

# OPTIONS EVALUATION REPORT (OER)



FY24-28 Disconnecter Renewal Program

OER- N2349 revision 3.0

**Ellipse project no(s):**

**TRIM file:** [TRIM No]

**Project reason:** Capability - Asset Replacement for end of life condition

**Project category:** Prescribed - Asset Renewal Strategies

## Approvals

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<b>Date submitted for approval</b>	10 November 2021	

## Change history

Revision	Date	Amendment
0	01/11/2021	Initial version
1,2	10/11/2021	Minor wording updates
3	12/11/2021	Correct pdf creation (no content change)

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## Executive summary

High voltage disconnectors and associated earth switches have an important role of providing visible isolation and to earth a section of high voltage network for switching and isolation purpose. Disconnectors and earth switches (hereinafter referred to as disconnectors) are required in the network to facilitate maintenance of other HV equipment like circuit breakers (CB) and transformers.

Disconnectors are approaching end of life and present an increased risk of failure, causing unplanned network outages and increased corrective maintenance costs. 586 disconnectors have been identified as approaching end of life and requiring consideration of risk reduction measures for implementation in the 2023 – 2028 regulatory period. Out of 586 units, 301 disconnectors have been assessed for only one option (216 only for replacement and 85 only for refurbishment) and the remaining 285 units have been assessed for both replacement and refurbishment options.

This need is an economic benefits need with the following expected benefits:

- > Reduction of risk valued as a direct impact to TransGrid and consumers of expected unserved energy;
- > Avoided operating expenditure related to corrective maintenance.

The assessment of the options considered to address this identified need appears in Table 1. The result is that 201 disconnectors have been found optimally timed for renewal (162 replacement and 39 refurbishment) in the 2023 – 2028 regulatory period meeting following criteria:

- > Meets the need,
- > Is technically feasible,
- > Has a positive net present value,
- > Provides the highest net present value of each option evaluated, and
- > The optimal project timing is earlier than the end of the 2023 – 2028 regulatory period.

The remaining 382 disconnectors evaluated do not meet this criteria and are not recommended to be replaced under this need. The option evaluation summary for the recommended 201 disconnectors with their associated earth switches renewal projects under this need is shown in Table 1.

**Table 1 - Evaluated options (\$ million) – Summary**

Option	Description	Direct capital cost	Network and corporate overheads	Total capital cost <sup>1</sup>	Weighted NPV	Rank
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**Projects where Option A – Replacement is the highest ranked option (162 units- 94 units with two options and 68 units with one option)**

Option A	Replacement of disconnectors	\$22.19	\$7.22	\$29.41	\$1305.80	1
Option B	Refurbishment of disconnectors	\$2.87	\$0.93	\$3.80	\$359.65	2

**Projects where Option B – Refurbishment is the highest ranked option (39 units with only one option)**

Option A	Replacement of disconnectors	Replacement option is not evaluated for this disconnectors				
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<sup>1</sup> Total capital cost is the sum of the direct capital cost and network and corporate overheads. Total capital cost is used in this OER for all analysis.

Option B	Refurbishment of disconnectors	\$1.25	\$0.42	\$1.67	41.41	1
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It is recommended to proceed with implementing the renewal program comprising 201 disconnectors with their associated earth switches with a total program cost of \$31.07 million. The detailed breakdown of option evaluation for each project is provided in Appendix B.

## 1. Need/opportunity

There are 5180 disconnectors and earth switches installed in TransGrid's network. Of this population, 30% will be over the nominal expected life 40 years by 2027/28. With such a large ageing population, a strategic approach is required to plan investments over the coming years to manage these assets effectively and efficiently.

The disconnectors considered for renewal under this need are older disconnectors that have already reached their end of life. The following inputs are considered in decision making for end of life renewal:

- > Age
- > Selective condition assessments (completed under need N2314)
- > Location based corrosive versus non-corrosive
- > Known type issues and site issues
- > Defect data with consideration of accuracy and cost of defects
- > Engineering assessment and field staff's experience of working with these disconnectors

The scope of the condition assessments (N2314) included a sample of disconnectors which will be over 40 years of age by 2027/28. They are ALM, Essantee, ASEA and Stanger type disconnectors at various voltage levels, which are common types in TransGrid's network. Based on the condition assessment of sample disconnectors, the scope and cost estimates for refurbishment were determined. A life extension of 10 years is expected from a disconnector refurbishment.

Disconnectors are required for isolation of network elements to perform the required routine and corrective maintenance. Due to ageing and in combination with corrosive atmosphere these disconnectors and earth switches often fail or have difficulty in performing their required function of opening or closing. The failure of the disconnector is expected to result in additional equipment outages to isolate the failed disconnector for repair. In case of bus disconnectors this results in additional significant outage due to isolation of all other services from the affective bus bar.

The associated outages are expected to disrupt customer and distributor supplies and increase in corrective maintenance for repairs.

This need is an economic benefits need with the following expected benefits:

- > Reduction of risk valued as a direct impact to TransGrid and consumers of expected unserved energy;
- > Avoided operating expenditure related to corrective maintenance.

## 2. Related needs/opportunities

Assets considered within this disconnector renewal program (need N2349) include disconnectors and their associated earth switches which are also considered under need N2534 – Southern NSW fault level increase Program. These needs have been reconciled to ensure no duplication within the final replacement programs.

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## 3. Options

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### 3.1 Base Case

Under the 'Base Case' no renewal strategy is implemented for the assets evaluated under this need. This is a 'run to fail' scenario and will lead to an increase in the identified risks under this need, the eventual failure of the assets and the realisation of the expected consequences. This case shall only be considered as a last resort should no option be deemed viable through the NPV evaluation process.

Increased operating and maintenance activity costs are included as an opex cost against the assets. This increased cost is modelled based on historical breakdown (corrective) repair costs and represents an avoided operating cost increase benefit when mitigated through renewal.

### 3.2 Options Evaluated

There are two options to address the identified and evaluated for this need: replacement and refurbishment. The options have been evaluated for the 586 disconnectors identified as approaching end of life based on the following:

- > 501 disconnectors are evaluated for replacement
  - 216 of these are considered only for replacement and not refurbishment. This is because they will be 55 or older by year 2027/28 and refurbishment is unlikely to provide 10 or more years of life extension for these disconnectors.
  - 285 are considered for replacement or refurbishment to ensure optimal economic assessment
- > 85 are only evaluated for refurbishment, being in 41-50 years age group and are expected to improve condition after refurbishment and avoid investment in replacement.

The scope of the refurbishment and replacement options is outlined below.

#### **Option A** — Replacement [[NOSA 2349A](#), [OFS 2349A](#)]

This option considers the replacement of an existing disconnector and associated earth switch with a new unit.

Option A fully addresses the identified need by installation of a new disconnector and associated earth switches with very low probability of failure and associated risk cost. The replacement costs under Option A for each project within this program are included in Appendix B, with an expected duration of 1 year for each project.

Replacement work may include the following:

- > High voltage and civil design work
- > Secondary system design work
- > Plant procurement and transportation
- > Civil work (e.g.: footing replacement or modifications as required)
- > Site work and commissioning

#### **Option B** — Refurbishment [[NOSA 2349B](#), [OFS N2314](#)]

This option considers the refurbishment of an aged existing disconnector and associated earth switches to achieve at least 10 years of life extension.

Option B partially addresses the identified need as successful refurbishment is expected to result in life extension and reliable operation of disconnector or earth switch by at least another 10 years.

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The refurbishment costs under Option B for each project within this program are included in Appendix B, with an expected duration of 1 year for each project. Refurbishment work may include the following scope based on detailed individual assessment:

- > Replacement or repair of bearings
- > Renewal or replacement of fixed and moving HV contacts
- > Replacement of leaking gear boxes in motorised disconnectors
- > Repair or replace mechanism box cover
- > Re-wire or replace mechanism box to current Australian Standards
- > Repair or replace any vertical drive rod/horizontal drive rod, if required
- > Rewinding or replacement of damaged motor in motorised disconnectors
- > Treat and paint metal parts of disconnector like structure members for rust and corrosion
- > Replacement of fasteners
- > Replacement of degraded insulators (corroded/broken/cracked)
- > Renewal of footing, structure and holding down bolts

### 3.3 Options considered and not progressed

The following options were considered but not progressed:

**Table 2- Other options considered**

Option	Reason for not progressing
Increased inspections	The condition issues have already been identified and cannot be rectified through increased maintenance or inspections, and therefore is not technically feasible to address the need.
Elimination of all associated risk	This can only be achieved by retiring the assets, which is not technically feasible due to the requirement to maintain the existing network reliability.
Non-network solutions	It is not technically feasible for non-network solutions to provide the functionality of the equipment under this need.

## 4. Evaluation

### 4.1 Commercial evaluation methodology

The economic assessment undertaken for this project includes three scenarios that reflect a central set of assumptions based on current information that is most likely to eventuate (central scenario), a set of assumptions that give rise to a lower bound for net benefits (lower bound scenario), and a set of assumptions that give rise to an upper bound on benefits (higher bound scenario).

Assumptions for each scenario are set out in the Table 3 below.

**Table 3- Scenario assumptions**

Parameter	Central scenario	Lower bound scenario	Higher bound scenario
Discount rate	4.8%	7.37%	2.23%
Capital cost	100%	125%	75%
Operating expenditure benefit	100%	75%	125%
Risk cost benefit	100%	75%	125%
Other benefits	Not applicable in this need		
<b>Scenario weighting</b>	<b>50%</b>	<b>25%</b>	<b>25%</b>

Parameters used in this commercial evaluation are shown in Table 4.

**Table 4- Commercial evaluation parameters**

Parameter	Parameter Description	Value used for this evaluation
Discount year	Year that dollar values are discounted to	2020/21
Base year	The year that dollar value outputs are expressed in real terms	2020/21 dollars
Period of analysis	Number of years included in economic analysis with remaining capital value included as terminal value at the end of the analysis period.	25 years
ALARP disproportionality	Multiplier of the environmental and safety related risk cost included in NPV analysis to demonstrate implementation of obligation to reduce to ALARP.	Not used in this evaluation.

The capex figures in this OER do not include any real cost escalation.

## 4.2 Commercial evaluation results

The commercial evaluation of the technically feasible options is set out in Table 5, showing 201 projects which ere the selected to be in the program:

- > Meets the need,
- > Is technically feasible,
- > Has a positive net present value,
- > Provides the highest net present value of each option evaluated,
- > Optimal project timing is earlier than the end of the 2023 – 2028 regulatory period.

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**Table 5 - Commercial evaluation (PV, \$ million)**

Option	Capital Cost PV	Central scenario NPV	Lower bound scenario NPV	Higher bound scenario NPV	Weighted NPV	Ranking
<b>Projects where Option A – Replacement is the highest ranked option (162 units- 94 units with two options and 68 units with one option)</b>						
Option A	\$21.18	\$1,141.49	\$519.94	\$2420.29	\$1305.80	1
Option B	\$2.74	\$315.32	\$144.72	\$663.23	\$359.65	2
<b>Projects where Option B – Refurbishment is the highest ranked option (39 units, all with one option)</b>						
Option A	Replacement option is not evaluated for this disconnectors					
Option B	\$1.20	\$35.73	\$14.88	\$79.30	\$41.41	1

### 4.3 ALARP evaluation

ALARP evaluation is not applicable for this evaluation because there is no modelled safety or environmental risk.

### 4.4 Preferred option

The list of the projects and options for each of the 586 disconnector renewal projects evaluated are included in Appendix B. The result is that 201 disconnectors have been found optimally timed for renewal (162 replacement and 39 refurbishment) in the 2023 – 2028 regulatory period meeting criteria for this need.

Therefore total 201 disconnector and associated earth switches replacement projects that are recommended to be progressed at a total program cost of \$31.07 million under this need.

#### Capital and Operating Expenditure

Opex cost benefits associated reduced corrective expenditure has been allowed for in the business case NPV and optimal timing evaluation. There are no capex to opex trade-offs considered in this evaluation.

#### Regulatory Investment Test

The program and estimate allows for the appropriate regulatory approvals as required.

## 5. Optimal Timing

The test for optimal timing of the preferred option has been undertaken. The approach taken is to identify the optimal commissioning year for the preferred option where net benefits (including avoided costs) of the preferred option exceeds the annualised costs of the option.

The results of optimal timing analysis for each disconnector and associated earth switches project within the program is included in Appendix C.

This OER recommends progressing only positive business cases which are optimally timed before the end of the 2023-2028 Regulatory Period, hence all projects are evaluated for benefit in the final year of the period.

- > Evaluation commissioning year: 2027/28
- > Commissioning year annual benefit: \$60.92 million
- > Annualised cost: \$1.76 million

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## 6. Recommendation

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It is recommended to proceed with implementing N2349 disconnecter renewal program replacement of 201 disconnectors and associated earth switches at a total program cost of \$31.07 million.

This program amount includes an allowance of \$6.0 million to progress the project from Decision Gate1 (DG1) to Decision Gate 2 (DG2).

The list of all 586 disconnectors evaluated under this need is included in Appendix B and the final program is included in Appendix C.



## Appendix A - Commercial evaluation report

Option Description		Option A - N2349 Program - Disconnectors OER Option A, Rank 1, 162 units	
Option Rank	1	Investment Assessment Period	25
Asset Life	40	NPV Year	2021
Economic Evaluation			
NPV @ Central Benefit Scenario (PV, \$million)	1141.49	Annualised CAPEX @ Central Benefit Scenario (\$million)	Annualised Capex - Standard (Business Case) 1.67
NPV @ Lower Bound Scenario (PV, \$million)	519.94	Network Safety Risk Reduction (\$million)	Network Safety Risk Reduction 6.06
NPV @ Higher Bound Scenario (PV, \$million)	2420.29	ALARP	ALARP Compliant? No
NPV Weighted (PV, \$million)	1305.80	Optimal Timing	Optimal timing (Business Case) 2028
Cost (Central Scenario)			
Direct Capex (\$million)	22.19	Network and Corporate Overheads (\$million)	7.22
Total Capex (\$million)	29.41	Cost Capex (PV,\$million)	21.18
Terminal Value (\$million)	10.29	Terminal Value PV,\$million)	2.30
Risk (Central Scenario)	Pre	Post	Benefit
Reliability (PV,\$million)	Reliability Risk (Pre) 1160.58	Reliability Risk (Post) 5.32	Pre – Post 1155.26
Financial (PV,\$million)	Financial Risk (Pre) 1.70	Financial Risk (Post) 0.01	Pre – Post 1.69
Operational/Compliance (PV,\$million)	Operational Risk (Pre) 0.00	Operational Risk (Post) 0.00	Pre – Post 0.00
Safety (PV,\$million)	Safety Risk (Pre) 0.00	Safety Risk (Post) 0.00	Pre – Post 0.00
Environmental (PV,\$million)	Environmental Risk (Pre) 0.00	Environmental Risk (Post) 0.00	Pre – Post 0.00
Reputational (\$million)	Reputational Risk (Pre) 1.36	Reputational Risk (Post) 0.01	Pre – Post 1.35
<b>Total Risk (PV,\$million)</b>	<b>Total Risk (Pre)</b> 1163.64	<b>Total Risk (Post)</b> 5.33	<b>Pre – Post</b> 1158.31
OPEX Benefit (PV,\$million)			OPEX Benefit 2.07
Other benefit (PV,\$million)			Incremental Net Benefit 0.00
<b>Total Benefit (PV,\$million)</b>			<b>Business Case Total Benefit</b> 1160.38

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Option Description			
Option B - N2349 Program - Disconnectors OER Option B, Refurbishment Rank 1, 39 units			
Option Rank	1	Investment Assessment Period	25
Asset Life	10	NPV Year	2021
Economic Evaluation			
NPV @ Central Benefit Scenario (PV, \$million)	35.73	Annualised CAPEX @ Central Benefit Scenario (\$million)	Annualised Capex - Standard (Business Case) 0.21
NPV @ Lower Bound Scenario (PV, \$million)	14.88	Network Safety Risk Reduction (\$million)	Network Safety Risk Reduction 0.21
NPV @ Higher Bound Scenario (PV, \$million)	79.30	ALARP	ALARP Compliant? No
NPV Weighted (PV, \$million)	41.41	Optimal Timing	Optimal timing (Business Case) 2028
Cost (Central Scenario)			
Direct Capex (\$million)	1.25	Network and Corporate Overheads (\$million)	0.42
Total Capex (\$million)	1.67	Cost Capex (PV,\$million)	1.20
Terminal Value (\$million)	0.00	Terminal Value PV,\$million)	0.00
Risk (Central Scenario)	Pre	Post	Benefit
Reliability (PV,\$million)	Reliability Risk (Pre) 78.71	Reliability Risk (Post) 38.89	Pre – Post 39.82
Financial (PV,\$ million)	Financial Risk (Pre) 0.16	Financial Risk (Post) 0.08	Pre – Post 0.08
Operational/Compliance (PV,\$ million)	Operational Risk (Pre) 0.00	Operational Risk (Post) 0.00	Pre – Post 0.00
Safety (PV,\$ million)	Safety Risk (Pre) 0.00	Safety Risk (Post) 0.00	Pre – Post 0.00
Environmental (PV,\$ million)	Environmental Risk (Pre) 0.00	Environmental Risk (Post) 0.00	Pre – Post 0.00
Reputational (\$million)	Reputational Risk (Pre) 0.71	Reputational Risk (Post) 0.09	Pre – Post 0.08
Total Risk (PV,\$ million)	Total Risk (Pre) 79.05	Total Risk (Post) 39.06	Pre – Post 39.99
OPEX Benefit (PV,\$ million)			OPEX Benefit 0.11
Other benefit (PV,\$ million)			Incremental Net Benefit 0.00
<b>Total Benefit (PV,\$ million)</b>			<b>Business Case Total Benefit</b> 40.10

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## Appendix B Disconnecter Option Evaluation Summary

The following table provides a summary of the individual option evaluations of the 586 disconnectors evaluated under this OER. Each disconnector is evaluated under either option A, Option B or both.

A disconnector project is recommended to be included in the final program if it is NPV positive, highest rank ("Rank 1") and is optimally timed prior to 2027/28. The 201 disconnectors which meet the criteria are recommended to proceed under this OER and are indicated in the table where indicated with "Yes" in the "preferred option" column. Where the optimal timing is calculated as prior to 2023/24 the year is stated as 2023/24 which is the earliest practicable year for completion. The actual program phasing will depend on the final developed portfolio.

Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
CMSAVS1A	17 MACARTHUR 330KV FEEDER	A05948/5	A	\$234,000	-\$116,282	2052/53	\$1,869	\$13,266	No, NPV negative
CMSAVS1A	17 MACARTHUR 330KV FEEDER	A05948/5	B	\$35,625	-\$114,031	2052/53	\$700	\$2,020	No, NPV negative
CMSAVS1B	16 MARULAN 330KV FEEDER	A05948/1	A	\$234,000	-\$116,298	2052/53	\$1,868	\$13,266	No, NPV negative
CMSAVS1B	16 MARULAN 330KV FEEDER	A05948/1	B	\$35,625	-\$114,038	2052/53	\$700	\$2,020	No, NPV negative
CMSAVS1BB	330KV BUSBAR	A05948/2	A	\$234,000	-\$114,496	2052/53	\$1,943	\$13,266	No, NPV negative
CMSAVS1BB	330KV BUSBAR	A05948/2	B	\$35,625	-\$113,232	2052/53	\$739	\$2,020	No, NPV negative
CMSAVS1BB	330KV BUSBAR	A05948/4	A	\$234,000	-\$114,496	2052/53	\$1,943	\$13,266	No, NPV negative
CMSAVS1BB	330KV BUSBAR	A05948/4	B	\$35,625	-\$113,232	2052/53	\$739	\$2,020	No, NPV negative
CMSAVS1BB	330KV BUSBAR	A05948/6	A	\$234,000	-\$114,496	2052/53	\$1,943	\$13,266	No, NPV negative
CMSAVS1BB	330KV BUSBAR	A05948/6	B	\$35,625	-\$113,232	2052/53	\$739	\$2,020	No, NPV negative
CMSAVS1C	10 DAPTO 330KV FEEDER	A05948/3	A	\$234,000	-\$116,298	2052/53	\$1,868	\$13,266	No, NPV negative
CMSAVS1C	10 DAPTO 330KV FEEDER	A05948/3	B	\$35,625	-\$114,038	2052/53	\$700	\$2,020	No, NPV negative
CMSDPT1A2	NO1 TRANSFORMER 330/132/11KV TRANSF BAY	EC00002924	B	\$42,666	-\$102,493	2052/53	\$523	\$2,419	No, NPV negative
CMSDPT1A2	NO1 TRANSFORMER 330/132/11KV TRANSF BAY	EC00005431	B	\$42,666	-\$102,493	2052/53	\$523	\$2,419	No, NPV negative
CMSDPT1D2	NO3 TRANSFORMER 330/132/11KV TRANSF BAY	EC00004926	B	\$42,666	-\$102,493	2052/53	\$523	\$2,419	No, NPV negative
CMSDPT1D2	NO3 TRANSFORMER 330/132/11KV TRANSF BAY	EC00004929	B	\$42,666	-\$102,493	2052/53	\$523	\$2,419	No, NPV negative

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
CMSDPT1E2	NO4 TRANSFORMER 330/132/11KV TRANSF BAY	EC00004938	B	\$42,666	-\$102,178	2052/53	\$543	\$2,419	No, NPV negative
CMSDPT1E2	NO4 TRANSFORMER 330/132/11KV TRANSF BAY	EC00004941	B	\$42,666	-\$102,178	2052/53	\$543	\$2,419	No, NPV negative
CMSDPT2F	98W MT TERRY 132KV FEEDER	EC00002755	B	\$42,666	-\$90,067	2050/51	\$1,071	\$2,419	No, NPV negative
CMSDPT2J1	980 BELLAMBI CREEK 132KV FEEDER	EC00005225	B	\$42,666	-\$98,820	2052/53	\$685	\$2,419	No, NPV negative
CMSDPT2K	981 BELLAMBI CREEK 132KV FEEDER	EC00005231	B	\$42,666	-\$98,820	2052/53	\$685	\$2,419	No, NPV negative
CMSDPT2L	98Y SPRINGHILL 132KV FEEDER	EC00005237	B	\$42,666	-\$103,340	2052/53	\$480	\$2,419	No, NPV negative
CMSDPT2M	982 SPRINGHILL 132KV FEEDER	EC00002926	B	\$42,666	-\$103,059	2052/53	\$498	\$2,419	No, NPV negative
CMSDPT2P1	B1 SECTION 132KV BUSBAR	EC00002757	B	\$42,666	\$59,351	2023/24	\$7,660	\$2,419	Yes, rank 1
CMSDPT2P1	B1 SECTION 132KV BUSBAR	EC00005228	B	\$42,666	\$59,351	2023/24	\$7,660	\$2,419	Yes, rank 1
CMSDPT2P1	B1 SECTION 132KV BUSBAR	EC00005240	B	\$42,666	\$59,351	2023/24	\$7,660	\$2,419	Yes, rank 1
CMSDPT2P1	B1 SECTION 132KV BUSBAR	EC00005254	B	\$42,666	\$59,351	2023/24	\$7,660	\$2,419	Yes, rank 1
CMSDPT2P1	B1 SECTION 132KV BUSBAR	EC00005409	B	\$42,666	\$59,351	2023/24	\$7,660	\$2,419	Yes, rank 1
CMSDPT2P2	B2 SECTION 132KV BUSBAR	EC00004923	B	\$42,666	\$394,726	2023/24	\$22,449	\$2,419	Yes, rank 1
CMSDPT2P2	B2 SECTION 132KV BUSBAR	EC00004935	B	\$42,666	\$419,730	2023/24	\$23,940	\$2,419	Yes, rank 1
CMSDPT2P2	B2 SECTION 132KV BUSBAR	EC00005251	B	\$42,666	\$394,726	2023/24	\$22,449	\$2,419	Yes, rank 1
CMSDPT2P2	B2 SECTION 132KV BUSBAR	EC00005263	B	\$42,666	\$419,730	2023/24	\$23,940	\$2,419	Yes, rank 1
CMSDPT2P2	B2 SECTION 132KV BUSBAR	EC00005269	B	\$42,666	\$394,726	2023/24	\$22,449	\$2,419	Yes, rank 1
CMSDPT2P2	B2 SECTION 132KV BUSBAR	EC00005412	B	\$42,666	\$394,726	2023/24	\$22,449	\$2,419	Yes, rank 1
CMSDPT2Q1	A1 SECTION 132KV BUSBAR	EC00002756	B	\$42,666	\$557,136	2023/24	\$29,611	\$2,419	Yes, rank 1
CMSDPT2Q1	A1 SECTION 132KV BUSBAR	EC00005222	B	\$42,666	\$557,136	2023/24	\$29,611	\$2,419	Yes, rank 1
CMSDPT2Q1	A1 SECTION 132KV BUSBAR	EC00005234	B	\$42,666	\$524,984	2023/24	\$27,716	\$2,419	Yes, rank 1
CMSDPT2Q1	A1 SECTION 132KV BUSBAR	EC00005420	B	\$42,666	\$557,136	2023/24	\$29,611	\$2,419	Yes, rank 1

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
							1		
CMSDPT2Q2	A2 SECTION 132KV BUSBAR	EC00004920	B	\$42,666	\$56,202	2023/24	\$7,521	\$2,419	Yes, rank 1
CMSDPT2Q2	A2 SECTION 132KV BUSBAR	EC00004932	B	\$42,666	\$64,397	2023/24	\$8,010	\$2,419	Yes, rank 1
CMSDPT2Q2	A2 SECTION 132KV BUSBAR	EC00005245	B	\$42,666	\$48,233	2023/24	\$7,050	\$2,419	Yes, rank 1
CMSDPT2Q2	A2 SECTION 132KV BUSBAR	EC00005257	B	\$42,666	\$56,202	2023/24	\$7,521	\$2,419	Yes, rank 1
CMSDPT2Q2	A2 SECTION 132KV BUSBAR	EC00005423	B	\$42,666	\$56,202	2023/24	\$7,521	\$2,419	Yes, rank 1
CMSDPT2R	983 TALLAWARRA 132KV FEEDER	EC00005248	B	\$42,666	-\$103,340	2052/53	\$480	\$2,419	No, NPV negative
CMSDPT2W	984 TALLAWARRA 132KV FEEDER	EC00005266	B	\$42,666	-\$102,773	2052/53	\$516	\$2,419	No, NPV negative
CMSDPT2X	98F MT TERRY 132KV FEEDER	EC00005426	B	\$42,666	-\$90,067	2050/51	\$1,071	\$2,419	No, NPV negative
CMSKVS1C	19 BENDEELA 330KV FEEDER	A05496/7	A	\$234,000	-\$118,882	2052/53	\$1,708	\$13,266	No, NPV negative
CMSKVS1C	19 BENDEELA 330KV FEEDER	A05496/7	B	\$34,961	-\$114,285	2052/53	\$651	\$1,982	No, NPV negative
CMSKVS1D1	3W CAPITAL WIND FARM 330KV FEEDER BAY	A05496/1	A	\$234,000	-\$118,134	2052/53	\$1,738	\$13,266	No, NPV negative
CMSKVS1D1	3W CAPITAL WIND FARM 330KV FEEDER BAY	A05496/1	B	\$34,961	-\$113,942	2052/53	\$668	\$1,982	No, NPV negative
CMSKVS1E	N03 SECTION 330KV BUSBAR	A05496/2	A	\$234,000	-\$118,134	2052/53	\$1,738	\$13,266	No, NPV negative
CMSKVS1E	N03 SECTION 330KV BUSBAR	A05496/2	B	\$34,961	-\$113,942	2052/53	\$668	\$1,982	No, NPV negative
CMSKVS1E	N03 SECTION 330KV BUSBAR	A05496/3	A	\$234,000	-\$118,134	2052/53	\$1,738	\$13,266	No, NPV negative
CMSKVS1E	N03 SECTION 330KV BUSBAR	A05496/3	B	\$34,961	-\$113,942	2052/53	\$668	\$1,982	No, NPV negative
CMSKVS1E	N03 SECTION 330KV BUSBAR	A05496/8	A	\$234,000	-\$118,134	2052/53	\$1,738	\$13,266	No, NPV negative
CMSKVS1E	N03 SECTION 330KV BUSBAR	A05496/8	B	\$34,961	-\$113,942	2052/53	\$668	\$1,982	No, NPV negative
CMSKVS1E	N03 SECTION 330KV BUSBAR	A05496/9	A	\$234,000	-\$118,134	2052/53	\$1,738	\$13,266	No, NPV negative
CMSKVS1E	N03 SECTION 330KV BUSBAR	A05496/9	B	\$34,961	-\$113,942	2052/53	\$668	\$1,982	No, NPV negative
CMSKVS1E	N03 SECTION 330KV BUSBAR	A05497/1	A	\$234,000	-\$119,409	2052/53	\$1,660	\$13,266	No, NPV negative
CMSKVS1E	N03 SECTION 330KV BUSBAR	A05497/1	B	\$34,961	-\$114,306	2052/53	\$644	\$1,982	No, NPV negative
CMSKVS1F	N04 SECTION 330KV BUSBAR	A05496/5	A	\$234,000	-\$118,134	2052/53	\$1,738	\$13,266	No, NPV negative
CMSKVS1F	N04 SECTION 330KV BUSBAR	A05496/5	B	\$34,961	-\$113,942	2052/53	\$668	\$1,982	No, NPV negative
CMSKVS1F	N04 SECTION 330KV BUSBAR	A05496/6	A	\$234,000	-\$118,134	2052/53	\$1,738	\$13,266	No, NPV negative
CMSKVS1F	N04 SECTION 330KV BUSBAR	A05496/6	B	\$34,961	-\$113,942	2052/53	\$668	\$1,982	No, NPV negative

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
CMSKVS1F	NO4 SECTION 330KV BUSBAR	A05497/2	A	\$234,000	-\$118,134	2052/53	\$1,738	\$13,266	No, NPV negative
CMSKVS1F	NO4 SECTION 330KV BUSBAR	A05497/2	B	\$34,961	-\$113,942	2052/53	\$668	\$1,982	No, NPV negative
CMSKVS1F	NO4 SECTION 330KV BUSBAR	A05497/3	A	\$234,000	-\$118,134	2052/53	\$1,738	\$13,266	No, NPV negative
CMSKVS1F	NO4 SECTION 330KV BUSBAR	A05497/3	B	\$34,961	-\$113,942	2052/53	\$668	\$1,982	No, NPV negative
CMSKVS1G1	18 DAPTO 330KV FEEDER BAY	A05496/4	A	\$234,000	-\$118,882	2052/53	\$1,708	\$13,266	No, NPV negative
CMSKVS1G1	18 DAPTO 330KV FEEDER BAY	A05496/4	B	\$34,961	-\$114,285	2052/53	\$651	\$1,982	No, NPV negative
CMSSE11A2	NO1 TRANSFORMER 330/132/16KV TRANSF BAY	A02026/2	A	\$189,000	-\$86,683	2052/53	\$1,952	\$10,715	No, NPV negative
CMSSE11A2	NO1 TRANSFORMER 330/132/16KV TRANSF BAY	A02026/2	B	\$32,375	-\$92,100	2052/53	\$724	\$1,835	No, NPV negative
CMSSE11A2	NO1 TRANSFORMER 330/132/16KV TRANSF BAY	A02027/9	A	\$189,000	-\$86,683	2052/53	\$1,952	\$10,715	No, NPV negative
CMSSE11A2	NO1 TRANSFORMER 330/132/16KV TRANSF BAY	A02027/9	B	\$32,375	-\$92,100	2052/53	\$724	\$1,835	No, NPV negative
CMSSE11A2	NO1 TRANSFORMER 330/132/16KV TRANSF BAY	A02028/6	A	\$189,000	-\$88,034	2052/53	\$1,868	\$10,715	No, NPV negative
CMSSE11A2	NO1 TRANSFORMER 330/132/16KV TRANSF BAY	A02028/6	B	\$32,375	-\$92,470	2052/53	\$700	\$1,835	No, NPV negative
CMSSE11B2	NO2 TRANSFORMER 330/132/16KV TRANSF BAY	A02025/6	A	\$189,000	-\$88,034	2052/53	\$1,868	\$10,715	No, NPV negative
CMSSE11B2	NO2 TRANSFORMER 330/132/16KV TRANSF BAY	A02025/6	B	\$32,375	-\$92,470	2052/53	\$700	\$1,835	No, NPV negative
CMSSE11B2	NO2 TRANSFORMER 330/132/16KV TRANSF BAY	A02025/9	A	\$189,000	-\$86,683	2052/53	\$1,952	\$10,715	No, NPV negative
CMSSE11B2	NO2 TRANSFORMER 330/132/16KV TRANSF BAY	A02025/9	B	\$32,375	-\$92,100	2052/53	\$724	\$1,835	No, NPV negative
CMSSE11B2	NO2 TRANSFORMER 330/132/16KV TRANSF BAY	A02027/7	A	\$189,000	-\$86,683	2052/53	\$1,952	\$10,715	No, NPV negative
CMSSE11B2	NO2 TRANSFORMER 330/132/16KV TRANSF BAY	A02027/7	B	\$32,375	-\$92,100	2052/53	\$724	\$1,835	No, NPV negative
CMSSE11C2	NO3 TRANSFORMER 330/132/16KV TRANSF BAY	A02025/2	A	\$189,000	-\$88,034	2052/53	\$1,868	\$10,715	No, NPV negative
CMSSE11C2	NO3 TRANSFORMER 330/132/16KV TRANSF BAY	A02025/2	B	\$32,375	-\$92,470	2052/53	\$700	\$1,835	No, NPV negative

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
CMSSE11C2	N03 TRANSFORMER 330/132/16KV TRANSF BAY	A02026/8	A	\$189,000	-\$86,683	2052/53	\$1,952	\$10,715	No, NPV negative
CMSSE11C2	N03 TRANSFORMER 330/132/16KV TRANSF BAY	A02026/8	B	\$32,375	-\$92,100	2052/53	\$724	\$1,835	No, NPV negative
CMSSE11C2	N03 TRANSFORMER 330/132/16KV TRANSF BAY	A02028/5	A	\$189,000	-\$86,683	2052/53	\$1,952	\$10,715	No, NPV negative
CMSSE11C2	N03 TRANSFORMER 330/132/16KV TRANSF BAY	A02028/5	B	\$32,375	-\$92,100	2052/53	\$724	\$1,835	No, NPV negative
CMSSE11D2	N04 TRANSFORMER 330/132/16KV TRANSF BAY	A02026/4	A	\$189,000	-\$86,683	2052/53	\$1,952	\$10,715	No, NPV negative
CMSSE11D2	N04 TRANSFORMER 330/132/16KV TRANSF BAY	A02026/4	B	\$32,375	-\$92,100	2052/53	\$724	\$1,835	No, NPV negative
CMSSE11D2	N04 TRANSFORMER 330/132/16KV TRANSF BAY	A02028/2	A	\$189,000	-\$86,683	2052/53	\$1,952	\$10,715	No, NPV negative
CMSSE11D2	N04 TRANSFORMER 330/132/16KV TRANSF BAY	A02028/2	B	\$32,375	-\$92,100	2052/53	\$724	\$1,835	No, NPV negative
CMSSE11E1	A1 SECTION 330KV BUSBAR	A02038/1	A	\$234,000	-\$116,298	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSE11E1	A1 SECTION 330KV BUSBAR	A02038/1	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSE11E1	A1 SECTION 330KV BUSBAR	A02038/3	A	\$234,000	-\$116,298	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSE11E1	A1 SECTION 330KV BUSBAR	A02038/3	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSE11E1	A1 SECTION 330KV BUSBAR	A02039/1	A	\$234,000	-\$116,298	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSE11E1	A1 SECTION 330KV BUSBAR	A02039/1	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSE11E2	A2 SECTION 330KV BUSBAR	A02037/6	A	\$234,000	-\$116,297	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSE11E2	A2 SECTION 330KV BUSBAR	A02037/6	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSE11E2	A2 SECTION 330KV BUSBAR	A02038/4	A	\$234,000	-\$116,297	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSE11E2	A2 SECTION 330KV BUSBAR	A02038/4	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSE11E2	A2 SECTION 330KV BUSBAR	A02039/5	A	\$234,000	-\$116,297	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSE11E2	A2 SECTION 330KV BUSBAR	A02039/5	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSE11F1	B1 SECTION 330KV BUSBAR	A02037/8	A	\$234,000	-\$116,297	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSE11F1	B1 SECTION 330KV BUSBAR	A02037/8	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSE11F1	B1 SECTION 330KV BUSBAR	A02038/5	A	\$234,000	-\$116,297	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSE11F1	B1 SECTION 330KV BUSBAR	A02038/5	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
CMSSE11F1	B1 SECTION 330KV BUSBAR	A02039/2	A	\$234,000	-\$116,297	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSE11F1	B1 SECTION 330KV BUSBAR	A02039/2	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSE11F2	B2 SECTION 330KV BUSBAR	A02037/1	A	\$234,000	-\$116,297	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSE11F2	B2 SECTION 330KV BUSBAR	A02037/1	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSE11F2	B2 SECTION 330KV BUSBAR	A02037/2	A	\$234,000	-\$116,297	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSE11F2	B2 SECTION 330KV BUSBAR	A02037/2	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSE11F2	B2 SECTION 330KV BUSBAR	A02037/3	A	\$234,000	-\$116,297	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSE11F2	B2 SECTION 330KV BUSBAR	A02037/3	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSE11F2	B2 SECTION 330KV BUSBAR	A02037/4	A	\$234,000	-\$116,297	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSE11F2	B2 SECTION 330KV BUSBAR	A02037/4	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSE11N1	27 SYDNEY NORTH 330KV FEEDER BAY	A02037/9	A	\$234,000	-\$116,289	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSE11N1	27 SYDNEY NORTH 330KV FEEDER BAY	A02037/9	B	\$36,289	-\$114,506	2052/53	\$700	\$2,057	No, NPV negative
CMSSE11N1	27 SYDNEY NORTH 330KV FEEDER BAY	A02038/2	A	\$234,000	-\$116,289	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSE11N1	27 SYDNEY NORTH 330KV FEEDER BAY	A02038/2	B	\$36,289	-\$114,506	2052/53	\$700	\$2,057	No, NPV negative
CMSSE11P1	28 SYDNEY NORTH 330KV FEEDER BAY	A02037/5	A	\$234,000	-\$116,289	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSE11P1	28 SYDNEY NORTH 330KV FEEDER BAY	A02037/5	B	\$36,289	-\$114,506	2052/53	\$700	\$2,057	No, NPV negative
CMSSE11P1	28 SYDNEY NORTH 330KV FEEDER BAY	A02037/7	A	\$234,000	-\$116,289	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSE11P1	28 SYDNEY NORTH 330KV FEEDER BAY	A02037/7	B	\$36,289	-\$114,506	2052/53	\$700	\$2,057	No, NPV negative
CMSSE12BA1	A1 SECTION 132KV BUSBAR	A02027/4	A	\$189,000	\$899,649	2023/24	\$43,575	\$10,715	Yes, rank 1
CMSSE12BA1	A1 SECTION 132KV BUSBAR	A02027/4	B	\$32,375	\$343,462	2023/24	\$22,600	\$1,835	No, rank 2
CMSSE12BA1	A1 SECTION 132KV BUSBAR	A02027/8	A	\$189,000	\$899,649	2023/24	\$43,575	\$10,715	Yes, rank 1
CMSSE12BA1	A1 SECTION 132KV BUSBAR	A02027/8	B	\$32,375	\$343,462	2023/24	\$22,600	\$1,835	No, rank 2
CMSSE12BA1	A1 SECTION 132KV BUSBAR	A02030/7	A	\$189,000	\$846,540	2023/24	\$40,757	\$10,715	Yes, rank 1
CMSSE12BA1	A1 SECTION 132KV BUSBAR	A02030/7	B	\$32,375	\$325,538	2023/24	\$21,429	\$1,835	No, rank 2
CMSSE12BA1	A1 SECTION 132KV BUSBAR	A02031/1	A	\$189,000	\$846,540	2023/24	\$40,757	\$10,715	Yes, rank 1

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CMSSE12BA1	A1 SECTION 132KV BUSBAR	A02031/1	B	\$32,375	\$325,538	2023/24	\$21,429	\$1,835	No, rank 2
CMSSE12BA2	A2 SECTION 132KV BUSBAR	A02027/2	A	\$189,000	\$1,257,071	2023/24	\$58,658	\$10,715	Yes, rank 1
CMSSE12BA2	A2 SECTION 132KV BUSBAR	A02027/2	B	\$32,375	\$501,298	2023/24	\$30,527	\$1,835	No, rank 2
CMSSE12BA2	A2 SECTION 132KV BUSBAR	A02027/5	A	\$189,000	\$1,257,071	2023/24	\$58,658	\$10,715	Yes, rank 1
CMSSE12BA2	A2 SECTION 132KV BUSBAR	A02027/5	B	\$32,375	\$501,298	2023/24	\$30,527	\$1,835	No, rank 2
CMSSE12BA2	A2 SECTION 132KV BUSBAR	A02027/6	A	\$189,000	\$1,257,071	2023/24	\$58,658	\$10,715	Yes, rank 1
CMSSE12BA2	A2 SECTION 132KV BUSBAR	A02027/6	B	\$32,375	\$501,298	2023/24	\$30,527	\$1,835	No, rank 2
CMSSE12BA2	A2 SECTION 132KV BUSBAR	A02029/9	A	\$189,000	\$1,257,071	2023/24	\$58,658	\$10,715	Yes, rank 1
CMSSE12BA2	A2 SECTION 132KV BUSBAR	A02029/9	B	\$32,375	\$501,298	2023/24	\$30,527	\$1,835	No, rank 2
CMSSE12BA3	A3 SECTION 132KV BUSBAR	A02026/5	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative
CMSSE12BA3	A3 SECTION 132KV BUSBAR	A02026/5	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
CMSSE12BA3	A3 SECTION 132KV BUSBAR	A02026/7	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative
CMSSE12BA3	A3 SECTION 132KV BUSBAR	A02026/7	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
CMSSE12BA3	A3 SECTION 132KV BUSBAR	A02027/3	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative
CMSSE12BA3	A3 SECTION 132KV BUSBAR	A02027/3	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
CMSSE12BA3	A3 SECTION 132KV BUSBAR	A02029/5	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative
CMSSE12BA3	A3 SECTION 132KV BUSBAR	A02029/5	B	\$32,375	-\$93,278	2052/53	\$659	\$1,835	No, NPV negative
CMSSE12BA4	A4 SECTION 132KV BUSBAR	A02026/3	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative
CMSSE12BA4	A4 SECTION 132KV BUSBAR	A02026/3	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
CMSSE12BA4	A4 SECTION 132KV BUSBAR	A02026/6	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative
CMSSE12BA4	A4 SECTION 132KV BUSBAR	A02026/6	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
CMSSE12BA4	A4 SECTION 132KV BUSBAR	A02029/1	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative

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CMSSE12BA4	A4 SECTION 132KV BUSBAR	A02029/1	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
CMSSE12BA4	A4 SECTION 132KV BUSBAR	A02031/5	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative
CMSSE12BA4	A4 SECTION 132KV BUSBAR	A02031/5	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
CMSSE12BA4	A4 SECTION 132KV BUSBAR	A02031/9	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative
CMSSE12BA4	A4 SECTION 132KV BUSBAR	A02031/9	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
CMSSE12BB1	B1 SECTION 132KV BUSBAR	A02025/7	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative
CMSSE12BB1	B1 SECTION 132KV BUSBAR	A02025/7	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
CMSSE12BB1	B1 SECTION 132KV BUSBAR	A02026/1	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative
CMSSE12BB1	B1 SECTION 132KV BUSBAR	A02026/1	B	\$32,375	-\$93,278	2052/53	\$659	\$1,835	No, NPV negative
CMSSE12BB1	B1 SECTION 132KV BUSBAR	A02030/4	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative
CMSSE12BB1	B1 SECTION 132KV BUSBAR	A02030/4	B	\$32,375	-\$93,278	2052/53	\$659	\$1,835	No, NPV negative
CMSSE12BB1	B1 SECTION 132KV BUSBAR	A02030/8	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative
CMSSE12BB1	B1 SECTION 132KV BUSBAR	A02030/8	B	\$32,375	-\$93,278	2052/53	\$659	\$1,835	No, NPV negative
CMSSE12BB1	B1 SECTION 132KV BUSBAR	A02032/2	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative
CMSSE12BB1	B1 SECTION 132KV BUSBAR	A02032/2	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
CMSSE12BB2	B2 SECTION 132KV BUSBAR	A02025/3	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative
CMSSE12BB2	B2 SECTION 132KV BUSBAR	A02025/3	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
CMSSE12BB2	B2 SECTION 132KV BUSBAR	A02025/5	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative
CMSSE12BB2	B2 SECTION 132KV BUSBAR	A02025/5	B	\$32,375	-\$93,278	2052/53	\$659	\$1,835	No, NPV negative
CMSSE12BB2	B2 SECTION 132KV BUSBAR	A02030/2	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative
CMSSE12BB2	B2 SECTION 132KV BUSBAR	A02030/2	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
CMSSE12BB2	B2 SECTION 132KV BUSBAR	EC00004349	B	\$32,375	-\$97,336	2052/53	\$399	\$1,835	No, NPV negative
CMSSE12BB2	B2 SECTION 132KV BUSBAR	EC00018223	B	\$42,666	-\$104,144	2052/53	\$430	\$2,419	No, NPV negative
CMSSE12BB3	B3 SECTION 132KV BUSBAR	A02025/1	A	\$189,000	\$1,270,764	2023/24	\$58,410	\$10,715	Yes, rank 1
CMSSE12BB3	B3 SECTION 132KV BUSBAR	A02025/1	B	\$32,375	\$515,281	2023/24	\$30,838	\$1,835	No, rank 2
CMSSE12BB3	B3 SECTION 132KV BUSBAR	A02025/4	A	\$189,000	\$1,347,367	2023/24	\$62,468	\$10,715	Yes, rank 1
CMSSE12BB3	B3 SECTION 132KV BUSBAR	A02025/4	B	\$32,375	\$541,173	2023/24	\$32,53	\$1,835	No, rank 2

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
CMSSE12BB3	B3 SECTION 132KV BUSBAR	A02028/3	A	\$189,000	\$1,347,367	2023/24	\$62,468	\$10,715	Yes, rank 1
CMSSE12BB3	B3 SECTION 132KV BUSBAR	A02028/3	B	\$32,375	\$541,173	2023/24	\$32,530	\$1,835	No, rank 2
CMSSE12BB3	B3 SECTION 132KV BUSBAR	A02029/7	A	\$189,000	\$1,270,764	2023/24	\$58,410	\$10,715	Yes, rank 1
CMSSE12BB3	B3 SECTION 132KV BUSBAR	A02029/7	B	\$32,375	\$515,281	2023/24	\$30,838	\$1,835	No, rank 2
CMSSE12BB4	B4 SECTION 132KV BUSBAR	A02028/1	A	\$189,000	\$1,347,367	2023/24	\$62,468	\$10,715	Yes, rank 1
CMSSE12BB4	B4 SECTION 132KV BUSBAR	A02028/1	B	\$32,375	\$541,173	2023/24	\$32,530	\$1,835	No, rank 2
CMSSE12BB4	B4 SECTION 132KV BUSBAR	A02028/4	A	\$189,000	\$1,347,367	2023/24	\$62,468	\$10,715	Yes, rank 1
CMSSE12BB4	B4 SECTION 132KV BUSBAR	A02028/4	B	\$32,375	\$541,173	2023/24	\$32,530	\$1,835	No, rank 2
CMSSE12BB4	B4 SECTION 132KV BUSBAR	A02029/3	A	\$189,000	\$1,347,367	2023/24	\$62,468	\$10,715	Yes, rank 1
CMSSE12BB4	B4 SECTION 132KV BUSBAR	A02029/3	B	\$32,375	\$541,173	2023/24	\$32,530	\$1,835	No, rank 2
CMSSE12BB4	B4 SECTION 132KV BUSBAR	A02031/3	A	\$189,000	\$1,347,367	2023/24	\$62,468	\$10,715	Yes, rank 1
CMSSE12BB4	B4 SECTION 132KV BUSBAR	A02031/3	B	\$32,375	\$541,173	2023/24	\$32,530	\$1,835	No, rank 2
CMSSE12BB4	B4 SECTION 132KV BUSBAR	A02031/7	A	\$189,000	\$1,347,367	2023/24	\$62,468	\$10,715	Yes, rank 1
CMSSE12BB4	B4 SECTION 132KV BUSBAR	A02031/7	B	\$32,375	\$541,173	2023/24	\$32,530	\$1,835	No, rank 2
CMSSE12ER	9E1 KURINGAI 132KV FEEDER BAY	A02031/2	A	\$189,000	-\$65,401	2052/53	\$2,810	\$10,715	No, NPV negative
CMSSE12ER	9E1 KURINGAI 132KV FEEDER BAY	A02031/2	B	\$32,375	-\$82,346	2046/47	\$1,202	\$1,835	No, NPV negative
CMSSE12ES	9M2 WARRINGAH 132KV FEEDER BAY	A02030/6	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative
CMSSE12ES	9M2 WARRINGAH 132KV FEEDER BAY	A02030/6	B	\$32,375	-\$93,278	2052/53	\$659	\$1,835	No, NPV negative
CMSSE12FS	9E3 WILLOUGHBY 132KV FEEDER BAY	A02030/9	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
CMSSE12FS	9E3 WILLOUGHBY 132KV FEEDER BAY	A02030/9	B	\$32,375	-\$93,278	2052/53	\$659	\$1,835	No, NPV negative
CMSSE12FV	9M1 WARRINGAH 132KV FEEDER BAY	A02030/5	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative
CMSSE12FV	9M1 WARRINGAH 132KV FEEDER BAY	A02030/5	B	\$32,375	-\$93,278	2052/53	\$659	\$1,835	No, NPV negative
CMSSE12GT	9E5 WILLOUGHBY 132KV FEEDER	A02030/1	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative
CMSSE12GT	9E5 WILLOUGHBY 132KV FEEDER	A02030/1	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
CMSSE12HT	925 WILLOUGHBY TEE 132KV FEEDER BAY	A02030/3	A	\$189,000	-\$60,129	2052/53	\$3,073	\$10,715	No, NPV negative
CMSSE12HT	925 WILLOUGHBY TEE 132KV FEEDER BAY	A02030/3	B	\$32,375	-\$80,374	2044/45	\$1,313	\$1,835	No, NPV negative
CMSSE12JR	9E4 WILLOUGHBY TEE 132KV FEEDER BAY	A02029/6	A	\$189,000	-\$62,873	2052/53	\$2,915	\$10,715	No, NPV negative
CMSSE12JR	9E4 WILLOUGHBY TEE 132KV FEEDER BAY	A02029/6	B	\$32,375	-\$81,216	2045/46	\$1,258	\$1,835	No, NPV negative
CMSSE12KR	9E2 KURINGAI 132KV FEEDER	A02029/8	A	\$189,000	-\$65,401	2052/53	\$2,810	\$10,715	No, NPV negative
CMSSE12KR	9E2 KURINGAI 132KV FEEDER	A02029/8	B	\$32,375	-\$82,346	2046/47	\$1,202	\$1,835	No, NPV negative
CMSSE12LR	9M4 WARRINGAH 132KV FEEDER BAY	A02029/2	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative
CMSSE12LR	9M4 WARRINGAH 132KV FEEDER BAY	A02029/2	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
CMSSE12LS	92Z SYDNEY NORTH TEE 132KV FEEDER BAY	A02032/1	A	\$189,000	-\$85,706	2052/53	\$1,993	\$10,715	No, NPV negative
CMSSE12LS	92Z SYDNEY NORTH TEE 132KV FEEDER BAY	A02032/1	B	\$32,375	-\$91,669	2052/53	\$746	\$1,835	No, NPV negative
CMSSE12LU	NO7 TRANSFORMER 132KV CB BAY	A02031/6	A	\$189,000	-\$76,904	2052/53	\$2,365	\$10,715	No, NPV negative
CMSSE12LU	NO7 TRANSFORMER 132KV CB BAY	A02031/6	B	\$32,375	-\$87,782	2050/51	\$941	\$1,835	No, NPV negative
CMSSE12MR	9M3 WARRINGAH 132KV FEEDER BAY	A02029/4	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative
CMSSE12MR	9M3 WARRINGAH 132KV FEEDER BAY	A02029/4	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
CMSSE12MS	959 SYDNEY NORTH 132KV FEEDER BAY	A02031/4	A	\$189,000	-\$88,587	2052/53	\$1,872	\$10,715	No, NPV negative
CMSSE12MS	959 SYDNEY NORTH 132KV FEEDER BAY	A02031/4	B	\$32,375	-\$92,941	2052/53	\$682	\$1,835	No, NPV negative
CMSSE12MU	NO8 TRANSFORMER 132KV CB BAY	A02031/8	A	\$189,000	-\$76,904	2052/53	\$2,365	\$10,715	No, NPV negative
CMSSE12MU	NO8 TRANSFORMER 132KV CB BAY	A02031/8	B	\$32,375	-\$87,782	2050/51	\$941	\$1,835	No, NPV negative
CMSSYN1A2	NO1 TRANSFORMER 330/132/11KV TX BAY	H71485/1	A	\$189,000	-\$74,377	2052/53	\$2,734	\$10,715	No, NPV negative
CMSSYN1A2	NO1 TRANSFORMER 330/132/11KV TX BAY	H71485/2	A	\$189,000	-\$74,377	2052/53	\$2,734	\$10,715	No, NPV negative
CMSSYN1B2	NO2 TRANSFORMER 330/132/11KV TX BAY	H71489/1	A	\$189,000	-\$76,066	2052/53	\$2,625	\$10,715	No, NPV negative
CMSSYN1B2	NO2 TRANSFORMER 330/132/11KV TX BAY	H71489/2	A	\$189,000	-\$76,066	2052/53	\$2,625	\$10,715	No, NPV negative

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
CMSSYN1B2	NO2 TRANSFORMER 330/132/11KV TX BAY	H71494/1	A	\$189,000	-\$76,066	2052/53	\$2,625	\$10,715	No, NPV negative
CMSSYN1C2	NO3 TRANSFORMER 330/132/11KV TX BAY	H71498/1	A	\$189,000	-\$76,066	2052/53	\$2,625	\$10,715	No, NPV negative
CMSSYN1C2	NO3 TRANSFORMER 330/132/11KV TX BAY	H71500/1	A	\$189,000	-\$76,066	2052/53	\$2,625	\$10,715	No, NPV negative
CMSSYN1C2	NO3 TRANSFORMER 330/132/11KV TX BAY	H71509/2	A	\$189,000	-\$76,066	2052/53	\$2,625	\$10,715	No, NPV negative
CMSSYN1D2	NO4 TRANSFORMER 330/132/11KV TX BAY	H71506/2	A	\$189,000	-\$76,066	2052/53	\$2,625	\$10,715	No, NPV negative
CMSSYN1D2	NO4 TRANSFORMER 330/132/11KV TX BAY	H71507/1	A	\$189,000	-\$76,066	2052/53	\$2,625	\$10,715	No, NPV negative
CMSSYN1D2	NO4 TRANSFORMER 330/132/11KV TX BAY	H71512/1	A	\$189,000	-\$74,377	2052/53	\$2,734	\$10,715	No, NPV negative
CMSSYN1F1	20 SYDNEY WEST 330KV FEEDER BAY	H71417/1	A	\$234,000	-\$104,329	2052/53	\$2,625	\$13,266	No, NPV negative
CMSSYN1G1	14 KEMPS CREEK 330KV FEEDER BAY	H71417/3	A	\$234,000	-\$104,329	2052/53	\$2,625	\$13,266	No, NPV negative
CMSSYN1H1	22 VALES POINT 330KV FEEDER BAY	H71418/2	A	\$234,000	-\$104,329	2052/53	\$2,625	\$13,266	No, NPV negative
CMSSYN1H1	22 VALES POINT 330KV FEEDER BAY	H71418/3	A	\$234,000	-\$104,329	2052/53	\$2,625	\$13,266	No, NPV negative
CMSSYN1H1	22 VALES POINT 330KV FEEDER BAY	H71423/2	A	\$234,000	-\$104,329	2052/53	\$2,625	\$13,266	No, NPV negative
CMSSYN1J1	A1 SECTION 330KV BUSBAR	H71418/1	A	\$234,000	-\$104,329	2052/53	\$2,625	\$13,266	No, NPV negative
CMSSYN1J1	A1 SECTION 330KV BUSBAR	H71421/1	A	\$234,000	-\$104,329	2052/53	\$2,625	\$13,266	No, NPV negative
CMSSYN1J1	A1 SECTION 330KV BUSBAR	H71423/3	A	\$234,000	-\$104,329	2052/53	\$2,625	\$13,266	No, NPV negative
CMSSYN1J1	A1 SECTION 330KV BUSBAR	H71425/2	A	\$234,000	-\$104,329	2052/53	\$2,625	\$13,266	No, NPV negative
CMSSYN1J2	A2 SECTION 330KV BUSBAR	H71421/2	A	\$234,000	-\$102,711	2052/53	\$2,700	\$13,266	No, NPV negative
CMSSYN1J2	A2 SECTION 330KV BUSBAR	H71421/3	A	\$234,000	-\$102,711	2052/53	\$2,700	\$13,266	No, NPV negative
CMSSYN1J2	A2 SECTION 330KV BUSBAR	H71422/2	A	\$234,000	-\$102,711	2052/53	\$2,700	\$13,266	No, NPV negative
CMSSYN1K1	B1 SECTION 330KV BUSBAR	H71417/2	A	\$234,000	-\$104,329	2052/53	\$2,625	\$13,266	No, NPV negative
CMSSYN1K1	B1 SECTION 330KV BUSBAR	H71419/1	A	\$234,000	-\$104,329	2052/53	\$2,625	\$13,266	No, NPV negative
CMSSYN1K1	B1 SECTION 330KV BUSBAR	H71420/3	A	\$234,000	-\$104,329	2052/53	\$2,625	\$13,266	No, NPV negative
CMSSYN1K1	B1 SECTION 330KV BUSBAR	H71424/1	A	\$234,000	-\$104,329	2052/53	\$2,625	\$13,266	No, NPV negative
CMSSYN1K1	B1 SECTION 330KV BUSBAR	H71425/1	A	\$234,000	-\$104,329	2052/53	\$2,625	\$13,266	No, NPV negative
CMSSYN1K2	B2 SECTION 330KV BUSBAR	H71420/1	A	\$234,000	-\$102,711	2052/53	\$2,700	\$13,266	No, NPV negative
CMSSYN1K2	B2 SECTION 330KV BUSBAR	H71420/2	A	\$234,000	-\$102,711	2052/53	\$2,700	\$13,266	No, NPV negative
CMSSYN1K2	B2 SECTION 330KV BUSBAR	H71422/3	A	\$234,000	-\$102,711	2052/53	\$2,700	\$13,266	No, NPV negative
CMSSYN1L1	21 TUGGERAH 330KV FEEDER BAY	H71419/2	A	\$234,000	-\$104,327	2052/53	\$2,625	\$13,266	No, NPV negative
CMSSYN1L1	21 TUGGERAH 330KV FEEDER BAY	H71419/3	A	\$234,000	-\$104,327	2052/53	\$2,625	\$13,266	No, NPV negative

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CMSSYN1L1	21 TUGGERAH 330KV FEEDER BAY	H71422/1	A	\$234,000	-\$104,327	2052/53	\$2,625	\$13,266	No, NPV negative
CMSSYN2E	221 KENTHURST 132KV FEEDER BAY	H71490/1	A	\$189,000	-\$72,508	2052/53	\$2,821	\$10,715	No, NPV negative
CMSSYN2F	927 HOMEBUSH BAY TEE 132KV FEEDER BAY	H71487/2	A	\$189,000	-\$66,006	2052/53	\$3,124	\$10,715	No, NPV negative
CMSSYN2G	251 PENNANT HILLS 132KV FEEDER BAY	H71492/1	A	\$189,000	-\$78,781	2052/53	\$2,500	\$10,715	No, NPV negative
CMSSYN2H	926 MASON PARK TEE 132KV FEEDER BAY	H71488/1	A	\$189,000	-\$78,781	2052/53	\$2,500	\$10,715	No, NPV negative
CMSSYN2L1	B1 SECTION 132KV BUSBAR	H71485/3	A	\$189,000	\$533,325	2023/24	\$31,048	\$10,715	Yes, rank 1
CMSSYN2L1	B1 SECTION 132KV BUSBAR	H71486/1	A	\$189,000	\$533,325	2023/24	\$31,048	\$10,715	Yes, rank 1
CMSSYN2L1	B1 SECTION 132KV BUSBAR	H71488/3	A	\$189,000	\$503,526	2023/24	\$29,327	\$10,715	Yes, rank 1
CMSSYN2L1	B1 SECTION 132KV BUSBAR	H71490/2	A	\$189,000	\$533,325	2023/24	\$31,048	\$10,715	Yes, rank 1
CMSSYN2L1	B1 SECTION 132KV BUSBAR	H71495/1	A	\$189,000	\$503,526	2023/24	\$29,327	\$10,715	Yes, rank 1
CMSSYN2L2	B2 SECTION 132KV BUSBAR	H71496/1	A	\$189,000	-\$77,164	2052/53	\$2,575	\$10,715	No, NPV negative
CMSSYN2L2	B2 SECTION 132KV BUSBAR	H71499/1	A	\$189,000	-\$77,164	2052/53	\$2,575	\$10,715	No, NPV negative
CMSSYN2L2	B2 SECTION 132KV BUSBAR	H71501/1	A	\$189,000	-\$77,164	2052/53	\$2,575	\$10,715	No, NPV negative
CMSSYN2L2	B2 SECTION 132KV BUSBAR	H71503/1	A	\$189,000	-\$77,164	2052/53	\$2,575	\$10,715	No, NPV negative
CMSSYN2L2	B2 SECTION 132KV BUSBAR	H71504/1	A	\$189,000	-\$77,164	2052/53	\$2,575	\$10,715	No, NPV negative
CMSSYN2L2	B2 SECTION 132KV BUSBAR	H71508/2	A	\$189,000	-\$77,164	2052/53	\$2,575	\$10,715	No, NPV negative
CMSSYN2M1	A1 SECTION 132KV BUSBAR	H71488/2	A	\$189,000	\$51,613	2042/43	\$8,507	\$10,715	No, not optimally timed
CMSSYN2M1	A1 SECTION 132KV BUSBAR	H71489/3	A	\$189,000	\$51,613	2042/43	\$8,507	\$10,715	No, not optimally timed
CMSSYN2M1	A1 SECTION 132KV BUSBAR	H71491/1	A	\$189,000	\$51,613	2042/43	\$8,507	\$10,715	No, not optimally timed
CMSSYN2M1	A1 SECTION 132KV BUSBAR	H71493/1	A	\$189,000	\$51,613	2042/43	\$8,507	\$10,715	No, not optimally timed
CMSSYN2M1	A1 SECTION 132KV BUSBAR	H71497/1	A	\$189,000	\$51,613	2042/43	\$8,507	\$10,715	No, not optimally timed
CMSSYN2M2	A2 SECTION 132KV BUSBAR	H71490/3	A	\$189,000	\$79,061	2041/42	\$9,772	\$10,715	No, not optimally timed

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CMSSYN2M2	A2 SECTION 132KV BUSBAR	H71494/2	A	\$189,000	\$79,061	2041/42	\$9,772	\$10,715	timed No, not optimally timed
CMSSYN2M2	A2 SECTION 132KV BUSBAR	H71507/2	A	\$189,000	\$79,061	2041/42	\$9,772	\$10,715	No, not optimally timed
CMSSYN2M2	A2 SECTION 132KV BUSBAR	H71510/1	A	\$189,000	\$79,061	2041/42	\$9,772	\$10,715	No, not optimally timed
CMSSYN2M2	A2 SECTION 132KV BUSBAR	H71510/2	A	\$189,000	\$79,061	2041/42	\$9,772	\$10,715	No, not optimally timed
CMSSYN2N	92B LANE COVE T MACQ. PK 132KV FDR BAY	H71507/3	A	\$189,000	-\$78,781	2052/53	\$2,500	\$10,715	No, NPV negative
CMSSYN2P	92A LANE COVE T MACQ. PK 132KV FDR BAY	H71502/1	A	\$189,000	-\$78,781	2052/53	\$2,500	\$10,715	No, NPV negative
CMSSYN2R	250 BEROWRA 132KV FEEDER BAY	H71494/3	A	\$189,000	-\$39,200	2052/53	\$4,324	\$10,715	No, NPV negative
CMSSYN2S	92Z SYDNEY EAST TEE 132KV FEEDER BAY	H71511/1	A	\$189,000	-\$74,674	2052/53	\$2,689	\$10,715	No, NPV negative
CMSSYN2T	959 SYDNEY EAST 132KV FEEDER BAY	H71505/2	A	\$189,000	-\$78,777	2052/53	\$2,500	\$10,715	No, NPV negative
CMSSYS1H1	11 DAPTO 330KV FEEDER BAY	H70519/3	A	\$234,000	-\$116,298	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSYS1H1	11 DAPTO 330KV FEEDER BAY	H70519/3	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSYS1J1	13 KEMPS CREEK 330KV FEEDER BAY	H70517/3	A	\$234,000	-\$118,882	2052/53	\$1,708	\$13,266	No, NPV negative
CMSSYS1J1	13 KEMPS CREEK 330KV FEEDER BAY	H70517/3	B	\$36,289	-\$115,229	2052/53	\$651	\$2,057	No, NPV negative
CMSSYS1J1	13 KEMPS CREEK 330KV FEEDER BAY	H70518/1	A	\$234,000	-\$118,882	2052/53	\$1,708	\$13,266	No, NPV negative
CMSSYS1J1	13 KEMPS CREEK 330KV FEEDER BAY	H70518/1	B	\$36,289	-\$115,229	2052/53	\$651	\$2,057	No, NPV negative
CMSSYS1J1	13 KEMPS CREEK 330KV FEEDER BAY	H70519/2	A	\$234,000	-\$117,609	2052/53	\$1,786	\$13,266	No, NPV negative
CMSSYS1J1	13 KEMPS CREEK 330KV FEEDER BAY	H70519/2	B	\$36,289	-\$114,873	2052/53	\$675	\$2,057	No, NPV negative
CMSSYS1K1	A1 SECTION 330KV BUSBAR	H70520/1	A	\$234,000	-\$116,298	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSYS1K1	A1 SECTION 330KV BUSBAR	H70520/1	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSYS1K1	A1 SECTION 330KV BUSBAR	H70523/3	A	\$234,000	-\$118,882	2052/53	\$1,708	\$13,266	No, NPV negative
CMSSYS1K1	A1 SECTION 330KV BUSBAR	H70523/3	B	\$36,289	-\$115,229	2052/53	\$651	\$2,057	No, NPV negative
CMSSYS1K1	A1 SECTION 330KV BUSBAR	H70524/2	A	\$234,000	-\$116,298	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSYS1K1	A1 SECTION 330KV BUSBAR	H70524/2	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSYS1K1	A1 SECTION 330KV BUSBAR	H70525/1	A	\$234,000	-\$116,298	2052/53	\$1,868	\$13,266	No, NPV negative

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
CMSSYS1K1	A1 SECTION 330KV BUSBAR	H70525/1	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSYS1K1	A1 SECTION 330KV BUSBAR	H70526/1	A	\$234,000	-\$116,298	2052/53	\$1,868	\$13,266	No, NPV negative
CMSSYS1K1	A1 SECTION 330KV BUSBAR	H70526/1	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSYS1K2	A2 SECTION 330KV BUSBAR	B01507/1	A	\$234,000	-\$116,179	2052/53	\$1,873	\$13,266	No, NPV negative
CMSSYS1K2	A2 SECTION 330KV BUSBAR	B01507/1	B	\$36,289	-\$114,457	2052/53	\$702	\$2,057	No, NPV negative
CMSSYS1K2	A2 SECTION 330KV BUSBAR	B01511/1	A	\$234,000	-\$116,179	2052/53	\$1,873	\$13,266	No, NPV negative
CMSSYS1K2	A2 SECTION 330KV BUSBAR	B01511/1	B	\$36,289	-\$114,457	2052/53	\$702	\$2,057	No, NPV negative
CMSSYS1K2	A2 SECTION 330KV BUSBAR	H70524/3	A	\$234,000	-\$116,179	2052/53	\$1,873	\$13,266	No, NPV negative
CMSSYS1K2	A2 SECTION 330KV BUSBAR	H70524/3	B	\$36,289	-\$114,457	2052/53	\$702	\$2,057	No, NPV negative
CMSSYS1K2	A2 SECTION 330KV BUSBAR	H70526/2	A	\$234,000	-\$118,776	2052/53	\$1,712	\$13,266	No, NPV negative
CMSSYS1K2	A2 SECTION 330KV BUSBAR	H70526/2	B	\$36,289	-\$115,181	2052/53	\$654	\$2,057	No, NPV negative
CMSSYS1K2	A2 SECTION 330KV BUSBAR	H70527/1	A	\$234,000	-\$117,497	2052/53	\$1,791	\$13,266	No, NPV negative
CMSSYS1K2	A2 SECTION 330KV BUSBAR	H70527/1	B	\$36,289	-\$114,822	2052/53	\$678	\$2,057	No, NPV negative
CMSSYS1L1	B1 SECTION 330KV BUSBAR	H70520/3	A	\$234,000	-\$118,882	2052/53	\$1,708	\$13,266	No, NPV negative
CMSSYS1L1	B1 SECTION 330KV BUSBAR	H70520/3	B	\$36,289	-\$115,229	2052/53	\$651	\$2,057	No, NPV negative
CMSSYS1L1	B1 SECTION 330KV BUSBAR	H70522/3	A	\$234,000	-\$118,882	2052/53	\$1,708	\$13,266	No, NPV negative
CMSSYS1L1	B1 SECTION 330KV BUSBAR	H70522/3	B	\$36,289	-\$115,229	2052/53	\$651	\$2,057	No, NPV negative
CMSSYS1L1	B1 SECTION 330KV BUSBAR	H70523/2	A	\$234,000	-\$118,882	2052/53	\$1,708	\$13,266	No, NPV negative
CMSSYS1L1	B1 SECTION 330KV BUSBAR	H70523/2	B	\$36,289	-\$115,229	2052/53	\$651	\$2,057	No, NPV negative
CMSSYS1L2	B2 SECTION 330KV BUSBAR	B01507/2	A	\$234,000	\$498,522	2023/24	\$27,452	\$13,266	Yes, rank 1
CMSSYS1L2	B2 SECTION 330KV BUSBAR	B01507/2	B	\$36,289	\$160,481	2023/24	\$14,336	\$2,057	No, rank 2
CMSSYS1L2	B2 SECTION 330KV BUSBAR	H70518/2	A	\$234,000	\$498,522	2023/24	\$27,452	\$13,266	Yes, rank 1
CMSSYS1L2	B2 SECTION 330KV BUSBAR	H70518/2	B	\$36,289	\$160,481	2023/24	\$14,336	\$2,057	No, rank 2
CMSSYS1L2	B2 SECTION 330KV BUSBAR	H70518/3	A	\$234,000	\$498,522	2023/24	\$27,452	\$13,266	Yes, rank 1
CMSSYS1L2	B2 SECTION 330KV BUSBAR	H70518/3	B	\$36,289	\$160,481	2023/24	\$14,336	\$2,057	No, rank 2

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
CMSSYS1L2	B2 SECTION 330KV BUSBAR	H70519/1	A	\$234,000	\$431,598	2023/24	\$23,951	\$13,266	Yes, rank 1
CMSSYS1L2	B2 SECTION 330KV BUSBAR	H70519/1	B	\$36,289	\$137,396	2023/24	\$12,851	\$2,057	No, rank 2
CMSSYS1L2	B2 SECTION 330KV BUSBAR	H70520/2	A	\$234,000	\$498,522	2023/24	\$27,452	\$13,266	Yes, rank 1
CMSSYS1L2	B2 SECTION 330KV BUSBAR	H70520/2	B	\$36,289	\$160,481	2023/24	\$14,336	\$2,057	No, rank 2
CMSSYS1L2	B2 SECTION 330KV BUSBAR	H70523/1	A	\$234,000	\$464,422	2023/24	\$25,658	\$13,266	Yes, rank 1
CMSSYS1L2	B2 SECTION 330KV BUSBAR	H70523/1	B	\$36,289	\$148,812	2023/24	\$13,582	\$2,057	No, rank 2
CMSSYS1M	78 INGLEBURN 330KV CB & FEEDER BAY	H70516/1	A	\$234,000	-\$109,879	2052/53	\$2,103	\$13,266	No, NPV negative
CMSSYS1M	78 INGLEBURN 330KV CB & FEEDER BAY	H70516/1	B	\$36,289	-\$111,371	2052/53	\$847	\$2,057	No, NPV negative
CMSSYS1N1	12 LIVERPOOL 330KV FEEDER BAY	B01538/1	A	\$234,000	-\$111,073	2052/53	\$2,085	\$13,266	No, NPV negative
CMSSYS1N1	12 LIVERPOOL 330KV FEEDER BAY	B01538/1	B	\$36,289	-\$112,173	2052/53	\$815	\$2,057	No, NPV negative
CMSSYS1N1	12 LIVERPOOL 330KV FEEDER BAY	H70516/2	A	\$234,000	-\$114,203	2052/53	\$1,897	\$13,266	No, NPV negative
CMSSYS1N1	12 LIVERPOOL 330KV FEEDER BAY	H70516/2	B	\$36,289	-\$113,082	2052/53	\$755	\$2,057	No, NPV negative
CMSSYS1N1	12 LIVERPOOL 330KV FEEDER BAY	H70516/3	A	\$234,000	-\$111,073	2052/53	\$2,085	\$13,266	No, NPV negative
CMSSYS1N1	12 LIVERPOOL 330KV FEEDER BAY	H70516/3	B	\$36,289	-\$112,173	2052/53	\$815	\$2,057	No, NPV negative
CMSSYS1R	76 WALLERAWANG 330KV CB & FEEDER BAY	B01517/1	A	\$234,000	-\$116,298	2052/53	\$1,888	\$13,266	No, NPV negative
CMSSYS1R	76 WALLERAWANG 330KV CB & FEEDER BAY	B01517/1	B	\$36,289	-\$114,510	2052/53	\$700	\$2,057	No, NPV negative
CMSSYS2J	284 MENAI 132KV FEEDER BAY	H70644/1	A	\$189,000	-\$78,241	2052/53	\$2,275	\$10,715	No, NPV negative
CMSSYS2J	284 MENAI 132KV FEEDER BAY	H70644/1	B	\$45,707	-\$97,565	2052/53	\$917	\$2,591	No, NPV negative
CMSSYS2K1	NO1 132KV CAPACITOR BANK	H70592/2	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative
CMSSYS2K1	NO1 132KV CAPACITOR BANK	H70592/2	B	\$45,707	-\$102,753	2052/53	\$659	\$2,591	No, NPV negative
CMSSYS2K1	NO1 132KV CAPACITOR BANK	H70593/1	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative
CMSSYS2K1	NO1 132KV CAPACITOR BANK	H70593/1	B	\$45,707	-\$102,753	2052/53	\$659	\$2,591	No, NPV negative
CMSSYS2K2	912 PORT HACKING 132KV FEEDER BAY	H70643/2	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative
CMSSYS2K2	912 PORT HACKING 132KV FEEDER BAY	H70643/2	B	\$45,707	-\$102,753	2052/53	\$659	\$2,591	No, NPV negative

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
CMSSYS2L	916 KURNELL T CRONULLA 132KV FEEDER BAY	H70635/3	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative
CMSSYS2L	916 KURNELL T CRONULLA 132KV FEEDER BAY	H70635/3	B	\$45,707	-\$102,753	2052/53	\$659	\$2,591	No, NPV negative
CMSSYS2M	917 KURNELL T GILEY BAY 132KV FEEDER BAY	H70642/1	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative
CMSSYS2M	917 KURNELL T GILEY BAY 132KV FEEDER BAY	H70642/1	B	\$45,707	-\$102,753	2052/53	\$659	\$2,591	No, NPV negative
CMSSYS2Q1	A1 SECTION 132KV BUSBAR	H70603/1	A	\$189,000	\$2,917,970	2023/24	\$148,313	\$10,715	Yes, rank 1
CMSSYS2Q1	A1 SECTION 132KV BUSBAR	H70605/1	A	\$189,000	\$1,490,600	2023/24	\$67,558	\$10,715	Yes, rank 1
CMSSYS2Q1	A1 SECTION 132KV BUSBAR	H70605/1	B	\$45,707	\$604,131	2023/24	\$35,714	\$2,591	No, rank 2
CMSSYS2Q1	A1 SECTION 132KV BUSBAR	H70606/1	A	\$189,000	\$1,490,600	2023/24	\$67,558	\$10,715	Yes, rank 1
CMSSYS2Q1	A1 SECTION 132KV BUSBAR	H70606/1	B	\$45,707	\$604,131	2023/24	\$35,714	\$2,591	No, rank 2
CMSSYS2Q1	A1 SECTION 132KV BUSBAR	H70608/1	A	\$189,000	\$1,490,600	2023/24	\$67,558	\$10,715	Yes, rank 1
CMSSYS2Q1	A1 SECTION 132KV BUSBAR	H70608/1	B	\$45,707	\$604,131	2023/24	\$35,714	\$2,591	No, rank 2
CMSSYS2Q1	A1 SECTION 132KV BUSBAR	H70610/1	A	\$189,000	\$1,490,600	2023/24	\$67,558	\$10,715	Yes, rank 1
CMSSYS2Q1	A1 SECTION 132KV BUSBAR	H70610/1	B	\$45,707	\$604,131	2023/24	\$35,714	\$2,591	No, rank 2
CMSSYS2Q1	A1 SECTION 132KV BUSBAR	H70612/1	A	\$189,000	\$1,490,600	2023/24	\$67,558	\$10,715	Yes, rank 1
CMSSYS2Q1	A1 SECTION 132KV BUSBAR	H70612/1	B	\$45,707	\$604,131	2023/24	\$35,714	\$2,591	No, rank 2
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70591/1	A	\$189,000	\$21,875,447	2023/24	\$915,807	\$10,715	Yes, rank 1
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70591/1	B	\$45,707	\$9,721,668	2023/24	\$487,855	\$2,591	No, rank 2
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70613/1	A	\$189,000	\$21,875,447	2023/24	\$915,807	\$10,715	Yes, rank 1

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70613/1	B	\$45,707	\$9,721,668	2023/24	\$487,855	\$2,591	No, rank 2
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70614/1	A	\$189,000	\$21,875,447	2023/24	\$915,807	\$10,715	Yes, rank 1
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70614/1	B	\$45,707	\$9,721,668	2023/24	\$487,855	\$2,591	No, rank 2
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70619/1	A	\$189,000	\$21,875,447	2023/24	\$915,807	\$10,715	Yes, rank 1
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70619/1	B	\$45,707	\$9,721,668	2023/24	\$487,855	\$2,591	No, rank 2
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70630/3	A	\$189,000	\$21,875,447	2023/24	\$915,807	\$10,715	Yes, rank 1
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70630/3	B	\$45,707	\$9,721,668	2023/24	\$487,855	\$2,591	No, rank 2
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70632/3	A	\$189,000	\$21,875,447	2023/24	\$915,807	\$10,715	Yes, rank 1
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70632/3	B	\$45,707	\$9,721,668	2023/24	\$487,855	\$2,591	No, rank 2
CMSSYS2R1	B1 SECTION 132KV BUSBAR	H70623/1	A	\$189,000	\$8,358,347	2023/24	\$353,337	\$10,715	Yes, rank 1
CMSSYS2R1	B1 SECTION 132KV BUSBAR	H70623/1	B	\$45,707	\$3,675,870	2023/24	\$188,042	\$2,591	No, rank 2
CMSSYS2R1	B1 SECTION 132KV BUSBAR	H70628/3	A	\$189,000	\$8,358,347	2023/24	\$353,337	\$10,715	Yes, rank 1
CMSSYS2R1	B1 SECTION 132KV BUSBAR	H70628/3	B	\$45,707	\$3,675,870	2023/24	\$188,042	\$2,591	No, rank 2
CMSSYS2R1	B1 SECTION 132KV BUSBAR	H70629/1	A	\$189,000	\$8,358,347	2023/24	\$353,337	\$10,715	Yes, rank 1
CMSSYS2R1	B1 SECTION 132KV BUSBAR	H70629/1	B	\$45,707	\$3,675,870	2023/24	\$188,042	\$2,591	No, rank 2
CMSSYS2R1	B1 SECTION 132KV BUSBAR	H70629/2	A	\$189,000	\$8,358,347	2023/24	\$353,337	\$10,715	Yes, rank 1
CMSSYS2R1	B1 SECTION 132KV BUSBAR	H70629/2	B	\$45,707	\$3,675,870	2023/24	\$188,042	\$2,591	No, rank 2

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
CMSSYS2R1	B1 SECTION 132KV BUSBAR	H70633/1	A	\$189,000	\$8,358,347	2023/24	\$353,337	\$10,715	Yes, rank 1
CMSSYS2R1	B1 SECTION 132KV BUSBAR	H70633/1	B	\$45,707	\$3,675,870	2023/24	\$188,042	\$2,591	No, rank 2
CMSSYS2R2	B2 SECTION 132KV BUSBAR	EC00001458	B	\$45,707	\$5,474,760	2023/24	\$229,242	\$2,591	Yes, rank 1
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70599/1	A	\$189,000	\$21,875,447	2023/24	\$915,807	\$10,715	Yes, rank 1
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70599/1	B	\$45,707	\$9,721,668	2023/24	\$487,855	\$2,591	No, rank 2
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70601/2	A	\$189,000	\$21,875,447	2023/24	\$915,807	\$10,715	Yes, rank 1
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70601/2	B	\$45,707	\$9,721,668	2023/24	\$487,855	\$2,591	No, rank 2
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70618/1	A	\$189,000	\$21,875,447	2023/24	\$915,807	\$10,715	Yes, rank 1
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70618/1	B	\$45,707	\$9,721,668	2023/24	\$487,855	\$2,591	No, rank 2
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70620/1	A	\$189,000	\$21,875,447	2023/24	\$915,807	\$10,715	Yes, rank 1
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70620/1	B	\$45,707	\$9,721,668	2023/24	\$487,855	\$2,591	No, rank 2
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70631/2	A	\$189,000	\$21,875,447	2023/24	\$915,807	\$10,715	Yes, rank 1
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70631/2	B	\$45,707	\$9,721,668	2023/24	\$487,855	\$2,591	No, rank 2
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70632/1	A	\$189,000	\$21,875,447	2023/24	\$915,807	\$10,715	Yes, rank 1
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70632/1	B	\$45,707	\$9,721,668	2023/24	\$487,855	\$2,591	No, rank 2
CMSSYS2S	282 MILPERRA TEE 132KV FEEDER BAY	H70639/1	A	\$189,000	-\$82,483	2052/53	\$2,099	\$10,715	No, NPV negative
CMSSYS2S	282 MILPERRA TEE 132KV FEEDER BAY	H70639/1	B	\$45,707	-\$99,462	2052/53	\$823	\$2,591	No, NPV negative
CMSSYS2T	283 MILPERRA TEE 132KV FEEDER BAY	H70630/1	A	\$189,000	-\$82,483	2052/53	\$2,099	\$10,715	No, NPV negative
CMSSYS2T	283 MILPERRA TEE 132KV FEEDER BAY	H70630/1	B	\$45,707	-\$99,462	2052/53	\$823	\$2,591	No, NPV negative

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
CMSSYS2U	911 CHULLORA TEE 132KV FEEDER BAY	H70637/1	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative
CMSSYS2U	911 CHULLORA TEE 132KV FEEDER BAY	H70637/1	B	\$45,707	-\$102,753	2052/53	\$659	\$2,591	No, NPV negative
CMSSYS2V	910 CHULLORA TEE 132KV FEEDER BAY	H70636/1	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative
CMSSYS2V	910 CHULLORA TEE 132KV FEEDER BAY	H70636/1	B	\$45,707	-\$102,753	2052/53	\$659	\$2,591	No, NPV negative
CMSSYS2W	914 BANKSTOWN 132KV FEEDER BAY	H70635/2	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative
CMSSYS2W	914 BANKSTOWN 132KV FEEDER BAY	H70635/2	B	\$45,707	-\$102,753	2052/53	\$659	\$2,591	No, NPV negative
CMSSYS2X	915 BANKSTOWN 132KV FEEDER BAY	H70635/1	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative
CMSSYS2X	915 BANKSTOWN 132KV FEEDER BAY	H70635/1	B	\$45,707	-\$102,753	2052/53	\$659	\$2,591	No, NPV negative
CMSSYW1G	39 BANNABY 330KV FEEDER BAY	A03011/4	A	\$234,000	-\$102,641	2052/53	\$2,734	\$13,266	No, NPV negative
CMSSYW1H1	32 BAYSWATER 330KV FEEDER BAY	A03010/8	A	\$234,000	-\$102,612	2052/53	\$2,735	\$13,266	No, NPV negative
CMSSYW1J1	A1 SECTION 330KV BUSBAR	A03010/9	A	\$234,000	-\$102,641	2052/53	\$2,734	\$13,266	No, NPV negative
CMSSYW1J1	A1 SECTION 330KV BUSBAR	A03011/5	A	\$234,000	-\$102,641	2052/53	\$2,734	\$13,266	No, NPV negative
CMSSYW1J2	A2 SECTION 330KV BUSBAR	A03010/6	A	\$234,000	\$4,509,895	2023/24	\$217,640	\$13,266	Yes, rank 1
CMSSYW1K1	B1 SECTION 330KV BUSBAR	A03011/1	A	\$234,000	\$3,171,385	2023/24	\$155,276	\$13,266	Yes, rank 1
CMSSYW1K2	B2 SECTION 330KV BUSBAR	A03010/4	A	\$234,000	-\$102,641	2052/53	\$2,734	\$13,266	No, NPV negative
CMSSYW1K2	B2 SECTION 330KV BUSBAR	A03010/7	A	\$234,000	-\$104,329	2052/53	\$2,625	\$13,266	No, NPV negative
CMSSYW1K2	B2 SECTION 330KV BUSBAR	A03045/1	A	\$234,000	-\$107,575	2052/53	\$2,417	\$13,266	No, NPV negative
CMSSYW1L1	26 MUNMORAH 330KV FEEDER BAY	A03010/5	A	\$234,000	-\$102,641	2052/53	\$2,734	\$13,266	No, NPV negative
CMSSYW1L1	26 MUNMORAH 330KV FEEDER BAY	A03041/2	A	\$234,000	-\$102,641	2052/53	\$2,734	\$13,266	No, NPV negative
CMSSYW1M	29 VINEYARD 330KV FEEDER BAY	A03039/1	A	\$234,000	-\$72,925	2052/53	\$3,977	\$13,266	No, NPV negative
CMSSYW1N	20 SYDNEY NORTH 330KV FEEDER BAY	A03010/3	A	\$234,000	-\$102,641	2052/53	\$2,734	\$13,266	No, NPV negative
CMSSYW2N1	A1 SECTION 132KV BUSBAR	A03080/5	A	\$189,000	\$12,843,030	2023/24	\$555,084	\$10,715	Yes, rank 1
CMSSYW2N1	A1 SECTION 132KV BUSBAR	A03082/3	A	\$189,000	\$18,235,442	2023/24	\$855,819	\$10,715	Yes, rank 1
CMSSYW2N2	A2 SECTION 132KV BUSBAR	A03063/4	A	\$189,000	\$23,585,557	2023/24	\$1,014,625	\$10,715	Yes, rank 1
CMSSYW2N2	A2 SECTION 132KV BUSBAR	A03063/4	B	\$32,375	\$10,229,247	2023/24	\$525,544	\$1,835	No, rank 2

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
CMSSYW2N2	A2 SECTION 132KV BUSBAR	A03064/1	A	\$189,000	\$23,585,557	2023/24	\$1,014,625	\$10,715	Yes, rank 1
CMSSYW2N2	A2 SECTION 132KV BUSBAR	A03064/1	B	\$32,375	\$10,229,247	2023/24	\$525,544	\$1,835	No, rank 2
CMSSYW2N2	A2 SECTION 132KV BUSBAR	A03080/7	A	\$189,000	\$23,585,557	2023/24	\$1,014,625	\$10,715	Yes, rank 1
CMSSYW2P1	B1 SECTION 132KV BUSBAR	A03082/5	A	\$189,000	\$260,825	2023/24	\$18,352	\$10,715	Yes, rank 1
CMSSYW2P1	B1 SECTION 132KV BUSBAR	EC00007668	B	\$32,375	-\$48,459	2023/24	\$2,322	\$1,835	No, NPV negative
CMSSYW2P2	B2 SECTION 132KV BUSBAR	A03063/3	A	\$189,000	\$9,571,810	2023/24	\$415,148	\$10,715	Yes, rank 1
CMSSYW2P2	B2 SECTION 132KV BUSBAR	A03063/3	B	\$32,375	\$4,118,968	2023/24	\$214,853	\$1,835	No, rank 2
CMSSYW2P2	B2 SECTION 132KV BUSBAR	A03082/1	A	\$189,000	\$9,571,810	2023/24	\$415,148	\$10,715	Yes, rank 1
CMSSYW2W	932 MT. DRUITT 132KV FEEDER BAY	B01936/1	A	\$189,000	-\$87,302	2052/53	\$1,953	\$10,715	No, NPV negative
CMSSYW2W	932 MT. DRUITT 132KV FEEDER BAY	B01936/1	B	\$42,666	-\$99,915	2052/53	\$706	\$2,419	No, NPV negative
COSBER2G	94M MT PIPER TEE MUDGEE 132KV FEEDER BAY	B01309/2	A	\$189,000	-\$83,387	2052/53	\$2,000	\$10,715	No, NPV negative
COSBER2G	94M MT PIPER TEE MUDGEE 132KV FEEDER BAY	B01309/2	B	\$42,666	-\$97,184	2052/53	\$812	\$2,419	No, NPV negative
COSBER2H1	2 SECTION 132KV BUSBAR	B01309/5	A	\$189,000	\$18,952,702	2023/24	\$771,200	\$10,715	Yes, rank 1
COSBER2H1	2 SECTION 132KV BUSBAR	B01309/5	B	\$42,666	\$8,638,825	2023/24	\$422,687	\$2,419	No, rank 2
COSBER2H1	2 SECTION 132KV BUSBAR	B01309/8	A	\$189,000	\$18,952,702	2023/24	\$771,200	\$10,715	Yes, rank 1
COSBER2H1	2 SECTION 132KV BUSBAR	B01309/8	B	\$42,666	\$8,638,825	2023/24	\$422,687	\$2,419	No, rank 2
COSBER2H2	3 SECTION 132KV BUSBAR	B01309/3	A	\$189,000	\$18,952,702	2023/24	\$771,200	\$10,715	Yes, rank 1
COSBER2H2	3 SECTION 132KV BUSBAR	B01309/3	B	\$42,666	\$8,638,825	2023/24	\$422,687	\$2,419	No, rank 2
COSBER2H2	3 SECTION 132KV BUSBAR	B01309/6	A	\$189,000	\$18,952,702	2023/24	\$771,200	\$10,715	Yes, rank 1

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
COSBER2H2	3 SECTION 132KV BUSBAR	B01309/6	B	\$42,666	\$8,638,825	2023/24	\$422,687	\$2,419	No, rank 2
COSBER2H2	3 SECTION 132KV BUSBAR	B01309/7	A	\$189,000	\$18,952,702	2023/24	\$771,200	\$10,715	Yes, rank 1
COSBER2H2	3 SECTION 132KV BUSBAR	B01309/7	B	\$42,666	\$8,638,825	2023/24	\$422,687	\$2,419	No, rank 2
COSBER2J	94B WELLINGTON 132KV FEEDER BAY	B01309/4	A	\$189,000	-\$76,063	2052/53	\$2,296	\$10,715	No, NPV negative
COSBER2J	94B WELLINGTON 132KV FEEDER BAY	B01309/4	B	\$42,666	-\$93,823	2052/53	\$974	\$2,419	No, NPV negative
COSBER4N2	851 MUDGEE TEE GULGONG 66KV FEEDER BAY	EC00004689	A	\$143,000	-\$60,318	2052/53	\$1,765	\$8,107	No, NPV negative
COSBER4Q2	3 SECTION 66KV BUSBAR	EC00005456	A	\$143,000	\$271,999	2023/24	\$15,193	\$8,107	Yes, rank 1
COSBER4S2	852 DUNEDOO 66KV FEEDER BAY	EC00005455	A	\$143,000	-\$62,998	2052/53	\$1,656	\$8,107	No, NPV negative
COSCW22BB 3	3 SECTION 132KV BUSBAR	A01124/2	A	\$189,000	\$8,319,326	2023/24	\$375,793	\$10,715	Yes, rank 1
COSCW22BB 3	3 SECTION 132KV BUSBAR	A01124/2	B	\$42,666	\$3,428,728	2023/24	\$186,557	\$2,419	No, rank 2
COSCW22BB 3	3 SECTION 132KV BUSBAR	A01124/4	A	\$189,000	\$8,319,326	2023/24	\$375,793	\$10,715	Yes, rank 1
COSCW22BB 3	3 SECTION 132KV BUSBAR	A01124/4	B	\$42,666	\$3,428,728	2023/24	\$186,557	\$2,419	No, rank 2
COSCW22BB 5	5 SECTION 132KV BUSBAR	A01124/5	A	\$189,000	\$8,319,326	2023/24	\$375,793	\$10,715	Yes, rank 1
COSCW22BB 5	5 SECTION 132KV BUSBAR	A01124/5	B	\$42,666	\$3,428,728	2023/24	\$186,557	\$2,419	No, rank 2
COSCW22BB 5	5 SECTION 132KV BUSBAR	A01124/6	A	\$189,000	\$8,319,326	2023/24	\$375,793	\$10,715	Yes, rank 1
COSCW22BB 5	5 SECTION 132KV BUSBAR	A01124/6	B	\$42,666	\$3,428,728	2023/24	\$186,557	\$2,419	No, rank 2
COSCW22H	973 YASS 330 - 132KV FEEDER BAY	A01124/1	A	\$189,000	-\$81,480	2052/53	\$2,291	\$10,715	No, NPV negative
COSCW22H	973 YASS 330 - 132KV FEEDER BAY	A01124/1	B	\$42,666	-\$98,130	2052/53	\$817	\$2,419	No, NPV negative
COSCW22K	998 FORBES 132KV FEEDER BAY	A01124/7	A	\$189,000	-\$80,070	2052/53	\$2,354	\$10,715	No, NPV negative
COSCW22K	998 FORBES 132KV FEEDER BAY	A01124/7	B	\$42,666	-\$97,538	2052/53	\$849	\$2,419	No, NPV negative

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
COSCW24H	891 YOUNG T WYANGALA/MONTEAGLE 66KV FDR	A01135/1	A	\$143,000	-\$52,755	2052/53	\$2,284	\$8,107	No, NPV negative
COSCW24J	866 COWRA TOWN 66KV FEEDER BAY	A01135/3	A	\$143,000	-\$52,473	2052/53	\$2,296	\$8,107	No, NPV negative
COSCW24K1	1 SECTION 66KV BUSBAR	A01134/1	A	\$143,000	\$8,345,821	2023/24	\$375,687	\$8,107	Yes, rank 1
COSCW24K1	1 SECTION 66KV BUSBAR	A01134/3	A	\$143,000	\$8,345,821	2023/24	\$375,687	\$8,107	Yes, rank 1
COSCW24K1	1 SECTION 66KV BUSBAR	A01134/5	A	\$143,000	\$8,345,821	2023/24	\$375,687	\$8,107	Yes, rank 1
COSCW24K1	1 SECTION 66KV BUSBAR	A01134/7	A	\$143,000	\$8,345,821	2023/24	\$375,687	\$8,107	Yes, rank 1
COSCW24K1	1 SECTION 66KV BUSBAR	A01134/9	A	\$143,000	\$8,345,821	2023/24	\$375,687	\$8,107	Yes, rank 1
COSCW24K1	1 SECTION 66KV BUSBAR	A01135/2	A	\$143,000	\$8,345,821	2023/24	\$375,687	\$8,107	Yes, rank 1
COSCW24K2	2 SECTION 66KV BUSBAR	A01134/2	A	\$143,000	\$8,345,821	2023/24	\$375,687	\$8,107	Yes, rank 1
COSCW24K2	2 SECTION 66KV BUSBAR	A01134/4	A	\$143,000	\$8,345,821	2023/24	\$375,687	\$8,107	Yes, rank 1
COSCW24K2	2 SECTION 66KV BUSBAR	A01134/6	A	\$143,000	\$8,345,821	2023/24	\$375,687	\$8,107	Yes, rank 1
COSCW24K2	2 SECTION 66KV BUSBAR	A01135/4	A	\$143,000	\$8,345,821	2023/24	\$375,687	\$8,107	Yes, rank 1
COSCW24K2	2 SECTION 66KV BUSBAR	A01135/6	A	\$143,000	\$8,345,821	2023/24	\$375,687	\$8,107	Yes, rank 1
COSCW24K2	2 SECTION 66KV BUSBAR	A01135/8	A	\$143,000	\$8,345,821	2023/24	\$375,687	\$8,107	Yes, rank 1
COSCW24L2	863 CANOWINDRA 66KV FEEDER BAY	A01135/5	A	\$143,000	\$1,956,284	2023/24	\$91,606	\$8,107	Yes, rank 1
COSCW24L2	863 CANOWINDRA 66KV FEEDER BAY	A01136/1	A	\$143,000	\$1,956,284	2023/24	\$91,606	\$8,107	Yes, rank 1
COSCW24M2	865 COWRA TOWN 66KV FEEDER BAY	A01135/7	A	\$143,000	-\$52,473	2052/53	\$2,296	\$8,107	No, NPV negative
COSCW24N	893/1 GRENFELL TEE 66KV FEEDER BAY	A01135/9	A	\$143,000	-\$56,720	2052/53	\$2,107	\$8,107	No, NPV negative
COSFB22H1	2 SECTION 132KV BUSBAR	A01223/1	A	\$189,000	\$8,539,655	2023/24	\$385,589	\$10,715	Yes, rank 1

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
COSFB22H1	2 SECTION 132KV BUSBAR	A01223/1	B	\$42,666	\$3,521,227	2023/24	\$191,429	\$2,419	No, rank 2
COSFB22H1	2 SECTION 132KV BUSBAR	A01223/2	A	\$189,000	\$8,539,655	2023/24	\$385,589	\$10,715	Yes, rank 1
COSFB22H1	2 SECTION 132KV BUSBAR	A01223/2	B	\$42,666	\$3,521,227	2023/24	\$191,429	\$2,419	No, rank 2
COSFB22H2	1 SECTION 132KV BUSBAR	A01223/3	A	\$189,000	\$8,539,655	2023/24	\$385,589	\$10,715	Yes, rank 1
COSFB22H2	1 SECTION 132KV BUSBAR	A01223/3	B	\$42,666	\$3,521,227	2023/24	\$191,429	\$2,419	No, rank 2
COSFB22H2	1 SECTION 132KV BUSBAR	A01223/4	A	\$189,000	\$8,539,655	2023/24	\$385,589	\$10,715	Yes, rank 1
COSFB22H2	1 SECTION 132KV BUSBAR	A01223/4	B	\$42,666	\$3,521,227	2023/24	\$191,429	\$2,419	No, rank 2
COSFB22H2	1 SECTION 132KV BUSBAR	A01223/5	A	\$189,000	\$8,539,655	2023/24	\$385,589	\$10,715	Yes, rank 1
COSFB22H2	1 SECTION 132KV BUSBAR	A01223/5	B	\$42,666	\$3,521,227	2023/24	\$191,429	\$2,419	No, rank 2
COSFB22J	998 COWRA 132KV FEEDER BAY	A01223/6	A	\$189,000	-\$80,070	2052/53	\$2,354	\$10,715	No, NPV negative
COSFB22J	998 COWRA 132KV FEEDER BAY	A01223/6	B	\$42,666	-\$97,538	2052/53	\$849	\$2,419	No, NPV negative
COSFB24N2	89H WEST JEMALONG 66KV FEEDER BAY	EC00010348	A	\$143,000	-\$53,781	2052/53	\$2,238	\$8,107	No, NPV negative
COSFB24P	859 FORBES TOWN 66KV FEEDER BAY	EC00009952	A	\$143,000	-\$53,882	2052/53	\$2,233	\$8,107	No, NPV negative
COSFB24Q1	2 SECTION 66KV BUSBAR	A01202/5	A	\$143,000	\$8,566,149	2023/24	\$385,483	\$8,107	Yes, rank 1
COSFB24Q1	2 SECTION 66KV BUSBAR	A01203/5	A	\$143,000	\$8,566,149	2023/24	\$385,483	\$8,107	Yes, rank 1
COSFB24Q1	2 SECTION 66KV BUSBAR	A01203/6	A	\$143,000	\$8,566,149	2023/24	\$385,483	\$8,107	Yes, rank 1
COSFB24Q1	2 SECTION 66KV BUSBAR	A01203/7	A	\$143,000	\$8,566,149	2023/24	\$385,483	\$8,107	Yes, rank 1
COSFB24Q1	2 SECTION 66KV BUSBAR	A01204/2	A	\$143,000	\$8,566,149	2023/24	\$385,483	\$8,107	Yes, rank 1
COSFB24Q2	1 SECTION 66KV BUSBAR	A01202/7	A	\$143,000	\$8,566,149	2023/24	\$385,483	\$8,107	Yes, rank 1

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
COSFB24Q2	1 SECTION 66KV BUSBAR	A01202/8	A	\$143,000	\$8,566,149	2023/24	\$385,483	\$8,107	Yes, rank 1
COSFB24Q2	1 SECTION 66KV BUSBAR	A01203/1	A	\$143,000	\$8,566,149	2023/24	\$385,483	\$8,107	Yes, rank 1
COSFB24Q2	1 SECTION 66KV BUSBAR	A01203/2	A	\$143,000	\$8,566,149	2023/24	\$385,483	\$8,107	Yes, rank 1
COSFB24Q2	1 SECTION 66KV BUSBAR	A01203/3	A	\$143,000	\$8,566,149	2023/24	\$385,483	\$8,107	Yes, rank 1
COSFB24Q2	1 SECTION 66KV BUSBAR	A01203/4	A	\$143,000	\$8,566,149	2023/24	\$385,483	\$8,107	Yes, rank 1
COSFB24Q2	1 SECTION 66KV BUSBAR	EC00009953	A	\$143,000	\$8,566,149	2023/24	\$385,483	\$8,107	Yes, rank 1
COSFB24S2	896 WEST JEMALONG 66KV FEEDER BAY	A01204/4	A	\$143,000	-\$53,781	2052/53	\$2,238	\$8,107	No, NPV negative
COSFB24T	858 FORBES TOWN 66KV FEEDER BAY	A01202/9	A	\$143,000	-\$53,882	2052/53	\$2,233	\$8,107	No, NPV negative
COSFB24U	893/5 PAYTENS BRIDGE 66KV FEEDER BAY	EC00009951	A	\$143,000	-\$55,633	2052/53	\$2,156	\$8,107	No, NPV negative
COSWL12BB	B SECTION 132KV BUSBAR	EC00002810	A	\$189,000	\$849,280	2023/24	\$38,462	\$10,715	Yes, rank 1
COSWL12BB	B SECTION 132KV BUSBAR	EC00002810	B	\$42,666	\$342,640	2023/24	\$21,443	\$2,419	No, rank 2
COSWL12BB	B SECTION 132KV BUSBAR	EC00002812	A	\$189,000	\$849,280	2023/24	\$38,462	\$10,715	Yes, rank 1
COSWL12BB	B SECTION 132KV BUSBAR	EC00002812	B	\$42,666	\$342,640	2023/24	\$21,443	\$2,419	No, rank 2
COSWL12BB	B SECTION 132KV BUSBAR	EC00002961	A	\$189,000	\$849,280	2023/24	\$38,462	\$10,715	Yes, rank 1
COSWL12BB	B SECTION 132KV BUSBAR	EC00002961	B	\$42,666	\$342,640	2023/24	\$21,443	\$2,419	No, rank 2
COSWL12BB	B SECTION 132KV BUSBAR	EC00002971	A	\$189,000	\$849,280	2023/24	\$38,462	\$10,715	Yes, rank 1
COSWL12BB	B SECTION 132KV BUSBAR	EC00002971	B	\$42,666	\$342,640	2023/24	\$21,443	\$2,419	No, rank 2
COSWL12BB	B SECTION 132KV BUSBAR	EC00002974	A	\$189,000	\$849,280	2023/24	\$38,462	\$10,715	Yes, rank 1
COSWL12BB	B SECTION 132KV BUSBAR	EC00002974	B	\$42,666	\$342,640	2023/24	\$21,443	\$2,419	No, rank 2

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
COSWL12D	94J DUBBO 132KV FEEDER BAY	EC00002960	A	\$189,000	-\$69,857	2052/53	\$2,466	\$10,715	No, NPV negative
COSWL12D	94J DUBBO 132KV FEEDER BAY	EC00002960	B	\$42,666	-\$90,272	2050/51	\$1,119	\$2,419	No, NPV negative
COSWL12E	94B BERYL 132KV FEEDER BAY	EC00002962	A	\$189,000	-\$80,065	2052/53	\$2,067	\$10,715	No, NPV negative
COSWL12E	94B BERYL 132KV FEEDER BAY	EC00002962	B	\$42,666	-\$95,080	2052/53	\$893	\$2,419	No, NPV negative
COSWL12K	94K PARKES 132KV FEEDER BAY	EC00002966	A	\$189,000	-\$94,469	2052/53	\$1,503	\$10,715	No, NPV negative
COSWL12K	94K PARKES 132KV FEEDER BAY	EC00002966	B	\$42,666	-\$101,864	2052/53	\$575	\$2,419	No, NPV negative
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002809	A	\$189,000	\$849,280	2023/24	\$38,46 <sup>2</sup>	\$10,715	Yes, rank 1
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002809	B	\$42,666	\$342,640	2023/24	\$21,44 <sup>3</sup>	\$2,419	No, rank 2
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002963	A	\$189,000	\$849,280	2023/24	\$38,46 <sup>2</sup>	\$10,715	Yes, rank 1
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002963	B	\$42,666	\$342,640	2023/24	\$21,44 <sup>3</sup>	\$2,419	No, rank 2
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002964	A	\$189,000	\$849,280	2023/24	\$38,46 <sup>2</sup>	\$10,715	Yes, rank 1
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002964	B	\$42,666	\$342,640	2023/24	\$21,44 <sup>3</sup>	\$2,419	No, rank 2
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002965	A	\$189,000	\$849,280	2023/24	\$38,46 <sup>2</sup>	\$10,715	Yes, rank 1
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002965	B	\$42,666	\$342,640	2023/24	\$21,44 <sup>3</sup>	\$2,419	No, rank 2
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002972	A	\$189,000	\$849,280	2023/24	\$38,46 <sup>2</sup>	\$10,715	Yes, rank 1
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002972	B	\$42,666	\$342,640	2023/24	\$21,44 <sup>3</sup>	\$2,419	No, rank 2
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002973	A	\$189,000	\$849,280	2023/24	\$38,46 <sup>2</sup>	\$10,715	Yes, rank 1
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002973	B	\$42,666	\$342,640	2023/24	\$21,44 <sup>3</sup>	\$2,419	No, rank 2
COSWL12L2	A2 SECTION 132KV BUSBAR	EC00002811	A	\$189,000	\$2,058,300	2023/24	\$85,81 <sup>0</sup>	\$10,715	Yes, rank 1
COSWL12L2	A2 SECTION 132KV BUSBAR	EC00002811	B	\$42,666	\$912,086	2023/24	\$48,17 <sup>6</sup>	\$2,419	No, rank 2

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COSWL12L2	A2 SECTION 132KV BUSBAR	EC00002814	A	\$189,000	\$2,058,300	2023/24	\$85,810	\$10,715	Yes, rank 1
COSWL12L2	A2 SECTION 132KV BUSBAR	EC00002814	B	\$42,666	\$912,086	2023/24	\$48,176	\$2,419	No, rank 2
COSWL12L2	A2 SECTION 132KV BUSBAR	EC00002967	A	\$189,000	\$2,058,300	2023/24	\$85,810	\$10,715	Yes, rank 1
COSWL12L2	A2 SECTION 132KV BUSBAR	EC00002967	B	\$42,666	\$912,086	2023/24	\$48,176	\$2,419	No, rank 2
COSWL12L2	A2 SECTION 132KV BUSBAR	EC00002969	A	\$189,000	\$2,058,300	2023/24	\$85,810	\$10,715	Yes, rank 1
COSWL12L2	A2 SECTION 132KV BUSBAR	EC00002969	B	\$42,666	\$912,086	2023/24	\$48,176	\$2,419	No, rank 2
COSWL12L2	A2 SECTION 132KV BUSBAR	EC00002975	A	\$189,000	\$2,058,300	2023/24	\$85,810	\$10,715	Yes, rank 1
COSWL12L2	A2 SECTION 132KV BUSBAR	EC00002975	B	\$42,666	\$912,086	2023/24	\$48,176	\$2,419	No, rank 2
COSWL12M	9GY DUBBO SOUTH 132KV FEEDER BAY	EC00002968	A	\$189,000	-\$94,490	2052/53	\$1,502	\$10,715	No, NPV negative
COSWL12M	9GY DUBBO SOUTH 132KV FEEDER BAY	EC00002968	B	\$42,666	-\$101,874	2052/53	\$574	\$2,419	No, NPV negative
COSWL12R	945 MOLONG TEE WELTON TWN 132KV FDR BAY	EC00008788	A	\$189,000	-\$92,830	2052/53	\$1,567	\$10,715	No, NPV negative
COSWL12R	945 MOLONG TEE WELTON TWN 132KV FDR BAY	EC00008788	B	\$42,666	-\$101,093	2052/53	\$611	\$2,419	No, NPV negative
COSWL12T	947 ORANGE NORTH TEE B'DONG 132 FDR BAY	EC00002813	A	\$189,000	-\$94,490	2052/53	\$1,502	\$10,715	No, NPV negative
COSWL12T	947 ORANGE NORTH TEE B'DONG 132 FDR BAY	EC00002813	B	\$42,666	-\$101,874	2052/53	\$574	\$2,419	No, NPV negative
NNSKS22BB3	NO3 SECTION 132KV BUSBAR	A08605/2	A	\$189,000	\$229,229	2023/24	\$16,690	\$10,715	Yes, rank 1
NNSKS22H	9W2 RALEIGH 132KV FEEDER	EC00012517	B	\$42,666	-\$103,378	2052/53	\$473	\$2,419	No, NPV negative
NNSKS22K	9W9 PT MACQUARIE 132KV FEEDER	A08605/4	A	\$189,000	-\$78,777	2052/53	\$2,500	\$10,715	No, NPV negative
NNSMRK2G1	NO1 SECTION 132KV BUSBAR	EC00003084	B	\$42,666	\$274,891	2023/24	\$16,875	\$2,419	Yes, rank 1
NNSMRK2G1	NO1 SECTION 132KV BUSBAR	EC00003096	B	\$42,666	\$274,891	2023/24	\$16,875	\$2,419	Yes, rank 1

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
NNSTGH2E	958 GOSFORD 132KV FEEDER	EC00009241	B	\$42,666	-\$103,340	2052/53	\$480	\$2,419	No, NPV negative
NNSTGH2F	BERKELEY VALE 954 132KV FEEDER	EC00009232	B	\$42,666	-\$102,206	2052/53	\$529	\$2,419	No, NPV negative
NNSTGH2H1	NO1 SECTION 132KV BUSBAR	EC00009225	B	\$42,666	\$3,281,556	2023/24	\$147,208	\$2,419	Yes, rank 1
NNSTGH2H1	NO1 SECTION 132KV BUSBAR	EC00009226	B	\$42,666	\$3,281,556	2023/24	\$147,208	\$2,419	Yes, rank 1
NNSTGH2H1	NO1 SECTION 132KV BUSBAR	EC00009227	B	\$42,666	\$3,281,556	2023/24	\$147,208	\$2,419	Yes, rank 1
NNSTRE2BA1	SECTION X 132KV A BUSBAR	A09069/1	B	\$42,666	\$5,450,702	2023/24	\$232,622	\$2,419	Yes, rank 1
NNSTRE2BA1	SECTION X 132KV A BUSBAR	A09069/6	A	\$189,000	\$20,648,724	2023/24	\$864,761	\$10,715	Yes, rank 1
NNSTRE2BA1	SECTION X 132KV A BUSBAR	A09069/6	B	\$42,666	\$9,175,153	2023/24	\$460,646	\$2,419	No, rank 2
NNSTRE2BA1	SECTION X 132KV A BUSBAR	A09069/9	A	\$189,000	\$21,798,501	2023/24	\$925,494	\$10,715	Yes, rank 1
NNSTRE2BA1	SECTION X 132KV A BUSBAR	A09069/9	B	\$42,666	\$9,565,031	2023/24	\$486,109	\$2,419	No, rank 2
NNSTRE2BA2	SECTION Y 132KV A BUSBAR	A09070/7	A	\$189,000	\$22,991,537	2023/24	\$989,214	\$10,715	Yes, rank 1
NNSTRE2BA2	SECTION Y 132KV A BUSBAR	A09070/7	B	\$42,666	\$9,962,928	2023/24	\$512,374	\$2,419	No, rank 2
NNSTRE2BA2	SECTION Y 132KV A BUSBAR	A09071/1	A	\$189,000	\$21,798,501	2023/24	\$925,494	\$10,715	Yes, rank 1
NNSTRE2BA2	SECTION Y 132KV A BUSBAR	A09071/1	B	\$42,666	\$9,565,031	2023/24	\$486,109	\$2,419	No, rank 2
NNSTRE2BA2	SECTION Y 132KV A BUSBAR	A09071/5	A	\$189,000	\$21,798,501	2023/24	\$925,494	\$10,715	Yes, rank 1
NNSTRE2BA2	SECTION Y 132KV A BUSBAR	A09071/5	B	\$42,666	\$9,565,031	2023/24	\$486,109	\$2,419	No, rank 2
NNSTRE2BB1	SECTION X 132KV B BUSBAR	A09069/2	A	\$189,000	\$21,798,501	2023/24	\$925,494	\$10,715	Yes, rank 1
NNSTRE2BB1	SECTION X 132KV B BUSBAR	A09069/2	B	\$42,666	\$9,565,031	2023/24	\$486,109	\$2,419	No, rank 2
NNSTRE2BB1	SECTION X 132KV B BUSBAR	A09069/8	A	\$189,000	\$21,798,501	2023/24	\$925,494	\$10,715	Yes, rank 1

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
NNSTRE2BB1	SECTION X 132KV B BUSBAR	A09069/8	B	\$42,666	\$9,565,031	2023/24	\$486,109	\$2,419	No, rank 2
NNSTRE2BB1	SECTION X 132KV B BUSBAR	A09070/1	A	\$189,000	\$21,798,501	2023/24	\$925,494	\$10,715	Yes, rank 1
NNSTRE2BB1	SECTION X 132KV B BUSBAR	A09070/1	B	\$42,666	\$9,565,031	2023/24	\$486,109	\$2,419	No, rank 2
NNSTRE2BB3	SECTION Z 132KV B BUSBAR	A09071/2	A	\$189,000	\$21,798,501	2023/24	\$925,494	\$10,715	Yes, rank 1
NNSTRE2BB3	SECTION Z 132KV B BUSBAR	A09071/2	B	\$42,666	\$9,565,031	2023/24	\$486,109	\$2,419	No, rank 2
NNSTRE2BB3	SECTION Z 132KV B BUSBAR	A09071/3	A	\$189,000	\$21,798,501	2023/24	\$925,494	\$10,715	Yes, rank 1
NNSTRE2BB3	SECTION Z 132KV B BUSBAR	A09071/3	B	\$42,666	\$9,565,031	2023/24	\$486,109	\$2,419	No, rank 2
NNSTRE2BB3	SECTION Z 132KV B BUSBAR	A09072/4	A	\$189,000	\$31,094,823	2023/24	\$1,438,669	\$10,715	Yes, rank 1
NNSTRE2E	96P STROUD 132KV FEEDER	A09069/5	A	\$189,000	-\$89,835	2052/53	\$1,793	\$10,715	No, NPV negative
NNSTRE2E	96P STROUD 132KV FEEDER	A09069/5	B	\$42,666	-\$100,589	2052/53	\$660	\$2,419	No, NPV negative
NNSTRE2H	963 TOMAGO 330 TEE HAWKS NEST 132KV FDR	A09069/4	A	\$189,000	-\$85,532	2052/53	\$2,029	\$10,715	No, NPV negative
NNSTRE2H	963 TOMAGO 330 TEE HAWKS NEST 132KV FDR	A09069/4	B	\$42,666	-\$99,143	2052/53	\$745	\$2,419	No, NPV negative
NTSAR12BB1	NO1 SECTION 132KV BUSBAR	EC00008297	B	\$42,666	-\$35,025	2023/24	\$3,441	\$2,419	No, NPV negative
NTSCOF2BB3	NO3 SECTION 132KV BUSBAR	T00126/3	B	\$42,666	\$147,631	2023/24	\$12,109	\$2,419	Yes, rank 1
NTSCOF2BB3	NO3 SECTION 132KV BUSBAR	T00127/3	B	\$42,666	\$147,631	2023/24	\$12,109	\$2,419	Yes, rank 1
NTSCOF2BB3	NO3 SECTION 132KV BUSBAR	T00128/1	B	\$42,666	\$147,631	2023/24	\$12,109	\$2,419	Yes, rank 1
NTSCOF2BB3	NO3 SECTION 132KV BUSBAR	T00128/2	B	\$42,666	\$147,631	2023/24	\$12,109	\$2,419	Yes, rank 1
NTSCOF2E	96H KOOLKHAN 132KV FEEDER	T00125/1	B	\$42,666	-\$101,902	2052/53	\$567	\$2,419	No, NPV negative
NTSCOF2G	96C/1 ARMIDALE TEE 132KV FEEDER	EC00012515	B	\$42,666	-\$103,282	2052/53	\$477	\$2,419	No, NPV negative

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
NTSGN22E	969 TAMWORTH 132KV FEEDER	EC00014457	B	\$42,666	-\$101,011	2052/53	\$566	\$2,419	No, NPV negative
NTSGN22H	9U3 BOGGABRI EAST - 132KV FEEDER	EC00014456	B	\$42,666	-\$102,993	2052/53	\$483	\$2,419	No, NPV negative
NTSINV2C1	9U2 MOREE 132KV FEEDER BAY	EC00007412	B	\$42,666	-\$101,973	2052/53	\$539	\$2,419	No, NPV negative
NTSINV2G1	96N ARMIDALE 330 - 132KV FEEDER BAY	EC00007413	B	\$42,666	-\$103,333	2052/53	\$480	\$2,419	No, NPV negative
NTSNB22J	9UH BOGGABRI NORTH - 132KV FEEDER	A08897/1	A	\$189,000	-\$81,319	2052/53	\$2,239	\$10,715	No, NPV negative
NTSNB22J	9UH BOGGABRI NORTH - 132KV FEEDER	A08897/1	B	\$42,666	-\$97,563	2052/53	\$833	\$2,419	No, NPV negative
NTSTA11D1	86 ARMIDALE 330KV FEEDER BAY	EC00003046	B	\$36,289	-\$98,935	2044/45	\$1,329	\$2,057	No, NPV negative
NTSTA11F1	NO1 SECTION 330KV BUSBAR	A08676/4	A	\$234,000	\$116,710	2040/41	\$12,51 <sup>1</sup>	\$13,266	No, not optimally timed
NTSTA11F1	NO1 SECTION 330KV BUSBAR	A08676/4	B	\$36,289	-\$19,214	2023/24	\$5,811	\$2,057	No, NPV negative
NTSTA11F1	NO1 SECTION 330KV BUSBAR	A08676/6	A	\$234,000	\$116,710	2040/41	\$12,51 <sup>1</sup>	\$13,266	No, not optimally timed
NTSTA11F1	NO1 SECTION 330KV BUSBAR	A08676/6	B	\$36,289	-\$19,214	2023/24	\$5,811	\$2,057	No, NPV negative
NTSTA11F1	NO1 SECTION 330KV BUSBAR	A08677/2	A	\$234,000	\$80,635	2041/42	\$10,48 <sup>5</sup>	\$13,266	No, not optimally timed
NTSTA11F1	NO1 SECTION 330KV BUSBAR	A08677/2	B	\$35,625	-\$29,922	2023/24	\$5,047	\$2,020	No, NPV negative
NTSTA11F1	NO1 SECTION 330KV BUSBAR	A08678/1	A	\$234,000	\$80,635	2041/42	\$10,48 <sup>5</sup>	\$13,266	No, not optimally timed
NTSTA11F1	NO1 SECTION 330KV BUSBAR	EC00003047	B	\$36,289	-\$65,979	2023/24	\$2,782	\$2,057	No, NPV negative
NTSTA11F1	NO1 SECTION 330KV BUSBAR	EC00003051	B	\$36,289	-\$65,979	2023/24	\$2,782	\$2,057	No, NPV negative
NTSTA11F2	NO3 SECTION 330KV BUSBAR	A08676/1	A	\$234,000	\$1,197,987	2023/24	\$61,17 <sup>4</sup>	\$13,266	Yes, rank 1
NTSTA11F2	NO3 SECTION 330KV BUSBAR	A08676/1	B	\$36,289	\$429,075	2023/24	\$29,68 <sup>4</sup>	\$2,057	No, rank 2
NTSTA11F2	NO3 SECTION 330KV BUSBAR	A08676/2	A	\$234,000	\$1,197,987	2023/24	\$61,17 <sup>4</sup>	\$13,266	Yes, rank 1
NTSTA11F2	NO3 SECTION 330KV BUSBAR	A08676/2	B	\$36,289	\$429,075	2023/24	\$29,68 <sup>4</sup>	\$2,057	No, rank 2
NTSTA11F2	NO3 SECTION 330KV BUSBAR	A08676/5	A	\$234,000	\$1,197,987	2023/24	\$61,17 <sup>4</sup>	\$13,266	Yes, rank 1
NTSTA11F2	NO3 SECTION 330KV BUSBAR	A08676/5	B	\$36,289	\$429,075	2023/24	\$29,68 <sup>4</sup>	\$2,057	No, rank 2

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
NTSTA11F2	N03 SECTION 330KV BUSBAR	A08676/7	A	\$234,000	\$1,197,987	2023/24	\$61,174	\$13,266	Yes, rank 1
NTSTA11F2	N03 SECTION 330KV BUSBAR	A08676/7	B	\$36,289	\$429,075	2023/24	\$29,684	\$2,057	No, rank 2
NTSTA11F2	N03 SECTION 330KV BUSBAR	A08677/5	A	\$234,000	\$1,009,916	2023/24	\$50,766	\$13,266	Yes, rank 1
NTSTA11F2	N03 SECTION 330KV BUSBAR	A08677/5	B	\$35,625	\$370,166	2023/24	\$25,636	\$2,020	No, rank 2
NTSTA11F2	N03 SECTION 330KV BUSBAR	A08678/2	A	\$234,000	\$1,009,916	2023/24	\$50,766	\$13,266	Yes, rank 1
NTSTA12E	97C TAMWORTH NEW 132KV SS 132KV FEEDER	A08675/1	A	\$189,000	-\$74,287	2052/53	\$2,643	\$10,715	No, NPV negative
NTSTA12E	97C TAMWORTH NEW 132KV SS 132KV FEEDER	A08675/1	B	\$45,707	-\$97,552	2052/53	\$970	\$2,591	No, NPV negative
NTSTA12M	97B TAMWORTH NEW 132KV SS 132KV FEEDER	A08675/2	A	\$189,000	-\$74,287	2052/53	\$2,643	\$10,715	No, NPV negative
NTSTA12M	97B TAMWORTH NEW 132KV SS 132KV FEEDER	A08675/2	B	\$45,707	-\$97,552	2052/53	\$970	\$2,591	No, NPV negative
SWSALB2H1	997/1 COROWA 132KV FEEDER BAY	A07223/4	A	\$189,000	-\$60,891	2052/53	\$3,509	\$10,715	No, NPV negative
SWSALB2L	995 HUME 132KV FEEDER	A07223/9	A	\$189,000	-\$65,180	2052/53	\$3,399	\$10,715	No, NPV negative
SWSANM2E	99H JINDERA 132KV FEEDER	EC00003348	B	\$42,666	-\$102,475	2052/53	\$535	\$2,419	No, NPV negative
SWSANM2G	996 WAGGA 330 TEE MORVEN 132KV FEEDER	EC00003330	B	\$42,666	-\$101,188	2052/53	\$594	\$2,419	No, NPV negative
SWSANM2J	99Z ALBURY 132KV FEEDER	EC00003344	B	\$42,666	-\$102,770	2052/53	\$516	\$2,419	No, NPV negative
SWSDN22G	9R3 FINLEY 132 - 132KV FEEDER	A07086/6	A	\$189,000	-\$59,755	2052/53	\$3,216	\$10,715	No, NPV negative
SWSDN22G	9R3 FINLEY 132 - 132KV FEEDER	A07086/6	B	\$42,666	-\$88,647	2049/50	\$1,304	\$2,419	No, NPV negative
SWSDN24M2	N06 MOAMA 66KV FEEDER BAY	EC00017050	A	\$143,000	-\$55,132	2052/53	\$2,150	\$8,107	No, NPV negative
SWSDN28A1	N01 11KV/415V AUX TRANSFORMER BAY	A07081/1	A	\$143,000	-\$58,003	2052/53	\$2,024	\$8,107	No, NPV negative
SWSDN28A1	N01 11KV/415V AUX TRANSFORMER BAY	A07081/3	A	\$143,000	-\$58,003	2052/53	\$2,024	\$8,107	No, NPV negative
SWSDN28B1	N02 11KV/415V AUX TRANSFORMER BAY	A07081/2	A	\$143,000	-\$58,003	2052/53	\$2,024	\$8,107	No, NPV negative
SWSDN28B1	N02 11KV/415V AUX TRANSFORMER BAY	A07081/4	A	\$143,000	-\$58,003	2052/53	\$2,024	\$8,107	No, NPV negative
SWSGRF2H	99K DARLINGTON PT 132KV FEEDER	EC00012385	B	\$42,666	-\$101,070	2052/53	\$578	\$2,419	No, NPV negative

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SWSGRF6K	79F YENDA 33KV FEEDER	A07385/6	A	\$143,000	-\$47,661	2052/53	\$2,662	\$8,107	No, NPV negative
SWSGRF6U	79R THARBOGANG 33KV BAY	A07386/7	A	\$143,000	-\$49,787	2052/53	\$2,562	\$8,107	No, NPV negative
SWSHU22BB	NO1 SECTION 132KV BUSBAR	EC00021322	A	\$189,000	-\$64,596	2052/53	\$3,428	\$10,715	No, NPV negative
SWSHU22BB	NO1 SECTION 132KV BUSBAR	EC00021323	A	\$189,000	-\$64,596	2052/53	\$3,428	\$10,715	No, NPV negative
SWSHU22BB	NO1 SECTION 132KV BUSBAR	EC00021326	A	\$189,000	-\$64,596	2052/53	\$3,428	\$10,715	No, NPV negative
SWSJDA2F	99B ALBURY 132KV FEEDER	EC00007224	B	\$42,666	-\$102,768	2052/53	\$516	\$2,419	No, NPV negative
SWSJDA2H	99H A.N.M.132KV FEEDER	EC00007222	B	\$42,666	-\$102,768	2052/53	\$516	\$2,419	No, NPV negative
SWSLT11EN	330KV B Bus - No.1 Section Busbar	ETA8055	A	\$234,000	-\$113,555	2052/53	\$2,039	\$13,266	No, NPV negative
SWSLT11EN	330KV B Bus - No.1 Section Busbar	ETA8055	B	\$34,961	-\$112,820	2052/53	\$750	\$1,982	No, NPV negative
SWSLT11ES	330KV B Bus - No.2 Section Busbar	ETA8078	A	\$234,000	-\$113,555	2052/53	\$2,039	\$13,266	No, NPV negative
SWSLT11ES	330KV B Bus - No.2 Section Busbar	ETA8078	B	\$34,961	-\$112,820	2052/53	\$750	\$1,982	No, NPV negative
SWSLT11G1	L1 Tumut 3 330KV Feeder Bay (Units 1-2)	ETA8063	A	\$234,000	-\$113,555	2052/53	\$2,039	\$13,266	No, NPV negative
SWSLT11G1	L1 Tumut 3 330KV Feeder Bay (Units 1-2)	ETA8063	B	\$34,961	-\$112,821	2052/53	\$750	\$1,982	No, NPV negative
SWSLT11J1	L5 Tumut 3 330KV Feeder Bay (Units 5-6)	ETA8057	A	\$234,000	-\$113,555	2052/53	\$2,039	\$13,266	No, NPV negative
SWSLT11J1	L5 Tumut 3 330KV Feeder Bay (Units 5-6)	ETA8057	B	\$34,961	-\$112,821	2052/53	\$750	\$1,982	No, NPV negative
SWSLT11WN	330KV A Bus - No.1 Section Busbar	ETA8086	A	\$234,000	-\$113,555	2052/53	\$2,039	\$13,266	No, NPV negative
SWSLT11WN	330KV A Bus - No.1 Section Busbar	ETA8086	B	\$34,961	-\$112,820	2052/53	\$750	\$1,982	No, NPV negative
SWSLT11WS	330KV A Bus - No.2 Section Busbar	ETA8068	A	\$234,000	-\$113,555	2052/53	\$2,039	\$13,266	No, NPV negative
SWSLT11WS	330KV A Bus - No.2 Section Busbar	ETA8068	B	\$34,961	-\$112,820	2052/53	\$750	\$1,982	No, NPV negative
SWSMUR2C1	97G/1 Geehi Tee 132kV Feeder Bay	ETA8420	A	\$189,000	-\$75,631	2052/53	\$2,614	\$10,715	No, NPV negative
SWSMUR2C2	97G/1 Geehi Tee 132kV CB Bay	ETA8421	A	\$189,000	-\$75,631	2052/53	\$2,614	\$10,715	No, NPV negative
SWSMUR2C2	97G/1 Geehi Tee 132kV CB Bay	ETA8422	A	\$189,000	-\$75,631	2052/53	\$2,614	\$10,715	No, NPV negative
SWSTU22D	99P GADARA 132KV FEEDER	A07252/1	A	\$189,000	-\$69,629	2052/53	\$2,888	\$10,715	No, NPV negative
SWSTU22E	097B BLOWERING 132KV FEEDER	A07253/1	A	\$189,000	-\$77,840	2052/53	\$2,422	\$10,715	No, NPV negative
SWSTU22E	097B BLOWERING 132KV FEEDER	A07253/1	B	\$42,666	-\$96,336	2052/53	\$904	\$2,419	No, NPV negative
SWSTU22F1	NO1 SECTION 132KV BUSBAR	A07252/2	A	\$189,000	\$8,383,137	2023/24	\$387,836	\$10,715	Yes, rank 1
SWSTU22F1	NO1 SECTION 132KV BUSBAR	A07252/3	A	\$189,000	\$8,383,137	2023/24	\$387,836	\$10,715	Yes, rank 1

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SWSTU22F1	NO1 SECTION 132KV BUSBAR	A07252/4	A	\$189,000	\$8,383,137	2023/24	\$387,836	\$10,715	Yes, rank 1
SWSTU22F1	NO1 SECTION 132KV BUSBAR	A07252/5	A	\$189,000	\$8,383,137	2023/24	\$387,836	\$10,715	Yes, rank 1
SWSTU22F2	NO2 SECTION 132KV BUSBAR	A07252/6	A	\$189,000	\$8,383,137	2023/24	\$387,836	\$10,715	Yes, rank 1
SWSTU22F2	NO2 SECTION 132KV BUSBAR	A07252/8	A	\$189,000	\$8,383,137	2023/24	\$387,836	\$10,715	Yes, rank 1
SWSTU22F2	NO2 SECTION 132KV BUSBAR	A07252/9	A	\$189,000	\$8,383,137	2023/24	\$387,836	\$10,715	Yes, rank 1
SWSTU22G	992 BURRINJUCK 132KV FEEDER	A07252/7	A	\$189,000	-\$65,863	2052/53	\$3,059	\$10,715	No, NPV negative
SWSTU24F	828 GUNDAGAI 66KV FEEDER	A07248/1	A	\$143,000	-\$52,342	2052/53	\$2,359	\$8,107	No, NPV negative
SWSTU24J	827 TUMUT 66KV S/S FEEDER	A07248/5	A	\$143,000	-\$49,920	2052/53	\$2,469	\$8,107	No, NPV negative
SWSTU24K1	NO1 SECTION 66KV BUSBAR	A07248/2	A	\$143,000	\$8,409,383	2023/24	\$387,715	\$8,107	Yes, rank 1
SWSTU24K1	NO1 SECTION 66KV BUSBAR	A07248/3	A	\$143,000	\$8,409,383	2023/24	\$387,715	\$8,107	Yes, rank 1
SWSTU24K1	NO1 SECTION 66KV BUSBAR	A07248/4	A	\$143,000	\$8,409,383	2023/24	\$387,715	\$8,107	Yes, rank 1
SWSTU24K1	NO1 SECTION 66KV BUSBAR	A07248/6	A	\$143,000	\$8,409,383	2023/24	\$387,715	\$8,107	Yes, rank 1
SWSTU24K1	NO1 SECTION 66KV BUSBAR	A07248/7	A	\$143,000	\$8,409,383	2023/24	\$387,715	\$8,107	Yes, rank 1
SWSTU24K1	NO1 SECTION 66KV BUSBAR	A07248/8	A	\$143,000	\$8,409,383	2023/24	\$387,715	\$8,107	Yes, rank 1
SWSTU24K2	NO2 SECTION 66KV BUSBAR	A07248/9	A	\$143,000	\$8,409,383	2023/24	\$387,715	\$8,107	Yes, rank 1
SWSTU24K2	NO2 SECTION 66KV BUSBAR	A07249/1	A	\$143,000	\$8,409,383	2023/24	\$387,715	\$8,107	Yes, rank 1
SWSTU24K2	NO2 SECTION 66KV BUSBAR	A07249/2	A	\$143,000	\$8,409,383	2023/24	\$387,715	\$8,107	Yes, rank 1
SWSTU24K2	NO2 SECTION 66KV BUSBAR	A07249/4	A	\$143,000	\$8,409,383	2023/24	\$387,715	\$8,107	Yes, rank 1
SWSTU24K2	NO2 SECTION 66KV BUSBAR	A07249/5	A	\$143,000	\$8,409,383	2023/24	\$387,715	\$8,107	Yes, rank 1

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
SWSTU24K2	NO2 SECTION 66KV BUSBAR	A07249/8	A	\$143,000	\$8,409,383	2023/24	\$387,715	\$8,107	Yes, rank 1
SWSTU24L	829 TUMUT 66KV S/S FEEDER	A07249/3	A	\$143,000	-\$49,920	2052/53	\$2,469	\$8,107	No, NPV negative
SWSTU24N2	848 TUMBARUMBA TEE BATLOW 66KV FDR BAY	A07249/6	A	\$143,000	-\$53,608	2052/53	\$2,301	\$8,107	No, NPV negative
SWSTU24P2	850 Talbingo Tee Jounama 66KV FEEDER BAY	A07249/9	A	\$143,000	-\$54,052	2052/53	\$2,281	\$8,107	No, NPV negative
SWSWG12BA 1	A1 SECTION 132KV "A" BUS - NO.1 SECTION	A07140/2	A	\$189,000	-\$89,817	2052/53	\$1,794	\$10,715	No, NPV negative
SWSWG12BA 1	A1 SECTION 132KV "A" BUS - NO.1 SECTION	A07140/2	B	\$32,375	-\$93,267	2052/53	\$660	\$1,835	No, NPV negative
SWSWG12H2	9R5 WAGGA NORTH 132KV FEEDER BAY	A07139/7	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative
SWSWG12H2	9R5 WAGGA NORTH 132KV FEEDER BAY	A07139/7	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
SWSWG12J	99X WAGGA 132KV SS - 132KV FEEDER BAY	A07139/5	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative
SWSWG12J	99X WAGGA 132KV SS - 132KV FEEDER BAY	A07139/5	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
SWSWG12K	993 GADARA 132KV FEEDER	A07139/3	A	\$189,000	-\$79,379	2052/53	\$2,260	\$10,715	No, NPV negative
SWSWG12K	993 GADARA 132KV FEEDER	A07139/3	B	\$32,375	-\$88,875	2051/52	\$886	\$1,835	No, NPV negative
SWSWG12Q	99W WAGGA 132KV SS - 132KV FEEDER BAY	A07138/8	A	\$189,000	-\$89,841	2052/53	\$1,793	\$10,715	No, NPV negative
SWSWG12Q	99W WAGGA 132KV SS - 132KV FEEDER BAY	A07138/8	B	\$32,375	-\$93,278	2052/53	\$659	\$1,835	No, NPV negative
SWSWG12T	994 YANCO 132KV FEEDER	A07138/4	A	\$189,000	-\$88,590	2052/53	\$1,872	\$10,715	No, NPV negative
SWSWG12T	994 YANCO 132KV FEEDER	A07138/4	B	\$32,375	-\$92,942	2052/53	\$682	\$1,835	No, NPV negative
SWSWG12U	996 A.N.M. 132KV FEEDER BAY	A07138/2	A	\$189,000	-\$84,618	2052/53	\$2,039	\$10,715	No, NPV negative
SWSWG12U	996 A.N.M. 132KV FEEDER BAY	A07138/2	B	\$32,375	-\$91,188	2052/53	\$770	\$1,835	No, NPV negative
SWSYA22BB2	NO2 SECTION 132KV BUSBAR	A07440/5	A	\$189,000	\$17,613,197	2023/24	\$789,002	\$10,715	Yes, rank 1
SWSYA22BB2	NO2 SECTION 132KV BUSBAR	A07440/5	B	\$42,666	\$7,330,516	2023/24	\$392,043	\$2,419	No, rank 2
SWSYA22D	994 WAGGA 330 - 132KV FEEDER	EC00015163	B	\$42,666	-\$103,340	2052/53	\$480	\$2,419	No, NPV negative
SWSYA22G	99J GRIFFITH 132KV FEEDER	A07442/2	A	\$189,000	-\$71,974	2052/53	\$2,714	\$10,715	No, NPV negative
SWSYA22G	99J GRIFFITH 132KV FEEDER	A07442/2	B	\$42,666	-\$94,139	2052/53	\$1,028	\$2,419	No, NPV negative
SWSYA22J	99F URANQUINTY 132KV FEEDER	A07442/4	A	\$189,000	-\$83,215	2052/53	\$2,214	\$10,715	No, NPV negative
SWSYA22J	99F URANQUINTY 132KV FEEDER	A07442/4	B	\$42,666	-\$98,858	2052/53	\$779	\$2,419	No, NPV negative

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
SYSCA11B2	NO2 TRANSF 330/132/16KV TRANSF BAY	PH0011/1	A	\$143,000	-\$48,818	2052/53	\$2,520	\$8,107	No, NPV negative
SYSCA11C2	NO3 TRANSF 330/132/16KV TRANSF BAY	PH0011/2	A	\$143,000	-\$48,818	2052/53	\$2,520	\$8,107	No, NPV negative
SYSCA11G1	01 UPPER TUMUT 330KV FEEDER BAY	5830/2	A	\$234,000	-\$114,947	2052/53	\$1,952	\$13,266	No, NPV negative
SYSCA11G1	01 UPPER TUMUT 330KV FEEDER BAY	5830/2	B	\$35,625	-\$113,669	2052/53	\$724	\$2,020	No, NPV negative
SYSCA11G1	01 UPPER TUMUT 330KV FEEDER BAY	PH0004/1	A	\$234,000	-\$114,947	2052/53	\$1,952	\$13,266	No, NPV negative
SYSCA11G1	01 UPPER TUMUT 330KV FEEDER BAY	PH0004/1	B	\$35,625	-\$113,669	2052/53	\$724	\$2,020	No, NPV negative
SYSCA11G1	01 UPPER TUMUT 330KV FEEDER BAY	PH0004/2	A	\$234,000	-\$114,947	2052/53	\$1,952	\$13,266	No, NPV negative
SYSCA11G1	01 UPPER TUMUT 330KV FEEDER BAY	PH0004/2	B	\$35,625	-\$113,669	2052/53	\$724	\$2,020	No, NPV negative
SYSCA11H1	07 LOWER TUMUT 330KV FEEDER BAY	5830/1	A	\$234,000	-\$114,947	2052/53	\$1,952	\$13,266	No, NPV negative
SYSCA11H1	07 LOWER TUMUT 330KV FEEDER BAY	5830/1	B	\$35,625	-\$113,669	2052/53	\$724	\$2,020	No, NPV negative
SYSCA11H1	07 LOWER TUMUT 330KV FEEDER BAY	A06570/1	A	\$234,000	-\$105,974	2052/53	\$2,520	\$13,266	No, NPV negative
SYSCA11H1	07 LOWER TUMUT 330KV FEEDER BAY	A06570/2	A	\$234,000	-\$105,974	2052/53	\$2,520	\$13,266	No, NPV negative
SYSCA11J1	A1 SECTION 330KV BUSBAR	5828/1	A	\$234,000	-\$113,280	2052/53	\$2,022	\$13,266	No, NPV negative
SYSCA11J1	A1 SECTION 330KV BUSBAR	5828/1	B	\$35,625	-\$112,932	2052/53	\$761	\$2,020	No, NPV negative
SYSCA11J1	A1 SECTION 330KV BUSBAR	5829/2	A	\$234,000	-\$113,280	2052/53	\$2,022	\$13,266	No, NPV negative
SYSCA11J1	A1 SECTION 330KV BUSBAR	5829/2	B	\$35,625	-\$112,932	2052/53	\$761	\$2,020	No, NPV negative
SYSCA11J1	A1 SECTION 330KV BUSBAR	A06570/4	A	\$234,000	-\$103,711	2052/53	\$2,623	\$13,266	No, NPV negative
SYSCA11J3	A2 SECTION 330KV BUSBAR	5829/1	A	\$234,000	-\$105,973	2052/53	\$2,520	\$13,266	No, NPV negative
SYSCA11J3	A2 SECTION 330KV BUSBAR	A06570/7	A	\$234,000	-\$105,973	2052/53	\$2,520	\$13,266	No, NPV negative
SYSCA11J3	A2 SECTION 330KV BUSBAR	A06571/3	A	\$234,000	-\$105,973	2052/53	\$2,520	\$13,266	No, NPV negative
SYSCA11J3	A2 SECTION 330KV BUSBAR	EC00020429	A	\$234,000	-\$105,973	2052/53	\$2,520	\$13,266	No, NPV negative
SYSCA11K1	B1 SECTION 330KV BUSBAR	5830/3	A	\$234,000	-\$105,974	2052/53	\$2,520	\$13,266	No, NPV negative
SYSCA11K1	B1 SECTION 330KV BUSBAR	A06570/3	A	\$234,000	-\$105,974	2052/53	\$2,520	\$13,266	No, NPV negative
SYSCA11K1	B1 SECTION 330KV BUSBAR	A06570/9	A	\$234,000	-\$105,974	2052/53	\$2,520	\$13,266	No, NPV negative
SYSCA11K1	B1 SECTION 330KV BUSBAR	A06571/2	A	\$234,000	-\$105,974	2052/53	\$2,520	\$13,266	No, NPV negative
SYSCA11K2	B2 SECTION 330KV BUSBAR	5831/3	A	\$234,000	-\$113,279	2052/53	\$2,022	\$13,266	No, NPV negative
SYSCA11K2	B2 SECTION 330KV BUSBAR	5831/3	B	\$35,625	-\$112,932	2052/53	\$761	\$2,020	No, NPV negative
SYSCA11K2	B2 SECTION 330KV BUSBAR	A06570/8	A	\$234,000	-\$103,710	2052/53	\$2,623	\$13,266	No, NPV negative
SYSCA11K2	B2 SECTION 330KV BUSBAR	A06571/1	A	\$234,000	-\$103,710	2052/53	\$2,623	\$13,266	No, NPV negative

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
SYSCA11L1	9 YASS 330 - 330KV FEEDER BAY	A06570/5	A	\$234,000	-\$105,960	2052/53	\$2,520	\$13,266	No, NPV negative
SYSCA11L1	9 YASS 330 - 330KV FEEDER BAY	A06570/6	A	\$234,000	-\$105,960	2052/53	\$2,520	\$13,266	No, NPV negative
SYSCA11L1	9 YASS 330 - 330KV FEEDER BAY	EC00020428	A	\$234,000	-\$105,960	2052/53	\$2,520	\$13,266	No, NPV negative
SYSCA11M1	6 CAPITAL WIND FARM 330KV FEEDER BAY	5831/2	A	\$234,000	-\$112,010	2052/53	\$2,076	\$13,266	No, NPV negative
SYSCA11M1	6 CAPITAL WIND FARM 330KV FEEDER BAY	5831/2	B	\$35,625	-\$112,372	2052/53	\$790	\$2,020	No, NPV negative
SYSCA11M1	6 CAPITAL WIND FARM 330KV FEEDER BAY	EC00020430	A	\$234,000	-\$112,010	2052/53	\$2,076	\$13,266	No, NPV negative
SYSCA11M1	6 CAPITAL WIND FARM 330KV FEEDER BAY	EC00020430	B	\$35,625	-\$112,372	2052/53	\$790	\$2,020	No, NPV negative
SYSCA12A3	NO1 TRANS 132KV BUS COMMON EQUIPMENT BAY	EC00001375	B	\$42,666	-\$102,479	2052/53	\$535	\$2,419	No, NPV negative
SYSCA12A3	NO1 TRANS 132KV BUS COMMON EQUIPMENT BAY	EC00001376	B	\$42,666	-\$102,479	2052/53	\$535	\$2,419	No, NPV negative
SYSCA12A3	NO1 TRANS 132KV BUS COMMON EQUIPMENT BAY	EC00001383	B	\$42,666	-\$102,479	2052/53	\$535	\$2,419	No, NPV negative
SYSCA12B	NO2 TRANSFORMER 132KV B BUS CB BAY	A06582/1	A	\$189,000	-\$80,298	2052/53	\$2,402	\$10,715	No, NPV negative
SYSCA12B	NO2 TRANSFORMER 132KV B BUS CB BAY	A06582/4	A	\$189,000	-\$80,298	2052/53	\$2,402	\$10,715	No, NPV negative
SYSCA12C3	NO3 TRANS 132KV BUS COMMON EQUIPMENT BAY	A06583/1	A	\$189,000	-\$80,298	2052/53	\$2,402	\$10,715	No, NPV negative
SYSCA12C3	NO3 TRANS 132KV BUS COMMON EQUIPMENT BAY	A06583/5	A	\$189,000	-\$80,298	2052/53	\$2,402	\$10,715	No, NPV negative
SYSCA12C3	NO3 TRANS 132KV BUS COMMON EQUIPMENT BAY	EC00001378	B	\$42,666	-\$102,479	2052/53	\$535	\$2,419	No, NPV negative
SYSCA12K	NO1 WODEN 132KV FEEDER	A06588/7	A	\$189,000	-\$80,298	2052/53	\$2,402	\$10,715	No, NPV negative
SYSCA12L	NO2 LATHAM 132KV FEEDER	A06589/4	A	\$189,000	-\$53,640	2052/53	\$3,616	\$10,715	No, NPV negative
SYSCA12M	976/1 SPRING FLAT 132KV FEEDER	A06585/1	A	\$189,000	-\$80,297	2052/53	\$2,402	\$10,715	No, NPV negative
SYSCA12N1	A1 SECTION 132KV BUSBAR	A06586/4	A	\$189,000	\$941,083	2023/24	\$48,917	\$10,715	Yes, rank 1
SYSCA12N1	A1 SECTION 132KV BUSBAR	A06589/7	A	\$143,000	\$969,975	2023/24	\$48,917	\$8,107	Yes, rank 1
SYSCA12N1	A1 SECTION 132KV BUSBAR	EC00001373	B	\$42,666	\$142,120	2023/24	\$11,676	\$2,419	Yes, rank 1
SYSCA12N1	A1 SECTION 132KV BUSBAR	EC00001379	B	\$42,666	\$142,120	2023/24	\$11,676	\$2,419	Yes, rank 1

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Bay	Bay Description	Equipment Number	Option	Capex	NPV (weighted)	Optimal timing	Total Benefit	Annualised Capex	Preferred Option
SYSCA12N2	A2 SECTION 132KV BUSBAR	A06583/4	A	\$189,000	\$941,083	2023/24	\$48,917	\$10,715	Yes, rank 1
SYSCA12N2	A2 SECTION 132KV BUSBAR	A06586/7	A	\$189,000	\$941,083	2023/24	\$48,917	\$10,715	Yes, rank 1
SYSCA12N2	A2 SECTION 132KV BUSBAR	A06587/7	A	\$189,000	\$941,083	2023/24	\$48,917	\$10,715	Yes, rank 1
SYSCA12P1	B1 SECTION 132KV BUSBAR	A06582/7	A	\$189,000	-\$80,131	2052/53	\$2,409	\$10,715	No, NPV negative
SYSCA12P1	B1 SECTION 132KV BUSBAR	A06585/4	A	\$189,000	-\$80,131	2052/53	\$2,409	\$10,715	No, NPV negative
SYSCA12P1	B1 SECTION 132KV BUSBAR	A06586/7	A	\$189,000	-\$80,131	2052/53	\$2,409	\$10,715	No, NPV negative
SYSCA12P1	B1 SECTION 132KV BUSBAR	A06589/1	A	\$189,000	-\$80,131	2052/53	\$2,409	\$10,715	No, NPV negative
SYSCA12P1	B1 SECTION 132KV BUSBAR	EC00001374	B	\$42,666	-\$102,439	2052/53	\$537	\$2,419	No, NPV negative
SYSCA12P1	B1 SECTION 132KV BUSBAR	EC00001380	B	\$42,666	-\$102,439	2052/53	\$537	\$2,419	No, NPV negative
SYSCA12P2	B2 SECTION 132KV BUSBAR	A06586/1	A	\$189,000	-\$80,295	2052/53	\$2,402	\$10,715	No, NPV negative
SYSCA12P2	B2 SECTION 132KV BUSBAR	A06587/4	A	\$189,000	\$617,646	2023/24	\$34,187	\$10,715	Yes, rank 1
SYSCA12P2	B2 SECTION 132KV BUSBAR	EC00001377	B	\$42,666	-\$102,479	2052/53	\$535	\$2,419	No, NPV negative
SYSCA12R	NO3 GOLD CREEK 132KV FEEDER	A06587/1	A	\$189,000	-\$62,082	2052/53	\$3,231	\$10,715	No, NPV negative
SYSCA12S	977/1 QUEANBEYAN 132KV FEEDER	A06588/1	A	\$189,000	-\$76,803	2052/53	\$2,561	\$10,715	No, NPV negative
SYSMRU2D	99M YASS 330KV SS - 132KV FEEDER	EC00012061	B	\$42,666	-\$103,614	2052/53	\$463	\$2,419	No, NPV negative
SYSMRU2E1	NO1 SECTION 132KV BUSBAR	EC00012063	B	\$42,666	\$2,337,715	2023/24	\$104,419	\$2,419	Yes, rank 1
SYSMRU2E1	NO1 SECTION 132KV BUSBAR	EC00012065	B	\$42,666	\$2,337,715	2023/24	\$104,419	\$2,419	Yes, rank 1
SYSMRU2E1	NO1 SECTION 132KV BUSBAR	EC00012066	B	\$42,666	\$2,337,715	2023/24	\$104,419	\$2,419	Yes, rank 1
SYSMRU2E2	NO2 SECTION 132KV BUSBAR	EC00012064	B	\$42,666	\$2,337,715	2023/24	\$104,419	\$2,419	Yes, rank 1
SYSMRU2E2	NO2 SECTION 132KV BUSBAR	EC00012067	B	\$42,666	\$2,337,715	2023/24	\$104,419	\$2,419	Yes, rank 1
SYSMRU2E2	NO2 SECTION 132KV BUSBAR	EC00012068	B	\$42,666	\$2,337,715	2023/24	\$104,419	\$2,419	Yes, rank 1
SYSMRU2F	991 WAGGA NORTH - 132KV FEEDER	EC00012062	B	\$42,666	-\$103,614	2052/53	\$463	\$2,419	No, NPV negative

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## Appendix C –N2349 Disconnecter Renewal Program

The table below contains all the disconnecter renewal projects, which are recommended to progress under this OER.

Bay	Bay Description	Equipment Number	Option Name	Capex	NPV (weighted)	ALARP	Optimal timing
CMSDPT2P1	B1 SECTION 132KV BUSBAR	EC00002757	B	\$ 42,666	\$ 59,351	No	2023/24
CMSDPT2P1	B1 SECTION 132KV BUSBAR	EC00005228	B	\$ 42,666	\$ 59,351	No	2023/24
CMSDPT2P1	B1 SECTION 132KV BUSBAR	EC00005240	B	\$ 42,666	\$ 59,351	No	2023/24
CMSDPT2P1	B1 SECTION 132KV BUSBAR	EC00005254	B	\$ 42,666	\$ 59,351	No	2023/24
CMSDPT2P1	B1 SECTION 132KV BUSBAR	EC00005409	B	\$ 42,666	\$ 59,351	No	2023/24
CMSDPT2P2	B2 SECTION 132KV BUSBAR	EC00004923	B	\$ 42,666	\$ 394,726	No	2023/24
CMSDPT2P2	B2 SECTION 132KV BUSBAR	EC00004935	B	\$ 42,666	\$ 419,730	No	2023/24
CMSDPT2P2	B2 SECTION 132KV BUSBAR	EC00005251	B	\$ 42,666	\$ 394,726	No	2023/24
CMSDPT2P2	B2 SECTION 132KV BUSBAR	EC00005263	B	\$ 42,666	\$ 419,730	No	2023/24
CMSDPT2P2	B2 SECTION 132KV BUSBAR	EC00005269	B	\$ 42,666	\$ 394,726	No	2023/24
CMSDPT2P2	B2 SECTION 132KV BUSBAR	EC00005412	B	\$ 42,666	\$ 394,726	No	2023/24
CMSDPT2Q1	A1 SECTION 132KV BUSBAR	EC00002756	B	\$ 42,666	\$ 557,136	No	2023/24
CMSDPT2Q1	A1 SECTION 132KV BUSBAR	EC00005222	B	\$ 42,666	\$ 557,136	No	2023/24
CMSDPT2Q1	A1 SECTION 132KV BUSBAR	EC00005234	B	\$ 42,666	\$ 524,984	No	2023/24
CMSDPT2Q1	A1 SECTION 132KV BUSBAR	EC00005420	B	\$ 42,666	\$ 557,136	No	2023/24
CMSDPT2Q2	A2 SECTION 132KV BUSBAR	EC00004920	B	\$ 42,666	\$ 56,202	No	2023/24
CMSDPT2Q2	A2 SECTION 132KV BUSBAR	EC00004932	B	\$ 42,666	\$ 64,397	No	2023/24
CMSDPT2Q2	A2 SECTION 132KV BUSBAR	EC00005245	B	\$ 42,666	\$ 48,233	No	2023/24
CMSDPT2Q2	A2 SECTION 132KV BUSBAR	EC00005257	B	\$ 42,666	\$ 56,202	No	2023/24
CMSDPT2Q2	A2 SECTION 132KV BUSBAR	EC00005423	B	\$ 42,666	\$ 56,202	No	2023/24
CMSSE12BA1	A1 SECTION 132KV BUSBAR	A0202714	A	\$ 189,000	\$ 899,649	No	2023/24
CMSSE12BA1	A1 SECTION 132KV BUSBAR	A0202718	A	\$ 189,000	\$ 899,649	No	2023/24
CMSSE12BA1	A1 SECTION 132KV BUSBAR	A020307	A	\$ 189,000	\$ 846,540	No	2023/24
CMSSE12BA1	A1 SECTION 132KV BUSBAR	A020311	A	\$ 189,000	\$ 846,540	No	2023/24

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Bay	Bay Description	Equipment Number	Option Name	Capex	NPV (weighted)	ALARP	Optimal timing
CMSSE12BA2	A2 SECTION 132KV BUSBAR	A02027/2	A	\$ 189,000	\$ 1,257,071	No	2023/24
CMSSE12BA2	A2 SECTION 132KV BUSBAR	A02027/5	A	\$ 189,000	\$ 1,257,071	No	2023/24
CMSSE12BA2	A2 SECTION 132KV BUSBAR	A02027/6	A	\$ 189,000	\$ 1,257,071	No	2023/24
CMSSE12BA2	A2 SECTION 132KV BUSBAR	A02029/9	A	\$ 189,000	\$ 1,257,071	No	2023/24
CMSSE12BB3	B3 SECTION 132KV BUSBAR	A02025/1	A	\$ 189,000	\$ 1,270,764	No	2023/24
CMSSE12BB3	B3 SECTION 132KV BUSBAR	A02025/4	A	\$ 189,000	\$ 1,347,367	No	2023/24
CMSSE12BB3	B3 SECTION 132KV BUSBAR	A02028/3	A	\$ 189,000	\$ 1,347,367	No	2023/24
CMSSE12BB3	B3 SECTION 132KV BUSBAR	A02029/7	A	\$ 189,000	\$ 1,270,764	No	2023/24
CMSSE12BB4	B4 SECTION 132KV BUSBAR	A02028/1	A	\$ 189,000	\$ 1,347,367	No	2023/24
CMSSE12BB4	B4 SECTION 132KV BUSBAR	A02028/4	A	\$ 189,000	\$ 1,347,367	No	2023/24
CMSSE12BB4	B4 SECTION 132KV BUSBAR	A02029/3	A	\$ 189,000	\$ 1,347,367	No	2023/24
CMSSE12BB4	B4 SECTION 132KV BUSBAR	A02031/3	A	\$ 189,000	\$ 1,347,367	No	2023/24
CMSSE12BB4	B4 SECTION 132KV BUSBAR	A02031/7	A	\$ 189,000	\$ 1,347,367	No	2023/24
CMSSYN2L1	B1 SECTION 132KV BUSBAR	H71485/3	A	\$ 189,000	\$ 533,325	No	2023/24
CMSSYN2L1	B1 SECTION 132KV BUSBAR	H71486/1	A	\$ 189,000	\$ 533,325	No	2023/24
CMSSYN2L1	B1 SECTION 132KV BUSBAR	H71488/3	A	\$ 189,000	\$ 503,526	No	2023/24
CMSSYN2L1	B1 SECTION 132KV BUSBAR	H71490/2	A	\$ 189,000	\$ 533,325	No	2023/24
CMSSYN2L1	B1 SECTION 132KV BUSBAR	H71495/1	A	\$ 189,000	\$ 503,526	No	2023/24
CMSSYS1L2	B2 SECTION 330KV BUSBAR	B01507/2	A	\$ 234,000	\$ 498,522	No	2023/24
CMSSYS1L2	B2 SECTION 330KV BUSBAR	H70518/2	A	\$ 234,000	\$ 498,522	No	2023/24
CMSSYS1L2	B2 SECTION 330KV BUSBAR	H70518/3	A	\$ 234,000	\$ 498,522	No	2023/24
CMSSYS1L2	B2 SECTION 330KV BUSBAR	H70519/1	A	\$ 234,000	\$ 431,598	No	2023/24
CMSSYS1L2	B2 SECTION 330KV BUSBAR	H70520/2	A	\$ 234,000	\$ 498,522	No	2023/24
CMSSYS1L2	B2 SECTION 330KV BUSBAR	H70523/1	A	\$ 234,000	\$ 464,422	No	2023/24
CMSSYS2Q1	A1 SECTION 132KV BUSBAR	H70603/1	A	\$ 189,000	\$ 2,917,970	No	2023/24
CMSSYS2Q1	A1 SECTION 132KV BUSBAR	H70605/1	A	\$ 189,000	\$ 1,490,600	No	2023/24
CMSSYS2Q1	A1 SECTION 132KV BUSBAR	H70606/1	A	\$ 189,000	\$ 1,490,600	No	2023/24
CMSSYS2Q1	A1 SECTION 132KV BUSBAR	H70608/1	A	\$ 189,000	\$ 1,490,600	No	2023/24
CMSSYS2Q1	A1 SECTION 132KV BUSBAR	H70610/1	A	\$ 189,000	\$ 1,490,600	No	2023/24

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Bay	Bay Description	Equipment Number	Option Name	Capex	NPV (weighted)	ALARP	Optimal timing
CMSSYS2Q1	A1 SECTION 132KV BUSBAR	H70612/1	A	\$ 189,000	\$ 1,490,600	No	2023/24
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70591/1	A	\$ 189,000	\$ 21,875,447	No	2023/24
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70613/1	A	\$ 189,000	\$ 21,875,447	No	2023/24
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70614/1	A	\$ 189,000	\$ 21,875,447	No	2023/24
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70619/1	A	\$ 189,000	\$ 21,875,447	No	2023/24
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70630/3	A	\$ 189,000	\$ 21,875,447	No	2023/24
CMSSYS2Q2	A2 SECTION 132KV BUSBAR	H70632/3	A	\$ 189,000	\$ 21,875,447	No	2023/24
CMSSYS2R1	B1 SECTION 132KV BUSBAR	H70623/1	A	\$ 189,000	\$ 8,358,347	No	2023/24
CMSSYS2R1	B1 SECTION 132KV BUSBAR	H70628/3	A	\$ 189,000	\$ 8,358,347	No	2023/24
CMSSYS2R1	B1 SECTION 132KV BUSBAR	H70629/1	A	\$ 189,000	\$ 8,358,347	No	2023/24
CMSSYS2R1	B1 SECTION 132KV BUSBAR	H70629/2	A	\$ 189,000	\$ 8,358,347	No	2023/24
CMSSYS2R1	B1 SECTION 132KV BUSBAR	H70633/1	A	\$ 189,000	\$ 8,358,347	No	2023/24
CMSSYS2R2	B2 SECTION 132KV BUSBAR	EC00001458	B	\$ 45,707	\$ 5,474,760	No	2023/24
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70599/1	A	\$ 189,000	\$ 21,875,447	No	2023/24
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70601/2	A	\$ 189,000	\$ 21,875,447	No	2023/24
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70618/1	A	\$ 189,000	\$ 21,875,447	No	2023/24
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70620/1	A	\$ 189,000	\$ 21,875,447	No	2023/24
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70631/2	A	\$ 189,000	\$ 21,875,447	No	2023/24
CMSSYS2R2	B2 SECTION 132KV BUSBAR	H70632/1	A	\$ 189,000	\$ 21,875,447	No	2023/24
CMSSYW1J2	A2 SECTION 330KV BUSBAR	A03010/6	A	\$ 234,000	\$ 4,509,895	No	2023/24
CMSSYW1K1	B1 SECTION 330KV BUSBAR	A03011/1	A	\$ 234,000	\$ 3,171,385	No	2023/24
CMSSYW2N1	A1 SECTION 132KV BUSBAR	A03080/5	A	\$ 189,000	\$ 12,843,030	No	2023/24
CMSSYW2N1	A1 SECTION 132KV BUSBAR	A03082/3	A	\$ 189,000	\$ 18,235,442	No	2023/24
CMSSYW2N2	A2 SECTION 132KV BUSBAR	A03063/4	A	\$ 189,000	\$ 23,585,557	No	2023/24
CMSSYW2N2	A2 SECTION 132KV BUSBAR	A03064/1	A	\$ 189,000	\$ 23,585,557	No	2023/24
CMSSYW2N2	A2 SECTION 132KV BUSBAR	A03080/7	A	\$ 189,000	\$ 23,585,557	No	2023/24
CMSSYW2P1	B1 SECTION 132KV BUSBAR	A03082/5	A	\$ 189,000	\$ 260,825	No	2023/24
CMSSYW2P2	B2 SECTION 132KV BUSBAR	A03063/3	A	\$ 189,000	\$ 9,571,810	No	2023/24
CMSSYW2P2	B2 SECTION 132KV BUSBAR	A03082/1	A	\$ 189,000	\$ 9,571,810	No	2023/24

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Bay	Bay Description	Equipment Number	Option Name	Capex	NPV (weighted)	ALARP	Optimal timing
COSBER2H1	2 SECTION 132KV BUSBAR	B01309/5	A	\$ 189,000	\$ 18,952,702	No	2023/24
COSBER2H1	2 SECTION 132KV BUSBAR	B01309/8	A	\$ 189,000	\$ 18,952,702	No	2023/24
COSBER2H2	3 SECTION 132KV BUSBAR	B01309/3	A	\$ 189,000	\$ 18,952,702	No	2023/24
COSBER2H2	3 SECTION 132KV BUSBAR	B01309/6	A	\$ 189,000	\$ 18,952,702	No	2023/24
COSBER2H2	3 SECTION 132KV BUSBAR	B01309/7	A	\$ 189,000	\$ 18,952,702	No	2023/24
COSBER4Q2	3 SECTION 66KV BUSBAR	EC00005456	A	143000	271998.7384	No	
COSCW22BB3	3 SECTION 132KV BUSBAR	A01124/2	A	\$ 189,000	\$ 8,319,326	No	2023/24
COSCW22BB3	3 SECTION 132KV BUSBAR	A01124/4	A	\$ 189,000	\$ 8,319,326	No	2023/24
COSCW22BB5	5 SECTION 132KV BUSBAR	A01124/5	A	\$ 189,000	\$ 8,319,326	No	2023/24
COSCW22BB5	5 SECTION 132KV BUSBAR	A01124/6	A	\$ 189,000	\$ 8,319,326	No	2023/24
COSCW24K1	1 SECTION 66KV BUSBAR	A01134/1	A	\$ 143,000	\$ 8,345,821	No	2023/24
COSCW24K1	1 SECTION 66KV BUSBAR	A01134/3	A	\$ 143,000	\$ 8,345,821	No	2023/24
COSCW24K1	1 SECTION 66KV BUSBAR	A01134/5	A	\$ 143,000	\$ 8,345,821	No	2023/24
COSCW24K1	1 SECTION 66KV BUSBAR	A01134/7	A	\$ 143,000	\$ 8,345,821	No	2023/24
COSCW24K1	1 SECTION 66KV BUSBAR	A01134/9	A	\$ 143,000	\$ 8,345,821	No	2023/24
COSCW24K1	1 SECTION 66KV BUSBAR	A01135/2	A	\$ 143,000	\$ 8,345,821	No	2023/24
COSCW24K2	2 SECTION 66KV BUSBAR	A01134/2	A	\$ 143,000	\$ 8,345,821	No	2023/24
COSCW24K2	2 SECTION 66KV BUSBAR	A01134/4	A	\$ 143,000	\$ 8,345,821	No	2023/24
COSCW24K2	2 SECTION 66KV BUSBAR	A01134/6	A	\$ 143,000	\$ 8,345,821	No	2023/24
COSCW24K2	2 SECTION 66KV BUSBAR	A01135/4	A	\$ 143,000	\$ 8,345,821	No	2023/24
COSCW24K2	2 SECTION 66KV BUSBAR	A01135/6	A	\$ 143,000	\$ 8,345,821	No	2023/24
COSCW24K2	2 SECTION 66KV BUSBAR	A01135/8	A	\$ 143,000	\$ 8,345,821	No	2023/24
COSCW24L2	863 CANOWINDRA 66KV FEEDER BAY	A01135/5	A	\$ 143,000	\$ 1,956,284	No	2023/24
COSCW24L2	863 CANOWINDRA 66KV FEEDER BAY	A01136/1	A	\$ 143,000	\$ 1,956,284	No	2023/24
COSFB22H1	2 SECTION 132KV BUSBAR	A01223/1	A	\$ 189,000	\$ 8,539,655	No	2023/24
COSFB22H1	2 SECTION 132KV BUSBAR	A01223/2	A	\$ 189,000	\$ 8,539,655	No	2023/24
COSFB22H2	1 SECTION 132KV BUSBAR	A01223/3	A	\$ 189,000	\$ 8,539,655	No	2023/24
COSFB22H2	1 SECTION 132KV BUSBAR	A01223/4	A	\$ 189,000	\$ 8,539,655	No	2023/24
COSFB22H2	1 SECTION 132KV BUSBAR	A01223/5	A	\$ 189,000	\$ 8,539,655	No	2023/24

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Bay	Bay Description	Equipment Number	Option Name	Capex	NPV (weighted)	ALARP	Optimal timing
COSFB24Q1	2 SECTION 66KV BUSBAR	A01202/5	A	\$ 143,000	\$ 8,566,149	No	2023/24
COSFB24Q1	2 SECTION 66KV BUSBAR	A01203/5	A	\$ 143,000	\$ 8,566,149	No	2023/24
COSFB24Q1	2 SECTION 66KV BUSBAR	A01203/6	A	\$ 143,000	\$ 8,566,149	No	2023/24
COSFB24Q1	2 SECTION 66KV BUSBAR	A01203/7	A	\$ 143,000	\$ 8,566,149	No	2023/24
COSFB24Q1	2 SECTION 66KV BUSBAR	A01204/2	A	\$ 143,000	\$ 8,566,149	No	2023/24
COSFB24Q2	1 SECTION 66KV BUSBAR	A01202/7	A	\$ 143,000	\$ 8,566,149	No	2023/24
COSFB24Q2	1 SECTION 66KV BUSBAR	A01202/8	A	\$ 143,000	\$ 8,566,149	No	2023/24
COSFB24Q2	1 SECTION 66KV BUSBAR	A01203/1	A	\$ 143,000	\$ 8,566,149	No	2023/24
COSFB24Q2	1 SECTION 66KV BUSBAR	A01203/2	A	\$ 143,000	\$ 8,566,149	No	2023/24
COSFB24Q2	1 SECTION 66KV BUSBAR	A01203/3	A	\$ 143,000	\$ 8,566,149	No	2023/24
COSFB24Q2	1 SECTION 66KV BUSBAR	A01203/4	A	\$ 143,000	\$ 8,566,149	No	2023/24
COSFB24Q2	1 SECTION 66KV BUSBAR	EC00009953	A	\$ 143,000	\$ 8,566,149	No	2023/24
COSWL12BB	B SECTION 132KV BUSBAR	EC00002810	A	\$ 189,000	\$ 849,280	No	2023/24
COSWL12BB	B SECTION 132KV BUSBAR	EC00002812	A	\$ 189,000	\$ 849,280	No	2023/24
COSWL12BB	B SECTION 132KV BUSBAR	EC00002961	A	\$ 189,000	\$ 849,280	No	2023/24
COSWL12BB	B SECTION 132KV BUSBAR	EC00002971	A	\$ 189,000	\$ 849,280	No	2023/24
COSWL12BB	B SECTION 132KV BUSBAR	EC00002974	A	\$ 189,000	\$ 849,280	No	2023/24
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002809	A	\$ 189,000	\$ 849,280	No	2023/24
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002963	A	\$ 189,000	\$ 849,280	No	2023/24
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002964	A	\$ 189,000	\$ 849,280	No	2023/24
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002965	A	\$ 189,000	\$ 849,280	No	2023/24
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002972	A	\$ 189,000	\$ 849,280	No	2023/24
COSWL12L1	A1 SECTION 132KV BUSBAR	EC00002973	A	\$ 189,000	\$ 849,280	No	2023/24
COSWL12L2	A2 SECTION 132KV BUSBAR	EC00002811	A	\$ 189,000	\$ 2,058,300	No	2023/24
COSWL12L2	A2 SECTION 132KV BUSBAR	EC00002814	A	\$ 189,000	\$ 2,058,300	No	2023/24
COSWL12L2	A2 SECTION 132KV BUSBAR	EC00002967	A	\$ 189,000	\$ 2,058,300	No	2023/24
COSWL12L2	A2 SECTION 132KV BUSBAR	EC00002969	A	\$ 189,000	\$ 2,058,300	No	2023/24
COSWL12L2	A2 SECTION 132KV BUSBAR	EC00002975	A	\$ 189,000	\$ 2,058,300	No	2023/24
NNSKS22BB3	NO3 SECTION 132KV BUSBAR	A08605/2	A	\$ 189,000	\$ 229,229	No	2023/24

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Bay	Bay Description	Equipment Number	Option Name	Capex	NPV (weighted)	ALARP	Optimal timing
NNSMRK2G1	NO1 SECTION 132KV BUSBAR	EC00003084	B	\$ 42,666	\$ 274,891	No	2023/24
NNSMRK2G1	NO1 SECTION 132KV BUSBAR	EC00003096	B	\$ 42,666	\$ 274,891	No	2023/24
NNSTGH2H1	NO1 SECTION 132KV BUSBAR	EC00009225	B	\$ 42,666	\$ 3,281,556	No	2023/24
NNSTGH2H1	NO1 SECTION 132KV BUSBAR	EC00009226	B	\$ 42,666	\$ 3,281,556	No	2023/24
NNSTGH2H1	NO1 SECTION 132KV BUSBAR	EC00009227	B	\$ 42,666	\$ 3,281,556	No	2023/24
NNSTRE2BA1	SECTION X 132KV A BUSBAR	A09069/1	B	\$ 42,666	\$ 5,450,702	No	2023/24
NNSTRE2BA1	SECTION X 132KV A BUSBAR	A09069/6	A	\$ 189,000	\$ 20,648,724	No	2023/24
NNSTRE2BA1	SECTION X 132KV A BUSBAR	A09069/9	A	\$ 189,000	\$ 21,798,501	No	2023/24
NNSTRE2BA2	SECTION Y 132KV A BUSBAR	A09070/7	A	\$ 189,000	\$ 22,991,537	No	2023/24
NNSTRE2BA2	SECTION Y 132KV A BUSBAR	A09071/1	A	\$ 189,000	\$ 21,798,501	No	2023/24
NNSTRE2BA2	SECTION Y 132KV A BUSBAR	A09071/5	A	\$ 189,000	\$ 21,798,501	No	2023/24
NNSTRE2BB1	SECTION X 132KV B BUSBAR	A09069/2	A	\$ 189,000	\$ 21,798,501	No	2023/24
NNSTRE2BB1	SECTION X 132KV B BUSBAR	A09069/8	A	\$ 189,000	\$ 21,798,501	No	2023/24
NNSTRE2BB1	SECTION X 132KV B BUSBAR	A09070/1	A	\$ 189,000	\$ 21,798,501	No	2023/24
NNSTRE2BB3	SECTION Z 132KV B BUSBAR	A09071/2	A	\$ 189,000	\$ 21,798,501	No	2023/24
NNSTRE2BB3	SECTION Z 132KV B BUSBAR	A09071/3	A	\$ 189,000	\$ 21,798,501	No	2023/24
NNSTRE2BB3	SECTION Z 132KV B BUSBAR	A09072/4	A	\$ 189,000	\$ 31,094,823	No	2023/24
NTSCOF2BB3	NO3 SECTION 132KV BUSBAR	T00126/3	B	\$ 42,666	\$ 147,631	No	2023/24
NTSCOF2BB3	NO3 SECTION 132KV BUSBAR	T00127/3	B	\$ 42,666	\$ 147,631	No	2023/24
NTSCOF2BB3	NO3 SECTION 132KV BUSBAR	T00128/1	B	\$ 42,666	\$ 147,631	No	2023/24
NTSCOF2BB3	NO3 SECTION 132KV BUSBAR	T00128/2	B	\$ 42,666	\$ 147,631	No	2023/24
NTSTA11F2	NO3 SECTION 330KV BUSBAR	A08676/1	A	\$ 234,000	\$ 1,197,987	No	2023/24
NTSTA11F2	NO3 SECTION 330KV BUSBAR	A08676/2	A	\$ 234,000	\$ 1,197,987	No	2023/24
NTSTA11F2	NO3 SECTION 330KV BUSBAR	A08676/5	A	\$ 234,000	\$ 1,197,987	No	2023/24
NTSTA11F2	NO3 SECTION 330KV BUSBAR	A08676/7	A	\$ 234,000	\$ 1,197,987	No	2023/24
NTSTA11F2	NO3 SECTION 330KV BUSBAR	A08677/5	A	\$ 234,000	\$ 1,009,916	No	2023/24
NTSTA11F2	NO3 SECTION 330KV BUSBAR	A08678/2	A	\$ 234,000	\$ 1,009,916	No	2023/24
SWSTU22F1	NO1 SECTION 132KV BUSBAR	A07252/2	A	\$ 189,000	\$ 8,383,137	No	2023/24
SWSTU22F1	NO1 SECTION 132KV BUSBAR	A07252/3	A	\$ 189,000	\$ 8,383,137	No	2023/24

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Bay	Bay Description	Equipment Number	Option Name	Capex	NPV (weighted)	ALARP	Optimal timing
SWSTU22F1	NO1 SECTION 132KV BUSBAR	A07252/4	A	\$ 189,000	\$ 8,383,137	No	2023/24
SWSTU22F1	NO1 SECTION 132KV BUSBAR	A07252/5	A	\$ 189,000	\$ 8,383,137	No	2023/24
SWSTU22F2	NO2 SECTION 132KV BUSBAR	A07252/6	A	\$ 189,000	\$ 8,383,137	No	2023/24
SWSTU22F2	NO2 SECTION 132KV BUSBAR	A07252/8	A	\$ 189,000	\$ 8,383,137	No	2023/24
SWSTU22F2	NO2 SECTION 132KV BUSBAR	A07252/9	A	\$ 189,000	\$ 8,383,137	No	2023/24
SWSTU24K1	NO1 SECTION 66KV BUSBAR	A07248/2	A	\$ 143,000	\$ 8,409,383	No	2023/24
SWSTU24K1	NO1 SECTION 66KV BUSBAR	A07248/3	A	\$ 143,000	\$ 8,409,383	No	2023/24
SWSTU24K1	NO1 SECTION 66KV BUSBAR	A07248/4	A	\$ 143,000	\$ 8,409,383	No	2023/24
SWSTU24K1	NO1 SECTION 66KV BUSBAR	A07248/6	A	\$ 143,000	\$ 8,409,383	No	2023/24
SWSTU24K1	NO1 SECTION 66KV BUSBAR	A07248/7	A	\$ 143,000	\$ 8,409,383	No	2023/24
SWSTU24K1	NO1 SECTION 66KV BUSBAR	A07248/8	A	\$ 143,000	\$ 8,409,383	No	2023/24
SWSTU24K2	NO2 SECTION 66KV BUSBAR	A07248/9	A	\$ 143,000	\$ 8,409,383	No	2023/24
SWSTU24K2	NO2 SECTION 66KV BUSBAR	A07249/1	A	\$ 143,000	\$ 8,409,383	No	2023/24
SWSTU24K2	NO2 SECTION 66KV BUSBAR	A07249/2	A	\$ 143,000	\$ 8,409,383	No	2023/24
SWSTU24K2	NO2 SECTION 66KV BUSBAR	A07249/4	A	\$ 143,000	\$ 8,409,383	No	2023/24
SWSTU24K2	NO2 SECTION 66KV BUSBAR	A07249/5	A	\$ 143,000	\$ 8,409,383	No	2023/24
SWSTU24K2	NO2 SECTION 66KV BUSBAR	A07249/8	A	\$ 143,000	\$ 8,409,383	No	2023/24
SWSYA22BB2	NO2 SECTION 132KV BUSBAR	A07440/5	A	\$ 189,000	\$ 17,613,197	No	2023/24
SYSYCA12N1	A1 SECTION 132KV BUSBAR	A06586/4	A	\$ 189,000	\$ 941,083	No	2023/24
SYSYCA12N1	A1 SECTION 132KV BUSBAR	A06589/7	A	\$ 143,000	\$ 969,975	No	2023/24
SYSYCA12N1	A1 SECTION 132KV BUSBAR	EC00001373	B	\$ 42,666	\$ 142,120	No	2023/24
SYSYCA12N1	A1 SECTION 132KV BUSBAR	EC00001379	B	\$ 42,666	\$ 142,120	No	2023/24
SYSYCA12N2	A2 SECTION 132KV BUSBAR	A06583/4	A	\$ 189,000	\$ 941,083	No	2023/24
SYSYCA12N2	A2 SECTION 132KV BUSBAR	A06586/7	A	\$ 189,000	\$ 941,083	No	2023/24
SYSYCA12N2	A2 SECTION 132KV BUSBAR	A06587/7	A	\$ 189,000	\$ 941,083	No	2023/24
SYSYCA12P2	B2 SECTION 132KV BUSBAR	A06587/4	A	\$ 189,000	\$ 617,646	No	2023/24
SYSMRU2E1	NO1 SECTION 132KV BUSBAR	EC00012063	B	\$ 42,666	\$ 2,337,715	No	2023/24
SYSMRU2E1	NO1 SECTION 132KV BUSBAR	EC00012065	B	\$ 42,666	\$ 2,337,715	No	2023/24
SYSMRU2E1	NO1 SECTION 132KV BUSBAR	EC00012066	B	\$ 42,666	\$ 2,337,715	No	2023/24

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Bay	Bay Description	Equipment Number	Option Name	Capex	NPV (weighted)	ALARP	Optimal timing
SYSMRU2E2	NO2 SECTION 132KV BUSBAR	EC00012064	B	\$ 42,666	\$ 2,337,715	No	2023/24
SYSMRU2E2	NO2 SECTION 132KV BUSBAR	EC00012067	B	\$ 42,666	\$ 2,337,715	No	2023/24
SYSMRU2E2	NO2 SECTION 132KV BUSBAR	EC00012068	B	\$ 42,666	\$ 2,337,715	No	2023/24
<b>Total</b>		<b>201</b>		<b>\$ 31,074,997</b>			

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