-D07-7316	H063-D07-7316-11VTC	20053854	TYPE 2	132	1
H063	Teebar Creek	H063-D08-7315	H063-D08-7315-12VTA	20053855	TYPE 2	132	1
H063	Teebar Creek	H063-D08-7315	H063-D08-7315-12VTB	20053856	TYPE 2	132	1
H063	Teebar Creek	H063-D08-7315	H063-D08-7315-12VTC	20053857	TYPE 2	132	1
T160	Sumner	T160-KD--KD1-	T160-KD--KD1--1VTA	20051727	TYPE 2	110	1
T160	Sumner	T160-KD--KD1-	T160-KD--KD1--1VTB	20051728	TYPE 2	110	1
T160	Sumner	T160-KD--KD1-	T160-KD--KD1--1VTC	20051729	TYPE 2	110	1
T160	Sumner	T160-KD--KD2-	T160-KD--KD2--2VTA	20051724	TYPE 2	110	1
T160	Sumner	T160-KD--KD2-	T160-KD--KD2--2VTB	20051725	TYPE 2	110	1
T160	Sumner	T160-KD--KD2-	T160-KD--KD2--2VTC	20051726	TYPE 2	110	1

CP02984 CVT Replacement – South Phase 1 Project Management Plan

Version History

Version	Date	Section(s)	Summary of amendment
1.0	31/10/2025	N/A	Initial issue

Table of Contents

1. Executive Summary

Powerlink's fleet of CVTs from a particular manufacturer (CVT subset) have had a high rate of premature failure with only around 60% of installed equipment still in service. Due to this high failure rate and the difficulty of managing network risks under unplanned outages, it is recommended that all high consequence of failure CVTs within the CVT subset, that are between 14 to 22 years of age, are replaced.

Due to the large number of high consequence CVTs that are between 14 to 22 years of age, the works have been separated into individual projects/stages based on region, priority and whether or not the sites have at risk CTs. The first rollout of projects are as follows:

- CP.02984 CVT Replacement – South Phase 1 (sites with no at risk CTs).
- CP.02985 CVT Replacement – Central North Phase 2 (sites with at risk CTs).
- CP.02986 CVT Replacement – South Phase 3 (sites with at risk CTs).
- CP.02987 CVT Replacement – Central North Phase 4 (sites with no at risk CTs).

Project Scope Report (PSR) with a requested date of **31st of December 2028** to replace selected CVTs in the **Southern** region.

The assessment from the project team has determined that the project can be delivered by this date.

This is a **Class 3** proposal and will follow the Two stage approval process.

	Date
Project Scope Report (Revision # 1) - date received	18/03/2025
Project Proposal (Class 3) - date submitted	03/11/2025
RIT-T Process	15/12/2025 to 12/06/2026
Submit Class 2	7/08/2026
Full Approval Project Action Advice (PAA) - date received	18/09/2026

1.1 Overview of Estimated Costs

	Stage 1 Proposal	**Stage 2 Proposal**	**Cost Difference**	**Rationale for Changes**
Base Cost	$4,739,406	$5,666,584	$927,178	SME level estimates received to develop class 3 estimate
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	

2. Project Definition

2.1 Project Scope

Briefly, the project consists of replacing 42 CVTs at five sites in the Southern region as follows:

1. H003 Belmont:

- 3 x 275kV CVTs
- 15 x 110kV CVTs

2. H022 Loganlea:
   - 6 x 110kV CVTs
3. H016 Rocklea:
   - 6 x 110kV CVTs
4. T160 Sumner:
   - 6 x 110kV CVTs
5. H063 Teebar Creek:
   - 6 x 132kV CVTs

2.1.1 Substations Works

Design, procure, construct and commission replacement CVTs for the existing CVTs. The scope of works includes:

- Design, procure, install, test and commission suitably rated replacement CVTs.
- Where the existing CVTs are used in revenue metering schemes, ensure a complaint metering installation in accordance with Powerlink and AEMO revenue metering guidelines.
- Remove obsolete line traps.
- Decommission and dispose of the redundant equipment update drawing records, SAP records, config files, etc as required.

2.1.2 Transmission Lines / Transmission Lines Refit

Not applicable.

2.1.3 Telecommunications

Not applicable.

2.1.4 Revenue Metering

Not applicable.

2.1.5 Other Project Works

Not applicable.

2.2 Exclusions

- Replacement of secondary systems cabling from the marshalling kiosk to the Control building.
- Design or implementation of any control builds.
- Installation of new marshalling kiosks and foundations.
- Design & implementation of any RAZ mitigation barriers for site access.
- Supply or installation of any containers, barriers, shielding and associated R&D.

2.3 Assumptions

- CVTs replacement work is independent of at risk CT works.
- New CVTs will be installed on existing foundations using new structures or adaptor plates except for the following bays:
    - 1 x CVT foundation at H003-C07-830-1VTA.
    - 3 x CVT foundation at H022-D01-7837-12VTABC.
    - 3 x CVT foundation at H022-D15-7843-14VTABC.
- Necessary field & design resources will be provided to complete the project on time.
- Procurement and delivery of all necessary materials, including CVTs are made available on time.
- The procurement cost includes the cost of the new CVTs as per the current contract price.
- Minimal Secondary Systems work; any cabling will fit within existing marshalling kiosks.
- New CVTs will be oil-filled, with no requirement for SF6 installation (in line with current asset strategy).
- All CVTs will be replaced during outages & network access is available as required.
- All construction and commissioning works is by MSP (Field delivery or Ergon) and resources are available to deliver this project.
- Existing CVTs units will be free of PCBs.
- Removed CVTs will be appropriately disposed of in accordance with standard procedures.

2.4 Project Interaction

Interactions with other projects as follows:

Project Number and Description	Interaction (Pre-requisite/Co-requisite/dependent/Related)	Planned Commissioning Date
CP.03107 - Replace 275kV CTs – Metro	Interaction	December 2029
OR02317 - H022 Loganlea Transformer 2 Decommissioning	Interaction	June 2027
CP02985 - CVT Replacement - Central North Phase 2	Related	June 2029
CP.02986 - CVT Replacement - South Phase 3	Related	June 2029
CP.02987 - CVT Replacement – Central North Phase 4	Related	December 2027

2.5 Project Risk

Project risks identified during Project Proposal phase are as follows:

No	Category	Risk Description	Impact	Consequence (L/M/H)	Likelihood	Cost ($)
1	Finance & Economic	Fluctuations in moving average	Moderate	M	Likely	$101,750
2	People / Human	MSP Labour constraints	Minor	M	Possible	$47,500
3	Natural Events	Abnormal Weather Events	Minor	M	Possible	$72,300
4	Design	Design Constraints	Minor	M	Possible	$35,200
5	Delivery	Outage Constraints / RTS	Minor	M	Possible	$91,800
6	Delivery	Requirement of Live Subs	Moderate	M	Possible	$190,200
Total Risk						**$538,750**

2.6 Applicable Lessons Learned

Lessons learned from the planning and execution of the suite 275kV CT replacement to date.

- **Procurement:**
    - Hold regular meetings with the procurement team to ensure CVTs for this project are on schedule. Some manufacturers have had CT compliance issues with the 275kV CT replacement projects. Confirm all CVTs are compliant before they leave the factory.
- **Program of works:**
    - Efficiencies in the CVT replacement programs can be achieved through better site coordination and resource continuity. By scheduling works to minimise network outages the program can maintain network reliability while advancing replacement works. Furthermore, deploying the same field crews across the various sites enables the transfer of knowledge & experience resulting in improved execution, quality, and safety outcomes.

3. Project Financials

3.1 Project Estimate

3.1.1 Estimate Summary

Refer to Basis of Estimate for this project.

		Sub Total $	Total $
Estimate Class	3		
Estimate accuracy (+% / -%)	-20% / +30%		
Base Estimate		$5,666,584	
[redacted]		[redacted]	
[redacted]			[redacted]
[redacted]	[redacted]	[redacted]	
[redacted]	[redacted]	[redacted]	
[redacted]			[redacted]
[redacted]			[redacted]

3.1.2 Stage 1 Project development

Following the Stage 1 approval, this proposal requests the release of early funds (as detailed below) to commence detailed designs and planning phase. This funding will enable the development of staging plans, preparation of formal RFQs, and contractor pricing. This process will enable the development and submission of a comprehensive Class 2 proposal.

	Activity	Units	Hours	Unit Cost	Total
1	Prourement	42		$ 15,000.00	$ 630,000.00
2	RFQ Preparation (FAM)	1		$ 20,000.00	$ 20,000.00
3	Contractor price proposal (Contract Team)		80	$ 300.00	$ 24,000.00
4	Netops Outage Negotations (Netops)		40	$ 300.00	$ 12,000.00
5	Design (Inc Design Coordinator)	14		$ 16,000.00	$ 224,000.00
6	Project Manager		160	$ 300.00	$ 48,000.00
7	PCM		80	$ 300.00	$ 24,000.00
8	Construction Manager		80	$ 300.00	$ 24,000.00
9	Estimator (Prepare Class 2)		80	$ 300.00	$ 24,000.00
	Total				**$ 1,030,000.00**

3.1.3 Asset Write-Off Table

Functional Location	Description	Asset	Sub-numb	Book val.	Write-off %	Write-off Value	Currency
H003-C07-830-	830 MURARRIE FEEDER BAY	104382	0	1,322,499.44	12%	$ 158,699.93	AUD
H022-D01-7837	7837 FEEDER BAY (ENERGEX)	107681	0	348,085.69	15%	$ 52,212.85	AUD
H016-D11-7905	F905 FEEDER BAY	109943	0	412,416.97	15%	$ 61,862.55	AUD
H016-D03-7818	F818 FEEDER BAY	112557	0	411,961.64	15%	$ 61,794.25	AUD
H022-D15-7843	843 FEEDER BAY (ENERGEX FDR 843)	114901	0	657,411.98	15%	$ 98,611.80	AUD
H063-D08-7315	7315 ARAMARA 132kV FEEDER BAY	115102	0	841,922.24	15%	$ 126,288.34	AUD
H063-D07-7316	7316 ARAMARA 132kV FEEDER BAY	115103	0	841,922.24	15%	$ 126,288.34	AUD
H003-D32-766-	766 FEEDER BAY	121899	0	1,092,340.45	15%	$ 163,851.07	AUD
H003-D35-767-	767 FEEDER BAY	121900	0	1,092,340.45	15%	$ 163,851.07	AUD
H003-D38-750-	750 FEEDER BAY	121903	0	1,092,750.67	15%	$ 163,912.60	AUD
H003-D55-7287	7287 FEEDER BAY	121910	0	1,087,417.37	15%	$ 163,112.61	AUD
H003-D56-7288	7288 FEEDER BAY	121911	0	1,102,596.88	15%	$ 165,389.53	AUD
					Total Regulated	$1,505,874.92	AUD

4. Project Planning Strategy

4.1 Milestones

The following key milestones are required to deliver the project:

Milestones	Planned Dates
Submit Class 3 Proposal	3/11/2025
NBD Review Class 3	3/11/2025 to 12/12/2025
RIT-T Process	15/12/2025 to 12/06/2026
Submit Class 2	7/08/2026
NBD review & Prep	10/8/2026 to 18/09/2026
Receive Full PAN	18/09/2026

4.2 Project Staging

The high-level project stages are as follows:

Stage	Activity/Stage Description	High Level Timing
1	H003 Belmont	March 2027 to May 2027
2	H016 Rocklea	Sept 2027 to Oct 2027
3	H022 Loganlea	March 2028 to Aug 2028
4	H063 Teebar Creek	Aug 2028 to Sept 2028
5	T160 Sumner	Sept 2028 to Dec 2028

For detail staging, refer to the Project Staging Plan.

4.3 Project Schedule

Project timing shall be managed using a Project Schedule. Refer to the Project Schedule in PWA Server.

4.4 Network Impacts and Outage Planning

Planning access to the Network for project staging and commissioning is essential to minimise any impact on network operations during Project commissioning. This approach aims to mitigate potential disruptions to other ongoing operational requirements within the Network.

An outage plan is being developed by the Project Team as part of the project proposal on the likelihood of the outages required for this project.

4.5 Project Delivery Strategy

Strategy to deliver the project as follows:

Description	***Responsibility***							
	Main Site				***Remote End(s)***			
	Powerlink	***Contractor***	***MSP – O&SD***	***MSP - Ergon***	***Powerlink***	***Contractor***	***MSP – O&SD***	***MSP***
Primary Design Systems (PSD):								
Civil and Structural	☒	☐	☐	☐	☐	☐	☐	☐
Electrical	☒	☐	☐	☐	☐	☐	☐	☐
Secondary Systems Design (SSD):								
Protection	☒	☐	☐	☐	☐	☐	☐	☐
Automation (Circuitry and Systems Configurations)	☒	☐	☐	☐	☐	☐	☐	☐
Construction:								
Construction (support structures, plant and equipment installation and demolition Works)	☐	☐	☒	☐	☐	☐	☐	☐
Secondary Systems Installation (loose panel's installation, panel modification, IED replacement, etc.)	☐	☐	☒	☐	☐	☐	☐	☐
Testing and Commissioning:								
Factory Acceptance Test	☐	☐	☒	☐	☐	☐	☐	☐
Site Acceptance Test (partial)	☐	☐	☒	☐	☐	☐	☐	☐
System Cut Over and Commissioning	☐	☐	☒	☐	☐	☐	☐	☐

4.6 Procurement Strategy

The procurement strategy for services and selected items are listed below. All other services and items shall be procured in accordance with Powerlink's Procurement Standard.

Description	**Procurement Method**
Services:	
MSP – OSD	RFQ
MSP – Ergon	RFQ – Service Level Agreement
Primary Plant and Equipment:	
HV Plant and Equipment	Period Contractors
Structures	Standing Offer arrangement with preferred/preapproved suppliers
Hardware and fittings	Standing Offer arrangement with preferred/preapproved suppliers

5. References

The following documents are applicable to this Project Management Plan.

Document name	Version	Date
Project Scope Report	V 3.0	Mar 25

6. Attachments

6.1 List of CVTs to be replaced under CP.02984

Site	Name	Bay	Functional location	Equipment	Metering Type	Voltage	Priority
H003	Belmont	H003-C07-830-	H003-C07-830--1VTA	20042673	None	275	2
H003	Belmont	H003-C07-830-	H003-C07-830--1VTB	20042674	None	275	2
H003	Belmont	H003-C07-830-	H003-C07-830--1VTC	20042675	None	275	2
H003	Belmont	H003-D32-766-	H003-D32-766--33VTA	20058392	TYPE 2	110	1
H003	Belmont	H003-D32-766-	H003-D32-766--33VTB	20058393	TYPE 2	110	1
H003	Belmont	H003-D32-766-	H003-D32-766--33VTC	20058394	TYPE 2	110	1
H003	Belmont	H003-D35-767-	H003-D35-767--34VTA	20058395	TYPE 2	110	1
H003	Belmont	H003-D35-767-	H003-D35-767--34VTB	20058396	TYPE 2	110	1
H003	Belmont	H003-D35-767-	H003-D35-767--34VTC	20058397	TYPE 2	110	1
H003	Belmont	H003-D38-750-	H003-D38-750--36VTA	20058401	TYPE 2	110	1
H003	Belmont	H003-D38-750-	H003-D38-750--36VTB	20058402	TYPE 2	110	1
H003	Belmont	H003-D38-750-	H003-D38-750--36VTC	20058403	TYPE 2	110	1
H003	Belmont	H003-D55-7287	H003-D55-7287-43VTA	20058415	TYPE 1	110	1
H003	Belmont	H003-D55-7287	H003-D55-7287-43VTB	20058416	TYPE 1	110	1
H003	Belmont	H003-D55-7287	H003-D55-7287-43VTC	20058417	TYPE 1	110	1

H003	Belmont	H003-D56-7288	H003-D56-7288-44VTA	20066207	TYPE 1	110	1
H003	Belmont	H003-D56-7288	H003-D56-7288-44VTB	20066208	TYPE 1	110	1
H003	Belmont	H003-D56-7288	H003-D56-7288-44VTC	20066209	TYPE 1	110	1
H016	Rocklea	H016-D03-7818	H016-D03-7818-17VTA	20049589	TYPE 2	110	1
H016	Rocklea	H016-D03-7818	H016-D03-7818-17VTB	20049591	TYPE 2	110	1
H016	Rocklea	H016-D03-7818	H016-D03-7818-17VTC	20049590	TYPE 2	110	1
H016	Rocklea	H016-D11-7905	H016-D11-7905-18VTA	20042667	TYPE 2	110	1
H016	Rocklea	H016-D11-7905	H016-D11-7905-18VTB	20042668	TYPE 2	110	1
H016	Rocklea	H016-D11-7905	H016-D11-7905-18VTC	20042669	TYPE 2	110	1
H022	Loganlea	H022-D01-7837	H022-D01-7837-12VTA	20041899	TYPE 2	110	1
H022	Loganlea	H022-D01-7837	H022-D01-7837-12VTB	20041900	TYPE 2	110	1
H022	Loganlea	H022-D01-7837	H022-D01-7837-12VTC	20041901	TYPE 2	110	1
H022	Loganlea	H022-D15-7843	H022-D15-7843-14VTA	20054233	TYPE 2	110	1
H022	Loganlea	H022-D15-7843	H022-D15-7843-14VTB	20054234	TYPE 2	110	1
H022	Loganlea	H022-D15-7843	H022-D15-7843-14VTC	20054235	TYPE 2	110	1
H063	Teebar Creek	H063-D07-7316	H063-D07-7316-11VTA	20053852	TYPE 2	132	1
H063	Teebar Creek	H063-D07-7316	H063-D07-7316-11VTB	20053853	TYPE 2	132	1

H063	Teebar Creek	H063-D07-7316	H063-D07-7316-11VTC	20053854	TYPE 2	132	1
H063	Teebar Creek	H063-D08-7315	H063-D08-7315-12VTA	20053855	TYPE 2	132	1
H063	Teebar Creek	H063-D08-7315	H063-D08-7315-12VTB	20053856	TYPE 2	132	1
H063	Teebar Creek	H063-D08-7315	H063-D08-7315-12VTC	20053857	TYPE 2	132	1
T160	Sumner	T160-KD--KD1-	T160-KD--KD1--1VTA	20051727	TYPE 2	110	1
T160	Sumner	T160-KD--KD1-	T160-KD--KD1--1VTB	20051728	TYPE 2	110	1
T160	Sumner	T160-KD--KD1-	T160-KD--KD1--1VTC	20051729	TYPE 2	110	1
T160	Sumner	T160-KD--KD2-	T160-KD--KD2--2VTA	20051724	TYPE 2	110	1
T160	Sumner	T160-KD--KD2-	T160-KD--KD2--2VTB	20051725	TYPE 2	110	1
T160	Sumner	T160-KD--KD2-	T160-KD--KD2--2VTC	20051726	TYPE 2	110	1