

5.02.1

Master list of Ausgrid forecast capex portfolio

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1 INTRODUCTION

1.1 What is the purpose of this document?

This document provides a master list of all capital expenditure (capex) projects and programs that relate to Ausgrid's proposed capex forecast for standard control services for the 2019-24 period.

We provide the information required by the National Electricity Rules in relation to:

- Identifying whether a project requires a Regulatory Investment Test for distribution at the time of preparing this proposal
- Identifying each project by a well accepted category. In this case, we have applied the AER's categories of replacement, augmentation, connection, etc.
- Identified whether a project or program relates to a material asset, and if so identified the suburb location of the proposed asset, together with the anticipated or known cost (\$, nominal) of the asset, and categories of distribution services. We have used a definition of an asset in the categories of Distribution Substations, Distribution Mains, Sub-Transmission mains, Zone Substations, Sub-Transmission Substation, Services, etc.

1.2 Where does this document fit with other material in our regulatory proposal?

This document should be read alongside Chapter 5 of our regulatory proposal document, Attachment 5.01 (Ausgrid's proposed capital expenditure) and all other supporting capex attachments. These provide context and information relating to each of the projects and programs.

1.3 Structure and contents

For the convenience of the Australian Energy Regulator, we have provided the master capex list both in PDF format (see Section 2 below) and in Excel format (see Attachment 5.02.2).

2 LIST OF PROJECTS AND PROGRAMS

The following table is the master list of Ausgrid's capex projects and programs for the 2019-24 regulatory period.

The columns have the following information:

- Ausgrid's regulatory ID identifier
- Project program description
- The Program category and principal driver in our internal systems and reporting processes
- The forecast capex for 2019-24 by regulatory year (\$, nominal)
- Grouping as it relates to Ausgrid's capital plan
- AER category of capex
- Whether the project (over \$5 million) requires the regulatory investment test for distribution
- The primary/material asset category comprised in the program or project capex, the suburb location of a major project or various if a program with multiple locations, and the categories of distribution services it provides.
- Life Extension indicator referenced in the Repex modelling
- The forecast capex for 2019-24 by regulatory year (\$real 2019, Direct)

| PIP ID | Project / Program Description | Investment Reason | Principle Driver | Total (\$nominal) 2019/20 | Total (\$nominal) 2020/21 | Total (\$nominal) 2021/22 | Total (\$nominal) 2022/23 | Total (\$nominal) 2023/24 | GROUPING | AER Category of Capex | Category of Distribution Service | RIT-D required | Material Asset | Location | Life Extension | Direct (\$real, FY19) 2019/20 | Direct (\$real, FY19) 2020/21 | Direct (\$real, FY19) 2021/22 | Direct (\$real, FY19) 2022/23 | Direct (\$real, FY19) 2023/24 |
|------------------|--|-------------------|------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------|-----------------------|----------------------------------|----------------|---------------------------|----------------|----------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| ARA_01.1.0026 | DECOM 132KV FDR 928/3 & 929/1 LCOVE-DAL | Major Projects | Renewal | \$ - | \$ 286,014 | \$ 2,758,072 | \$ 535,576 | \$ - | REP & DOC | Replacement | Standard Control | No | Sub-Transmission Mains | LANE COVE | - | \$ - | \$ 166,942 | \$ 2,265,239 | \$ 461,139 | \$ - |
| ARA_01.1.0028A | REP 132KV FDR 95A & 92P | Major Projects | Renewal | \$ 222,372 | \$ 504,291 | \$ 1,039,450 | \$ 11,816,387 | \$ 10,203,319 | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | ALEXANDRIA | - | \$ 212,562 | \$ 470,288 | \$ 945,720 | \$ 10,488,658 | \$ 8,835,946 |
| ARA_01.1.0030A | REP 132KV FDR 91A/1 & 91B/1 BFLD-ST PET | Major Projects | Renewal | \$ - | \$ - | \$ - | \$ - | \$ 51,944 | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | BEACONSFIELD | - | \$ - | \$ - | \$ - | \$ - | \$ 28,139 |
| ARA_01.1.0042A | REP 132KV FDR 95E BEACONSFIELD-GREEN SQ | Major Projects | Renewal | \$ 151,667 | \$ 833,930 | \$ 469,212 | \$ 4,844,135 | \$ 995,934 | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | BEACONSFIELD | - | \$ 90,947 | \$ 491,485 | \$ 475,110 | \$ 4,607,624 | \$ 853,158 |
| ARA_01.1.0110 | REP 132KV FDR 91L, 91M & 91M/3 | Major Projects | Renewal | \$ 85,596 | \$ - | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | No | Sub-Transmission Mains | PEAKHURST | - | \$ 81,683 | \$ - | \$ - | \$ - | \$ - |
| ARA_01.1.0111 | REP 132KV FDR 91M/3 BFLD-MILL POND | Major Projects | Renewal | \$ 657,266 | \$ 970,757 | \$ 2,504,305 | \$ 10,233,510 | \$ 2,480,298 | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | BEACONSFIELD | - | \$ 394,906 | \$ 573,418 | \$ 2,409,767 | \$ 9,517,075 | \$ 2,090,562 |
| ARA_01.1.0128 | REP 132KV FDR 202 ROZELLE-DRUMMOYNE | Major Projects | Renewal | \$ - | \$ - | \$ - | \$ - | \$ 272,266 | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | ROZELLE | - | \$ - | \$ - | \$ - | \$ - | \$ 147,909 |
| ARA_01.1.0129 | REP 132KV FDR 203 & 204 MPARK-DRUMMOYNE | Major Projects | Renewal | \$ - | \$ - | \$ - | \$ - | \$ 272,266 | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | DRUMMOYNE | - | \$ - | \$ - | \$ - | \$ - | \$ 147,909 |
| ARA_02.1.0016 | DECOM 132KV FDR 92L/3 & 92M/1 LCOVE-DAL | Major Projects | Renewal | \$ 1,192,367 | \$ - | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | No | Sub-Transmission Mains | LANE COVE | - | \$ 1,014,714 | \$ - | \$ - | \$ - | \$ - |
| ARA_02.1.0017 | DECOM 132KV FDR 929/2, 92L/1, 928/1 & 92M/2 | Major Projects | Renewal | \$ - | \$ - | \$ - | \$ 375,475 | \$ 1,359,730 | REP & DOC | Replacement | Standard Control | No | Sub-Transmission Mains | LANE COVE | - | \$ - | \$ - | \$ - | \$ 232,575 | \$ 1,119,651 |
| ARA_02.1.0127 | DECOM 33/11KV CITY EAST ZN | Major Projects | Renewal | \$ 4,841,284 | \$ 7,802,979 | \$ 3,484,753 | \$ - | \$ - | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | SYDNEY | - | \$ 4,299,737 | \$ 6,761,112 | \$ 2,945,819 | \$ - | \$ - |
| ARA_02.1.0134A | DECOM 132/11KV DALLEY ST ZN | Major Projects | Renewal | \$ 700,439 | \$ 496,449 | \$ 928,654 | \$ 4,458,940 | \$ 3,353,406 | REP & DOC | Replacement | Standard Control | Yes | Zone Substation Equipment | SYDNEY | - | \$ 420,868 | \$ 293,904 | \$ 870,520 | \$ 4,087,888 | \$ 2,583,307 |
| ARA_02.1.0135A | LT 11KV TO DECOM DALLEY ST ZN | Major Projects | Renewal | \$ 3,999,383 | \$ 1,606,563 | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | Yes | HV Distribution Mains | SYDNEY | - | \$ 3,606,498 | \$ 1,413,406 | \$ - | \$ - | \$ - |
| ARA_03.1A.0005 | DECOM DARLINGHURST ZN STG1 | Major Projects | Renewal | \$ 393,163 | \$ 3,050,101 | \$ 21,085 | \$ - | \$ - | REP & DOC | Replacement | Standard Control | No | Sub-Transmission Mains | DARLINGHURST | - | \$ 341,058 | \$ 2,826,853 | \$ 17,128 | \$ - | \$ - |
| ARA_03.1A.0018 | REP 33KV FDR 380, 381 & 382 SHILLS-PAD | Major Projects | Renewal | \$ - | \$ - | \$ 479,895 | \$ 1,231,873 | \$ 6,516,326 | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | PADDINGTON | - | \$ - | \$ - | \$ 274,155 | \$ 781,916 | \$ 5,740,966 |
| ARA_03.1A.0026A | REP 11KV SWG ST PETERS ZN | Major Projects | Renewal | \$ - | \$ - | \$ - | \$ - | \$ 36,636 | REP & DOC | Replacement | Standard Control | Yes | Zone Substation Equipment | ST PETERS | - | \$ - | \$ - | \$ - | \$ - | \$ 19,854 |
| ARA_03.1B.0003 | REP 11KV SWG (GRP 2 & 3) BOTANY ZN | Major Projects | Renewal | \$ 5,352 | \$ - | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | No | Zone Substation Equipment | BOTANY | - | \$ 4,745 | \$ - | \$ - | \$ - | \$ - |
| ARA_03.1B.0010 | REP 33KV REACTOR BUNNERONG STS | Major Projects | Renewal | \$ - | \$ - | \$ 39,798 | \$ 1,606,411 | \$ 4,245,628 | REP & DOC | Replacement | Standard Control | Yes | Zone Substation Equipment | MATRAVILLE | - | \$ - | \$ - | \$ 22,638 | \$ 989,010 | \$ 3,327,040 |
| ARA_03.1B.0016 | REP 11KV SWG (GRP 1,2 & 4) MATRAVILLE ZN | Major Projects | Renewal | \$ 1,421,210 | \$ - | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | No | Zone Substation Equipment | MATRAVILLE | - | \$ 1,065,424 | \$ - | \$ - | \$ - | \$ - |
| ARA_03.1B.0017 | NEW 132/11KV MASCOT EAST & DECOM MASCOT | Major Projects | Renewal | \$ - | \$ 97,283 | \$ 1,488,357 | \$ 2,610,811 | \$ 20,139,251 | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | MASCOT | - | \$ - | \$ 56,866 | \$ 852,808 | \$ 1,653,817 | \$ 15,876,736 |
| ARA_03.1B.0023 | REP 33KV FDR 313, 318, 324, 340 BNRG-MAT | Major Projects | Renewal | \$ - | \$ - | \$ - | \$ 367,359 | \$ 847,463 | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | MATRAVILLE | - | \$ - | \$ - | \$ - | \$ 204,747 | \$ 532,348 |
| ARA_03.1B.0029A | REP 33KV FDR 331, 345, 352, 359 BNRG-AIR | Major Projects | Renewal | \$ 9,836,660 | \$ 6,047,084 | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | SYDNEY AIRPORT | - | \$ 8,653,428 | \$ 5,189,946 | \$ - | \$ - | \$ - |
| ARA_03.1B.0030A | NEW 11KV UFLS EASTERN SUBURBS | Major Projects | Compliance | \$ 74,227 | \$ - | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | No | Zone Substation Equipment | VARIOUS | - | \$ 54,201 | \$ - | \$ - | \$ - | \$ - |
| ARA_03.1B.0032A | REP 11KV SWG (GRP 1) BOTANY ZN | Major Projects | Renewal | \$ - | \$ - | \$ 240,292 | \$ 1,123,495 | \$ 4,610,012 | REP & DOC | Replacement | Standard Control | Yes | Zone Substation Equipment | BOTANY | - | \$ - | \$ - | \$ 137,041 | \$ 645,956 | \$ 3,252,036 |
| ARA_03.1B.0033A | REP 11KV SWG (GRP 3) MATRAVILLE ZN | Major Projects | Renewal | \$ - | \$ - | \$ - | \$ - | \$ 249,376 | REP & DOC | Replacement | Standard Control | Yes | Zone Substation Equipment | MATRAVILLE | - | \$ - | \$ - | \$ - | \$ - | \$ 135,370 |
| ARA_03.1B.0034A | REA 33KV BUSBAR SYDNEY DOMESTIC ZN | Major Projects | Renewal | \$ 4,993,052 | \$ 550,459 | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | No | Zone Substation Equipment | MASCOT | - | \$ 3,552,026 | \$ 364,655 | \$ - | \$ - | \$ - |
| ARA_03.1C.0004 | REP 11KV SWG SURRY HILLS ZN | Major Projects | Renewal | \$ 5,663,475 | \$ 81,264 | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | No | Zone Substation Equipment | SURRY HILLS | - | \$ 4,305,240 | \$ 60,268 | \$ - | \$ - | \$ - |
| ARA_03.1C.0006 | NEW 132/11KV ALEXANDRIA NTH ZN & DECOM ZETLND ZN | Major Projects | Renewal | \$ 578,239 | \$ 2,061,140 | \$ 11,388,264 | \$ 20,178,044 | \$ 6,930,358 | REP & DOC | Replacement | Standard Control | Yes | Zone Substation Equipment | SURRY HILLS | - | \$ 347,064 | \$ 1,249,262 | \$ 8,929,886 | \$ 17,212,752 | \$ 5,655,220 |
| ARA_03.1C.0007 | REP 33KV FDR 383, 384 & 385 SURRY HILLS | Major Projects | Renewal | \$ - | \$ 97,283 | \$ 1,345,492 | \$ 881,739 | \$ 3,603,511 | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | SURRY HILLS | - | \$ - | \$ 56,866 | \$ 771,438 | \$ 894,981 | \$ 3,344,029 |
| ARA_03.1C.0014 | DECOM 11KV SWG (GRP1) CLOVELLY ZN | Major Projects | Renewal | \$ 606,217 | \$ - | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | No | Zone Substation Equipment | CLOVELLY | - | \$ 560,092 | \$ - | \$ - | \$ - | \$ - |
| ARA_03.1C.0021 | DECOM 132/11KV CLOVELLY ZN | Major Projects | Renewal | \$ - | \$ 31,136 | \$ 933,937 | \$ 5,578,107 | \$ 7,722,001 | REP & DOC | Replacement | Standard Control | Yes | Zone Substation Equipment | CLOVELLY | - | \$ - | \$ 18,171 | \$ 534,123 | \$ 3,520,043 | \$ 5,606,309 |
| ARA_03.1C.0022 | NEW 132KV FDR CLOV-KINGSFD & DECOM 260/2 & 261/2 | Major Projects | Renewal | \$ 4,670,905 | \$ 13,467,802 | \$ 1,757,769 | \$ - | \$ - | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | RANDWICK | - | \$ 4,472,508 | \$ 12,581,232 | \$ 1,602,008 | \$ - | \$ - |
| ARA_03.1C.0028 | DECOM 132KV FDR 262 DBAY-CLOVELLY | Major Projects | Renewal | \$ - | \$ - | \$ - | \$ 489,811 | \$ 1,128,391 | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | CLOVELLY | - | \$ - | \$ - | \$ - | \$ 272,996 | \$ 718,313 |
| ARA_03.1C.0030 | DECOM 132KV FDRS 260/1 & 261/1 | Major Projects | Renewal | \$ - | \$ - | \$ 2,504 | \$ 80,592 | \$ 732,468 | REP & DOC | Replacement | Standard Control | No | Sub-Transmission Mains | BEACONSFIELD | - | \$ - | \$ - | \$ 1,425 | \$ 45,072 | \$ 585,550 |
| ARA_03.1C.0038A | REP 132KV FDR 264 BFLD-KINGSFORD | Major Projects | Renewal | \$ - | \$ - | \$ 35,314 | \$ 1,059,175 | \$ 3,049,547 | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | KINGSFORD | - | \$ - | \$ - | \$ 20,106 | \$ 590,973 | \$ 2,474,676 |
| ARA_03.1C.0039A | REP 132KV FDR 265 BNRONG-MAROUBRA | Major Projects | Renewal | \$ - | \$ 34,596 | \$ 1,037,707 | \$ 2,364,252 | \$ 16,075,390 | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | MAROUBRA | - | \$ - | \$ 20,190 | \$ 593,470 | \$ 1,947,541 | \$ 14,496,149 |
| ARA_03.1C.0041A | REP 132KV FDR 270 KINGSFORD-MAROUBRA | Major Projects | Renewal | \$ - | \$ - | \$ - | \$ 367,359 | \$ 809,481 | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | KINGSFORD | - | \$ - | \$ - | \$ - | \$ 204,747 | \$ 519,712 |
| ARA_04.1.0005 | REP 11KV SWG RIVERWOOD ZN | Major Projects | Renewal | \$ - | \$ - | \$ - | \$ 601,057 | \$ 1,770,853 | REP & DOC | Replacement | Standard Control | Yes | Zone Substation Equipment | RIVERWOOD | - | \$ - | \$ - | \$ - | \$ 334,919 | \$ 1,005,642 |
| ARA_04.1.0010 | LT 11KV & DECOM 33/11KV ARNCUFFE ZN | Major Projects | Renewal | \$ 565,741 | \$ - | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | No | Zone Substation Equipment | ARNCUFFE | - | \$ 512,064 | \$ - | \$ - | \$ - | \$ - |
| ARA_04.1.0029 | REP 33KV SWG PEAKHURST STS | Major Projects | Renewal | \$ 7,368,144 | \$ 8,567,609 | \$ 4,061,047 | \$ - | \$ - | REP & DOC | Replacement | Standard Control | Yes | Zone Substation Equipment | PEAKHURST | - | \$ 5,861,654 | \$ 6,649,639 | \$ 3,075,054 | \$ - | \$ - |
| ARA_04.2.0030 | REP 11KV SWG MIRANDA ZN | Major Projects | Renewal | \$ - | \$ 410,874 | \$ 1,642,875 | \$ 4,210,379 | \$ 6,167,403 | REP & DOC | Replacement | Standard Control | Yes | Zone Substation Equipment | MIRANDA | - | \$ - | \$ 240,505 | \$ 950,306 | \$ 2,735,512 | \$ 4,547,356 |
| ARA_04.3A.0001 | REA 132KV FDR 911 & 912 STRATHFIELD STH | Major Projects | Renewal | \$ 1,439,296 | \$ 97,152 | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | No | Zone Substation Equipment | ENFIELD | - | \$ 1,198,708 | \$ 78,939 | \$ - | \$ - | \$ - |
| ARA_04.3A.0007 | NEW 132/11KV STRATHFIELD, DECOM ENFIELD | Major Projects | Renewal | \$ 11,083,814 | \$ 4,156,430 | \$ 692,738 | \$ - | \$ - | REP & DOC | Replacement | Standard Control | Yes | Zone Substation Equipment | ENFIELD | - | \$ 9,482,209 | \$ 3,469,102 | \$ 564,082 | \$ - | \$ - |
| ARA_04.3A.0014 | NEW 132/11KV GREENACRE, DECOM ZN | Major Projects | Renewal | \$ 6,779,890 | \$ - | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | No | Zone Substation Equipment | GREENACRE | - | \$ 5,797,974 | \$ - | \$ - | \$ - | \$ - |
| ARA_04.3A.0019 | NEW 33/11KV SUMMER HILL, DECOM DULWICH | Major Projects | Renewal | \$ 95,723 | \$ - | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | No | Zone Substation Equipment | SUMMER HILL | - | \$ 79,955 | \$ - | \$ - | \$ - | \$ - |
| ARA_04.3A.0033A | DECOM 132KV FDR 291 & 292 POTTOS HILL-GREENACRE PK | Major Projects | Renewal | \$ - | \$ 107,934 | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | No | Sub-Transmission Mains | GREENACRE | - | \$ - | \$ 89,612 | \$ - | \$ - | \$ - |
| ARA_04.3B.0008 | REP 11KV SWG MILPERRA ZN | Major Projects | Renewal | \$ - | \$ - | \$ - | \$ 187,406 | \$ 1,173,688 | REP & DOC | Replacement | Standard Control | Yes | Zone Substation Equipment | MILPERRA | - | \$ - | \$ - | \$ - | \$ 104,353 | \$ 641,774 |
| ARA_04.3B.0036A | REP 132KV FDR 282/1 & 283/1 S SOUTH-REVESBY | Major Projects | Renewal | \$ 4,988,072 | \$ 9,976,143 | \$ 4,956,896 | \$ - | \$ - | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | REVESBY | - | \$ 4,741,103 | \$ 9,250,939 | \$ 4,484,451 | \$ - | \$ - |
| ARA_04.4.A.0010 | REP 132KV SWG DRUMMOYNE ZN | Major Projects | Renewal | \$ - | \$ - | \$ - | \$ 401,585 | \$ 2,365,658 | REP & DOC | Replacement | Standard Control | Yes | Zone Substation Equipment | DRUMMOYNE | - | \$ - | \$ - | \$ - | \$ 223,614 | \$ 1,294,145 |
| ARA_04.4.B.0002 | REP 11KV SWG CONCORD ZN | Major Projects | Renewal | \$ - | \$ 95,143 | \$ 1,188,666 | \$ 6,393,857 | \$ 15,332,030 | REP & DOC | Replacement | Standard Control | Yes | Zone Substation Equipment | CONCORD | - | \$ - | \$ 55,589 | \$ 682,071 | \$ 4,123,542 | \$ 11,317,418 |
| ARA_04.4.B.0007 | DECOM 132/33KV STRATHFIELD STS | Major Projects | Renewal | \$ 346,508 | \$ 115,503 | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | No | Zone Substation Equipment | STRATHFIELD | - | \$ 287,589 | \$ 93,525 | \$ - | \$ - | \$ - |
| ARA_04.4.B.0010 | REP 132KV FDR 90A & 90L MPARK-HOMEBUSH | Major Projects | Renewal | \$ 4,241,478 | \$ 3,599,996 | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | No | Sub-Transmission Mains | HOMEBUSH WEST | - | \$ 3,141,573 | \$ 2,601,407 | \$ - | \$ - | \$ - |
| ARA_04.4.B.0022A | REP 132KV FDR 923/2 & 924/2 MPARK-BURWOOD | Major Projects | Renewal | \$ 202,222 | \$ 1,080,661 | \$ 1,258,178 | \$ 5,746,256 | \$ 1,681,753 | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | ROZELLE | - | \$ 121,262 | \$ 637,030 | \$ 1,282,748 | \$ 5,417,959 | \$ 1,394,220 |
| ARA_04.4.C.0008 | REP 33KV FDRS HOMEBUSH-AUBURN/LIDCOMBE | Major Projects | Renewal | \$ 8,076,715 | \$ 2,445,637 | \$ 1,154,005 | \$ - | \$ - | REP & DOC | Replacement | Standard Control | Yes | Sub-Transmission Mains | AUBURN | - | \$ 6,710,861 | \$ 1,982,494 | \$ 912,649 | \$ - | \$ - |
| ARA_04.4.C.0009 | REP 11KV SWG (GRP 2) LIDCOMBE ZN | Major Projects | Renewal | \$ 2,461,396 | \$ 2,510,419 | \$ 222,064 | \$ - | \$ - | REP & DOC | Replacement | Standard Control | Yes | Zone Substation Equipment | LIDCOMBE | - | \$ 1,969,534 | \$ 1,959,767 | \$ 169,127 | \$ - | \$ - |
| ARA_04.4.C.0018 | LT 11KV FLEMINGTON-OLYMPIC PK & DECOM 11KV SWG | Major Projects | Renewal | \$ 3,261,171 | \$ 1,236,463 | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | Yes | Zone Substation Equipment | HOMEBUSH WEST | - | \$ 3,043,649 | \$ 1,125,778 | \$ - | \$ - | \$ - |
| ARA_04.5.0005 | CONV 5-11KV BWB LOAD AND LT 11KV BWB-DHARBUR/CDU | Major Projects | Renewal | \$ 4,178,338 | \$ 827,39 | | | | | | | | | | | | | | | |

| PIP ID | Project / Program Description | Investment Reason | Principle Driver | Total (\$nominal) 2019/20 | Total (\$nominal) 2020/21 | Total (\$nominal) 2021/22 | Total (\$nominal) 2022/23 | Total (\$nominal) 2023/24 | GROUPING | AER Category of Capex | Category of Distribution Service | RIT-D required | Material Asset | Location | Life Extension | Direct (\$real, FY19) 2019/20 | Direct (\$real, FY19) 2020/21 | Direct (\$real, FY19) 2021/22 | Direct (\$real, FY19) 2022/23 | Direct (\$real, FY19) 2023/24 |
|----------------|--|--------------------|------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------|-----------------------|----------------------------------|----------------|---------------------------|----------------|----------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| DOC_11.03.43 | Reactive Electrical Safety - DM | 3 - Reactive Asset | Compliance | \$ 1,706,547 | \$ 1,740,790 | \$ 1,779,273 | \$ 1,819,878 | \$ 1,859,057 | REP & DOC | Replacement | Standard Control | N/A | HV Distribution Mains | Various | - | \$ 1,342,965 | \$ 1,338,003 | \$ 1,335,107 | \$ 1,332,933 | \$ 1,329,476 |
| DOC_11.03.44 | Reactive Electrical Safety - TM | 3 - Reactive Asset | Compliance | \$ 572,970 | \$ 584,466 | \$ 597,387 | \$ 611,020 | \$ 624,174 | REP & DOC | Replacement | Standard Control | N/A | Sub-Transmission Mains | Various | - | \$ 450,898 | \$ 449,231 | \$ 448,259 | \$ 447,529 | \$ 446,368 |
| DOC_11.03.45 | Reactive Electrical Safety - TS | 3 - Reactive Asset | Compliance | \$ 293,389 | \$ 299,276 | \$ 305,892 | \$ 312,873 | \$ 319,608 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 230,882 | \$ 230,209 | \$ 229,531 | \$ 229,157 | \$ 228,563 |
| DOC_11.03.46 | Reactive Electrical Safety - ZN | 3 - Reactive Asset | Compliance | \$ 68,879 | \$ 70,261 | \$ 71,815 | \$ 73,453 | \$ 75,035 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 54,204 | \$ 54,004 | \$ 53,887 | \$ 53,800 | \$ 53,660 |
| DOC_11.03.47 | Reactive OH&S Projects - DM | 3 - Reactive Asset | Compliance | \$ 198,264 | \$ 202,243 | \$ 206,714 | \$ 211,431 | \$ 215,983 | REP & DOC | Replacement | Standard Control | N/A | HV Distribution Mains | Various | - | \$ 156,024 | \$ 155,447 | \$ 155,111 | \$ 154,858 | \$ 154,457 |
| DOC_11.03.48 | Reactive OH&S Projects - DC | 3 - Reactive Asset | Compliance | \$ 308,062 | \$ 314,243 | \$ 321,190 | \$ 328,520 | \$ 335,592 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 242,429 | \$ 241,533 | \$ 241,010 | \$ 240,618 | \$ 239,994 |
| DOC_11.03.49 | Reactive OH&S Projects - TM | 3 - Reactive Asset | Compliance | \$ 3 | \$ 3 | \$ 4 | \$ 4 | \$ 4 | REP & DOC | Replacement | Standard Control | N/A | Sub-Transmission Mains | Various | - | \$ 3 | \$ 3 | \$ 3 | \$ 3 | \$ 3 |
| DOC_11.03.50 | Substation Fencing Upgrade - DC | 1 - Planned | Compliance | \$ 1,252,216 | \$ 1,280,113 | \$ 1,313,679 | \$ 1,350,131 | \$ 1,385,471 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 1,020,765 | \$ 1,019,469 | \$ 1,022,099 | \$ 1,026,281 | \$ 1,029,086 |
| DOC_11.03.52 | Asbestos Fire Doors - DC | 3 - Reactive Asset | Compliance | \$ 176,908 | \$ 180,458 | \$ 184,447 | \$ 188,656 | \$ 192,718 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | Y | \$ 139,217 | \$ 138,703 | \$ 138,403 | \$ 138,177 | \$ 137,819 |
| DOC_11.03.53 | Asbestos Fire Doors - TS | 3 - Reactive Asset | Compliance | \$ 689 | \$ 703 | \$ 719 | \$ 735 | \$ 751 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | Y | \$ 543 | \$ 541 | \$ 539 | \$ 539 | \$ 537 |
| DOC_11.03.54 | Asbestos Fire Doors - ZN | 1 - Planned | Compliance | \$ 1,550,866 | \$ 1,575,613 | \$ 1,602,573 | \$ 1,636,690 | \$ 1,677,215 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | Y | \$ 1,330,816 | \$ 1,319,150 | \$ 1,308,544 | \$ 1,303,900 | \$ 1,304,838 |
| DOC_11.03.57 | Reactive Asbestos Projects - DC | 3 - Reactive Asset | Compliance | \$ 369,865 | \$ 377,287 | \$ 385,628 | \$ 394,428 | \$ 402,919 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 291,065 | \$ 289,990 | \$ 289,362 | \$ 288,891 | \$ 288,141 |
| DOC_11.03.58 | Reactive Asbestos Projects - DM | 3 - Reactive Asset | Compliance | \$ 64,757 | \$ 66,056 | \$ 67,517 | \$ 69,057 | \$ 70,544 | REP & DOC | Replacement | Standard Control | N/A | HV Distribution Mains | Various | - | \$ 50,960 | \$ 50,772 | \$ 50,662 | \$ 50,580 | \$ 50,448 |
| DOC_11.03.61 | Reactive Asbestos Projects - ZN | 3 - Reactive Asset | Compliance | \$ 2,804 | \$ 2,860 | \$ 2,924 | \$ 2,990 | \$ 3,055 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 2,207 | \$ 2,198 | \$ 2,194 | \$ 2,190 | \$ 2,184 |
| DOC_11.03.65 | Mackellar Chamber Substation Safety - DC | 1 - Planned | Compliance | \$ 160,826 | \$ 163,921 | \$ 167,844 | \$ 172,844 | \$ 178,423 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Mackellar | - | \$ 121,163 | \$ 120,617 | \$ 120,137 | \$ 119,713 | \$ 119,311 |
| DOC_11.03.66 | Fire Fighting Water Storage Tanks - ZN | 3 - Reactive Asset | Compliance | \$ 23,571 | \$ 24,044 | \$ 24,575 | \$ 25,136 | \$ 25,727 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 18,549 | \$ 18,480 | \$ 18,440 | \$ 18,410 | \$ 18,363 |
| DOC_11.03.69 | Siemens 8DN8 Circuitry Modification - ZN | 1 - Planned | Compliance | \$ 347,079 | \$ 356,688 | \$ 367,491 | \$ 379,449 | \$ 393,175 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 218,976 | \$ 217,973 | \$ 217,158 | \$ 216,420 | \$ 215,766 |
| DOC_11.03.70 | Siemens 8DN8 Circuitry Modification - TS | 1 - Planned | Compliance | \$ 113,729 | \$ 116,441 | \$ 119,206 | \$ 122,028 | \$ 124,907 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 89,499 | \$ 88,922 | \$ 88,396 | \$ 87,915 | \$ 87,476 |
| DOC_11.03.71 | Long Spans - DM | 2 - Conditional | Compliance | \$ 96,805 | \$ 98,747 | \$ 100,930 | \$ 103,233 | \$ 105,456 | REP & DOC | Replacement | Standard Control | N/A | HV Distribution Mains | Various | - | \$ 76,180 | \$ 75,899 | \$ 75,735 | \$ 75,571 | \$ 75,415 |
| DOC_11.03.73 | DOC Dedicated LV Circuit Reconfiguration | 1 - Planned | Compliance | \$ 13,044,289 | \$ 13,271,250 | \$ 13,552,414 | \$ 13,858,045 | \$ 14,140,092 | REP & DOC | Replacement | Standard Control | N/A | LV Distribution Mains | Various | - | \$ 8,663,704 | \$ 8,606,987 | \$ 8,582,052 | \$ 8,558,635 | \$ 8,538,052 |
| DOC_11.03.74 | DOC Menal Pillar Retrofits - DM | 1 - Planned | Compliance | \$ 157,701 | \$ 160,375 | \$ 163,626 | \$ 167,132 | \$ 170,359 | REP & DOC | Replacement | Standard Control | N/A | LV Distribution Mains | Various | Y | \$ 104,141 | \$ 103,393 | \$ 102,957 | \$ 102,629 | \$ 102,108 |
| DOC_11.03.75 | DOC DNSP/TNSP Compliance - ZN | 1 - Planned | Compliance | \$ 522,213 | \$ 532,017 | \$ 543,374 | \$ 555,461 | \$ 566,909 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 383,522 | \$ 381,606 | \$ 380,489 | \$ 379,649 | \$ 378,314 |
| DOC_11.03.76 | DOC DNSP/TNSP Compliance - TS | 1 - Planned | Compliance | \$ 522,213 | \$ 532,017 | \$ 543,374 | \$ 555,461 | \$ 566,909 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 383,522 | \$ 381,606 | \$ 380,489 | \$ 379,649 | \$ 378,314 |
| DOC_11.03.77 | DOC Substation Lock Upgrade | 1 - Planned | Compliance | \$ 13,005,845 | \$ - | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | Y | \$ 10,559,237 | \$ - | \$ - | \$ - | \$ - |
| DOC_11.04.01 | Oil Containment - ZN | 1 - Planned | Compliance | \$ 6,392,873 | \$ 6,446,617 | \$ 6,502,955 | \$ 6,621,912 | \$ 6,811,590 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | Y | \$ 5,782,442 | \$ 5,685,118 | \$ 5,589,424 | \$ 5,551,565 | \$ 5,576,569 |
| DOC_11.04.03 | Noisy Tx Replacement - ZN | 3 - Reactive Asset | Compliance | \$ 442,153 | \$ 451,025 | \$ 460,996 | \$ 471,516 | \$ 481,667 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 347,952 | \$ 346,666 | \$ 345,916 | \$ 345,352 | \$ 344,456 |
| DOC_11.04.03-2 | Noisy Tx Replacement - DC | 3 - Reactive Asset | Compliance | \$ 52,405 | \$ 53,456 | \$ 54,638 | \$ 55,885 | \$ 57,088 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 41,240 | \$ 41,087 | \$ 40,998 | \$ 40,932 | \$ 40,825 |
| DOC_11.04.05 | Reactive Environmental Projects - DC | 3 - Reactive Asset | Compliance | \$ 94,029 | \$ 95,916 | \$ 98,036 | \$ 100,273 | \$ 102,432 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 73,996 | \$ 73,723 | \$ 73,563 | \$ 73,443 | \$ 73,253 |
| DOC_11.04.05-1 | Reactive Environmental Projects - TS | 3 - Reactive Asset | Compliance | \$ 53,905 | \$ 54,987 | \$ 56,202 | \$ 57,485 | \$ 58,723 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 42,421 | \$ 42,264 | \$ 42,172 | \$ 42,104 | \$ 41,995 |
| DOC_11.04.05-2 | Reactive Environmental Projects - ZN | 3 - Reactive Asset | Compliance | \$ 36,542 | \$ 37,276 | \$ 38,100 | \$ 38,969 | \$ 39,808 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 28,757 | \$ 28,651 | \$ 28,589 | \$ 28,542 | \$ 28,468 |
| DOC_11.05.01 | Electronic Security - ZN | 1 - Planned | Compliance | \$ 979,257 | \$ 988,276 | \$ 998,107 | \$ 1,016,651 | \$ 1,044,573 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | Y | \$ 852,774 | \$ 838,927 | \$ 825,556 | \$ 820,140 | \$ 823,116 |
| DOC_11.05.04 | DOC Under Frequency Load Shedding | 3 - Reactive Asset | Compliance | \$ 260,890 | \$ 266,125 | \$ 272,008 | \$ 278,216 | \$ 284,205 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 205,307 | \$ 204,549 | \$ 204,106 | \$ 203,774 | \$ 203,245 |
| DOC_11.05.05 | Electronic Security - TS | 1 - Planned | Compliance | \$ 1,612,133 | \$ 1,627,087 | \$ 1,643,433 | \$ 1,674,005 | \$ 1,719,819 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | Y | \$ 1,399,459 | \$ 1,376,806 | \$ 1,354,967 | \$ 1,346,102 | \$ 1,350,886 |
| DOC_11.05.07 | Reactive Infrastructure Risk Projects - TS | 3 - Reactive Asset | Compliance | \$ 4,948 | \$ 5,048 | \$ 5,159 | \$ 5,277 | \$ 5,391 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 3,894 | \$ 3,880 | \$ 3,871 | \$ 3,865 | \$ 3,855 |
| DOC_11.05.08 | Reactive Infrastructure Risk Projects - ZN | 3 - Reactive Asset | Compliance | \$ 191,329 | \$ 195,168 | \$ 199,482 | \$ 204,034 | \$ 208,427 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 150,566 | \$ 150,009 | \$ 149,685 | \$ 149,441 | \$ 149,053 |
| DOC_11.05.09 | DOC Mandatory Protection Links | 1 - Planned | Compliance | \$ 125,032 | \$ 127,280 | \$ 129,937 | \$ 132,781 | \$ 135,442 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 87,783 | \$ 87,266 | \$ 86,964 | \$ 86,737 | \$ 86,377 |
| REP_01.02.02 | A,B & C Type Kiosks | 1 - Planned | Renewal | \$ 576,758 | \$ 589,640 | \$ 604,064 | \$ 619,324 | \$ 634,348 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 494,202 | \$ 493,416 | \$ 493,523 | \$ 493,973 | \$ 494,045 |
| REP_01.02.41 | UHC Kiosk Substation | 1 - Planned | Renewal | \$ 358,507 | \$ 365,583 | \$ 373,682 | \$ 382,282 | \$ 390,525 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Muswellbrook | - | \$ 275,435 | \$ 274,340 | \$ 273,784 | \$ 273,421 | \$ 272,749 |
| REP_01.02.42 | OE Subs (chainwire) | 1 - Planned | Renewal | \$ 3,877,723 | \$ 3,964,324 | \$ 4,061,142 | \$ 4,163,508 | \$ 4,264,317 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 3,325,645 | \$ 3,320,320 | \$ 3,320,876 | \$ 3,323,680 | \$ 3,323,980 |
| REP_01.02.43 | HV OCB Subs | 1 - Planned | Renewal | \$ 3,229,187 | \$ 3,294,095 | \$ 3,368,492 | \$ 3,447,586 | \$ 3,532,639 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 2,513,444 | \$ 2,504,418 | \$ 2,500,569 | \$ 2,498,600 | \$ 2,493,863 |
| REP_01.02.44 | STGW Kiosks | 3 - Reactive Asset | Renewal | \$ 272,220 | \$ 277,682 | \$ 283,821 | \$ 290,298 | \$ 296,547 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | ST George Area | - | \$ 214,223 | \$ 213,431 | \$ 212,969 | \$ 212,623 | \$ 212,071 |
| REP_01.02.45 | Statter_ALM_Godfrey HV Fuse Switches | 1 - Planned | Renewal | \$ 989,351 | \$ 1,011,308 | \$ 1,036,418 | \$ 1,063,188 | \$ 1,089,396 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 832,260 | \$ 830,918 | \$ 831,534 | \$ 832,908 | \$ 833,504 |
| REP_01.02.47 | Reynolds JKSS RMIs C_EB | 1 - Planned | Renewal | \$ 1,094,574 | \$ 1,118,896 | \$ 1,150,190 | \$ 1,187,591 | \$ 1,227,097 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 921,504 | \$ 920,042 | \$ 918,793 | \$ 917,803 | \$ 916,758 |
| REP_01.02.48 | Obsolete Subs - DC | 3 - Reactive Asset | Renewal | \$ 1,783,540 | \$ 1,819,327 | \$ 1,859,547 | \$ 1,901,983 | \$ 1,949,930 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 1,403,554 | \$ 1,398,368 | \$ 1,395,342 | \$ 1,393,069 | \$ 1,389,456 |
| REP_01.02.49 | KM Kiosks - Mackellar | 1 - Planned | Renewal | \$ 321,041 | \$ 328,147 | \$ 336,136 | \$ 344,598 | \$ 352,909 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Mackellar | - | \$ 272,457 | \$ 271,981 | \$ 272,019 | \$ 272,253 | \$ 272,267 |
| REP_01.02.52 | Obsolete RMIs & Fss | 1 - Planned | Renewal | \$ 9,016,762 | \$ 9,218,504 | \$ 9,449,532 | \$ 9,696,041 | \$ 9,937,620 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 7,626,296 | \$ 7,615,255 | \$ 7,622,659 | \$ 7,637,242 | \$ 7,644,710 |
| REP_01.02.57 | ABB 11kV Series V EDO Fuse Carriers | 1 - Planned | Renewal | \$ 2,255,795 | \$ 2,295,573 | \$ 2,343,304 | \$ 2,394,638 | \$ 2,442,359 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 1,545,982 | \$ 1,536,244 | \$ 1,530,826 | \$ 1,526,927 | \$ 1,520,431 |
| REP_01.02.59 | REP SCADA Equipment - DC | 1 - Planned | Renewal | \$ 1,964,500 | \$ 2,003,441 | \$ 2,047,445 | \$ 2,093,947 | \$ 2,138,665 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 1,526,545 | \$ 1,520,551 | \$ 1,517,054 | \$ 1,514,427 | \$ 1,510,251 |
| REP_01.02.60 | REP Modems - DC | 1 - Planned | Renewal | \$ 3,795,856 | \$ 3,879,048 | \$ 3,969,024 | \$ 4,062,860 | \$ 4,155,651 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 3,273,085 | \$ 3,266,188 | \$ 3,262,164 | \$ 3,259,142 | \$ 3,254,337 |
| REP_01.02.61 | REP Interripping Schemes - DC | 1 - Planned | Renewal | \$ 939,984 | \$ 957,631 | \$ 978,072 | \$ 999,830 | \$ 1,020,435 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 690,340 | \$ 686,892 | \$ 684,880 | \$ 683,368 | \$ 680,966 |
| REP_01.03.02 | Low Voltage ACB Subs | 1 - Planned | Renewal | \$ 207,369 | \$ 211,594 | \$ 216,319 | \$ 221,649 | \$ 227,519 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 165,634 | \$ 165,070 | \$ 164,749 | \$ 164,457 | \$ 164,165 |
| REP_01.03.04 | Single Circuit Breaker Switchgear | 1 - Planned | Renewal | \$ 2,326,759 | \$ 2,373,600 | \$ 2,427,476 | \$ 2,484,113 | \$ 2,540,719 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 1,809,154 | \$ 1,802,738 | \$ 1,800,226 | \$ 1,797,536 | \$ 1,794,844 |
| REP_01.03.06 | Network Protectors (West CM2/22) | 1 - Planned | Renewal | \$ 6,101,276 | \$ 6,224,061 | \$ 6,364,416 | \$ 6,513,486 | \$ 6,669,932 | REP & DOC | Replacement | Standard Control | N/A | Distribution Substations | Various | - | \$ 4,761,442 | \$ 4,744,414 | \$ 4,736,871 | \$ 4,732,763 | \$ 4,728,519 |
| REP | | | | | | | | | | | | | | | | | | | | |

| PIP ID | Project / Program Description | Investment Reason | Principle Driver | Total (\$nominal) 2019/20 | Total (\$nominal) 2020/21 | Total (\$nominal) 2021/22 | Total (\$nominal) 2022/23 | Total (\$nominal) 2023/24 | GROUPING | AER Category of Capex | Category of Distribution Service | RIT-D required | Material Asset | Location | Life Extension | Direct (\$real, FY19) 2019/20 | Direct (\$real, FY19) 2020/21 | Direct (\$real, FY19) 2021/22 | Direct (\$real, FY19) 2022/23 | Direct (\$real, FY19) 2023/24 |
|--------------|--|--------------------|------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------|-----------------------|----------------------------------|----------------|---------------------------|----------|----------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| REP_02.03.04 | 33kV Circuit Breakers - ZN | 3 - Reactive Asset | Renewal | \$ 38,978 | \$ 39,760 | \$ 40,639 | \$ 41,566 | \$ 42,461 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 30,673 | \$ 30,560 | \$ 30,494 | \$ 30,444 | \$ 30,365 |
| REP_02.03.05 | 132/66kV Bushings - ZN | 1 - Planned | Renewal | \$ 902,071 | \$ 918,998 | \$ 938,609 | \$ 959,484 | \$ 979,251 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 662,129 | \$ 658,813 | \$ 656,880 | \$ 655,427 | \$ 653,118 |
| REP_02.03.07 | Protection Relays - ZN | 3 - Reactive Asset | Renewal | \$ 57,079 | \$ 58,224 | \$ 59,512 | \$ 60,870 | \$ 62,180 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 44,918 | \$ 44,752 | \$ 44,655 | \$ 44,583 | \$ 44,467 |
| REP_02.03.08 | High Priority Relays - ZN | 1 - Planned | Renewal | \$ 1,830,383 | \$ 1,864,467 | \$ 1,904,097 | \$ 1,946,324 | \$ 1,986,223 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 1,332,866 | \$ 1,325,985 | \$ 1,321,971 | \$ 1,318,956 | \$ 1,314,162 |
| REP_02.03.10 | Voltage Regulation Equipment - ZN | 1 - Planned | Renewal | \$ 2,350,657 | \$ 2,391,926 | \$ 2,441,262 | \$ 2,494,237 | \$ 2,543,467 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 1,609,886 | \$ 1,599,574 | \$ 1,593,559 | \$ 1,589,040 | \$ 1,581,857 |
| REP_02.03.11 | Batteries and Battery Charging Equipment - ZN | 1 - Planned | Renewal | \$ 1,050,539 | \$ 1,071,067 | \$ 1,094,414 | \$ 1,119,134 | \$ 1,142,810 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 804,304 | \$ 800,925 | \$ 798,953 | \$ 797,472 | \$ 795,118 |
| REP_02.03.12 | Post CTS - ZN | 2 - Conditional | Renewal | \$ 171,072 | \$ 174,327 | \$ 177,944 | \$ 181,939 | \$ 186,046 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 139,271 | \$ 138,559 | \$ 138,022 | \$ 137,725 | \$ 137,521 |
| REP_02.04.05 | Zone Substation Building Refurbishment/Replacement Works | 2 - Conditional | Renewal | \$ 1,538,850 | \$ 1,561,163 | \$ 1,585,006 | \$ 1,617,888 | \$ 1,660,050 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | Y | \$ 1,367,407 | \$ 1,353,239 | \$ 1,339,782 | \$ 1,334,213 | \$ 1,336,726 |
| REP_02.04.08 | Surge Arrestors - ZN | 3 - Reactive Asset | Renewal | \$ 2,408 | \$ 2,456 | \$ 2,510 | \$ 2,568 | \$ 2,623 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 1,895 | \$ 1,888 | \$ 1,884 | \$ 1,881 | \$ 1,876 |
| REP_02.04.10 | Zone Substation Reactive Replacement Programme - ZN | 3 - Reactive Asset | Renewal | \$ 715,299 | \$ 729,652 | \$ 745,782 | \$ 762,802 | \$ 779,224 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 562,904 | \$ 560,824 | \$ 559,610 | \$ 558,699 | \$ 557,250 |
| REP_03.02.03 | 33kV Bulk Oil OD Circuit Breakers - TS | 3 - Reactive Asset | Renewal | \$ 63,549 | \$ 64,824 | \$ 66,257 | \$ 67,769 | \$ 69,228 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 50,010 | \$ 49,825 | \$ 49,717 | \$ 49,636 | \$ 49,508 |
| REP_03.02.05 | System Spare Transformer - TS | 3 - Reactive Asset | Renewal | \$ 404,575 | \$ 412,693 | \$ 421,816 | \$ 431,442 | \$ 440,730 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 318,380 | \$ 317,203 | \$ 316,517 | \$ 316,001 | \$ 315,182 |
| REP_03.02.06 | Earthing Equipment - TS | 3 - Reactive Asset | Renewal | \$ 227,785 | \$ 232,356 | \$ 237,493 | \$ 242,912 | \$ 248,142 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | Y | \$ 179,255 | \$ 178,593 | \$ 178,207 | \$ 177,916 | \$ 177,455 |
| REP_03.02.27 | Post VTS - TS | 1 - Planned | Renewal | \$ 1,251,647 | \$ 1,276,430 | \$ 1,304,449 | \$ 1,334,064 | \$ 1,362,534 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 971,499 | \$ 967,664 | \$ 965,426 | \$ 963,746 | \$ 961,074 |
| REP_03.02.32 | Pit Lids - TS | 3 - Reactive Asset | Renewal | \$ 124,202 | \$ 126,694 | \$ 129,495 | \$ 132,450 | \$ 135,301 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | Y | \$ 97,740 | \$ 97,379 | \$ 97,168 | \$ 97,010 | \$ 96,759 |
| REP_03.02.33 | 132/66kV Non Motorised I & E Switches - TS | 3 - Reactive Asset | Renewal | \$ 79,336 | \$ 80,928 | \$ 82,717 | \$ 84,605 | \$ 86,426 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 62,433 | \$ 62,203 | \$ 62,068 | \$ 61,967 | \$ 61,806 |
| REP_03.02.34 | SCADA Schemes - TS | 1 - Planned | Renewal | \$ 609,131 | \$ 621,070 | \$ 634,628 | \$ 648,980 | \$ 662,743 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 468,077 | \$ 466,137 | \$ 465,003 | \$ 464,153 | \$ 462,807 |
| REP_03.02.35 | Steel Structures - TS | 3 - Reactive Asset | Renewal | \$ 217,942 | \$ 222,315 | \$ 227,230 | \$ 232,415 | \$ 237,419 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 171,509 | \$ 170,875 | \$ 170,506 | \$ 170,228 | \$ 169,786 |
| REP_03.02.37 | Lighting Spires - TS | 3 - Reactive Asset | Renewal | \$ 64,136 | \$ 65,423 | \$ 66,869 | \$ 68,395 | \$ 69,868 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 50,472 | \$ 50,285 | \$ 50,176 | \$ 50,095 | \$ 49,965 |
| REP_03.02.39 | Protection Schemes - TS | 3 - Reactive Asset | Renewal | \$ 583,848 | \$ 595,563 | \$ 1,348,300 | \$ 1,378,379 | \$ 636,025 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 459,459 | \$ 457,761 | \$ 1,002,928 | \$ 1,000,683 | \$ 454,843 |
| REP_03.02.40 | REP Refurbish Air Core Reactors - TS | 1 - Planned | Renewal | \$ 841,818 | \$ 858,919 | \$ 877,024 | \$ 897,260 | \$ - | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 763,312 | \$ 760,139 | \$ 757,339 | \$ 756,065 | \$ - |
| REP_03.02.42 | Transformer Replacement (utilising existing holdings) - TS | 2 - Conditional | Renewal | \$ 881,936 | \$ 899,632 | \$ 919,521 | \$ 940,505 | \$ 960,752 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 694,039 | \$ 691,474 | \$ 689,978 | \$ 688,854 | \$ 687,067 |
| REP_03.02.60 | REP High Impedance Busbar Protection - TS | 1 - Planned | Renewal | \$ 523,867 | \$ 534,251 | \$ 545,985 | \$ 558,386 | \$ 570,311 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 407,079 | \$ 405,480 | \$ 404,548 | \$ 403,847 | \$ 402,734 |
| REP_03.02.61 | REP SCADA Equipment - TS | 1 - Planned | Renewal | \$ 392,900 | \$ 400,688 | \$ 409,489 | \$ 418,789 | \$ 427,733 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 305,309 | \$ 304,110 | \$ 303,411 | \$ 302,885 | \$ 302,050 |
| REP_03.03.01 | 132kV Circuit Breakers - TS | 1 - Planned | Renewal | \$ 19,990 | \$ 20,392 | \$ 20,842 | \$ 21,318 | \$ 21,777 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 15,731 | \$ 15,613 | \$ 15,639 | \$ 15,614 | \$ 15,573 |
| REP_03.03.02 | 132kV Motorised I & E Switches - TS | 1 - Planned | Renewal | \$ 1,238,599 | \$ 839,652 | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 971,676 | \$ 642,849 | \$ - | \$ - | \$ - |
| REP_03.03.05 | Protection Relays - TS | 1 - Planned | Renewal | \$ 565,851 | \$ 575,739 | \$ 587,585 | \$ 573,851 | \$ 585,147 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 385,631 | \$ 383,121 | \$ 381,657 | \$ 363,990 | \$ 362,321 |
| REP_03.03.06 | High Priority Relays - TS | 3 - Reactive Asset | Renewal | \$ 6,203 | \$ 6,328 | \$ 6,467 | \$ 6,615 | \$ 6,757 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 4,882 | \$ 4,864 | \$ 4,853 | \$ 4,845 | \$ 4,833 |
| REP_03.03.08 | Batteries and Battery Charging Equipment - TS | 1 - Planned | Renewal | \$ 272,306 | \$ 277,367 | \$ 282,993 | \$ 289,296 | \$ 295,878 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 221,970 | \$ 220,718 | \$ 219,741 | \$ 219,223 | \$ 218,942 |
| REP_03.03.09 | Post CTS - TS | 2 - Conditional | Renewal | \$ 343,590 | \$ 350,129 | \$ 357,396 | \$ 365,419 | \$ 373,667 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 279,678 | \$ 278,251 | \$ 277,174 | \$ 276,579 | \$ 276,167 |
| REP_03.03.10 | 132/66kV Bushings - TS | 1 - Planned | Renewal | \$ 435,333 | \$ 443,075 | \$ 451,979 | \$ 461,869 | \$ 471,794 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 329,004 | \$ 326,905 | \$ 325,405 | \$ 324,519 | \$ 323,716 |
| REP_03.04.03 | 33 kV Circuit Breakers - TS | 1 - Planned | Renewal | \$ 5,050,258 | \$ - | \$ - | \$ - | \$ - | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 4,429,580 | \$ - | \$ - | \$ - | \$ - |
| REP_03.04.04 | System Spares Equipment - TS | 3 - Reactive Asset | Renewal | \$ 38,772 | \$ 39,550 | \$ 40,424 | \$ 41,347 | \$ 42,237 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 30,512 | \$ 30,399 | \$ 30,333 | \$ 30,284 | \$ 30,205 |
| REP_03.04.05 | STS Building Refurbishment | 3 - Reactive Asset | Renewal | \$ 6 | \$ 6 | \$ 6 | \$ 7 | \$ 7 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | Y | \$ 5 | \$ 5 | \$ 5 | \$ 5 | \$ 5 |
| REP_03.04.06 | STS Roof Refurbishment | 1 - Planned | Renewal | \$ 696,711 | \$ 703,343 | \$ 710,665 | \$ 723,947 | \$ 743,503 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | Y | \$ 597,705 | \$ 588,143 | \$ 578,982 | \$ 575,233 | \$ 577,117 |
| REP_03.04.07 | Surge Arrestors - TS | 3 - Reactive Asset | Renewal | \$ 6,312 | \$ 6,438 | \$ 6,581 | \$ 6,731 | \$ 6,876 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 4,967 | \$ 4,948 | \$ 4,938 | \$ 4,930 | \$ 4,917 |
| REP_03.04.09 | Sub-Transmission Substation Reactive Replacement Projects | 3 - Reactive Asset | Renewal | \$ 361,919 | \$ 369,181 | \$ 377,343 | \$ 385,954 | \$ 394,263 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 284,812 | \$ 283,760 | \$ 283,146 | \$ 282,684 | \$ 281,951 |
| REP_03.04.10 | Earthing Equipment - TS | 3 - Reactive Asset | Renewal | \$ 608 | \$ 620 | \$ 634 | \$ 648 | \$ 662 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | Y | \$ 479 | \$ 477 | \$ 476 | \$ 475 | \$ 474 |
| REP_04.02.01 | Steel Mains (km) | 2 - Conditional | Renewal | \$ 6,586,235 | \$ 6,702,994 | \$ 6,842,256 | \$ 6,991,734 | \$ 7,130,974 | REP & DOC | Replacement | Standard Control | N/A | HV Distribution Mains | Various | - | \$ 4,549,481 | \$ 4,521,319 | \$ 4,505,199 | \$ 4,493,293 | \$ 4,474,014 |
| REP_04.02.02 | Pole Replacement Programme (No.) | 2 - Conditional | Renewal | \$ 37,117,796 | \$ 36,317,640 | \$ 36,497,547 | \$ 36,393,049 | \$ 38,565,977 | REP & DOC | Replacement | Standard Control | N/A | HV Distribution Mains | Various | - | \$ 27,372,573 | \$ 26,191,762 | \$ 25,722,916 | \$ 25,072,120 | \$ 25,932,388 |
| REP_04.02.04 | Low Voltage (LV) Overhead Services (No.) | 2 - Conditional | Renewal | \$ 14,828,655 | \$ 15,096,129 | \$ 15,411,793 | \$ 15,749,554 | \$ 16,065,841 | REP & DOC | Replacement | Standard Control | N/A | LV Distribution Mains | Various | - | \$ 10,445,917 | \$ 10,385,072 | \$ 10,349,577 | \$ 10,322,916 | \$ 10,280,531 |
| REP_04.02.05 | LV Consac Cables (km) | 1 - Planned | Renewal | \$ 18,339,963 | \$ 18,297,744 | \$ 18,761,255 | \$ 19,362,564 | \$ 20,094,539 | REP & DOC | Replacement | Standard Control | N/A | LV Distribution Mains | Various | - | \$ 16,416,815 | \$ 15,991,833 | \$ 16,010,656 | \$ 16,134,929 | \$ 16,353,378 |
| REP_04.02.06 | Low Voltage HDPE Cables (km) | 1 - Planned | Renewal | \$ 7,129,761 | \$ 7,290,985 | \$ 7,481,169 | \$ 7,686,368 | \$ 7,886,567 | REP & DOC | Replacement | Standard Control | N/A | LV Distribution Mains | Various | - | \$ 5,961,007 | \$ 5,954,554 | \$ 5,967,794 | \$ 5,988,822 | \$ 6,002,947 |
| REP_04.02.08 | Replace LV Spreaders in Bushfire Areas (No.) | 3 - Reactive Asset | Renewal | \$ 86,616 | \$ 88,354 | \$ 90,308 | \$ 92,368 | \$ 94,357 | REP & DOC | Replacement | Standard Control | N/A | LV Distribution Mains | Various | - | \$ 68,163 | \$ 67,911 | \$ 67,764 | \$ 67,653 | \$ 67,478 |
| REP_04.02.11 | REP 11kV UGOHs (No.) | 1 - Planned | Renewal | \$ 1,036,329 | \$ 1,056,253 | \$ 1,079,644 | \$ 1,104,690 | \$ 1,128,466 | REP & DOC | Replacement | Standard Control | N/A | HV Distribution Mains | Various | - | \$ 767,986 | \$ 764,571 | \$ 763,108 | \$ 762,355 | \$ 760,556 |
| REP_04.02.32 | 11kV Essantee ABS HS641 (No.) | 1 - Planned | Renewal | \$ 1,590,070 | \$ 1,621,098 | \$ 1,169,403 | \$ 804,555 | \$ 821,876 | REP & DOC | Replacement | Standard Control | N/A | HV Distribution Mains | Various | - | \$ 1,211,510 | \$ 1,206,407 | \$ 860,124 | \$ 589,280 | \$ 587,752 |
| REP_04.02.34 | Condemned Poles - Reinforcement (No.) | 2 - Conditional | Renewal | \$ 1,474,812 | \$ 1,297,904 | \$ 1,252,630 | \$ 1,138,572 | \$ 1,379,009 | REP & DOC | Replacement | Standard Control | N/A | HV Distribution Mains | Various | Y | \$ 1,419,264 | \$ 1,218,918 | \$ 1,148,052 | \$ 1,018,375 | \$ 1,203,753 |
| REP_04.02.35 | Steel Round Pillars (No.) | 3 - Reactive Asset | Renewal | \$ 380,149 | \$ 387,777 | \$ 396,349 | \$ 405,394 | \$ 414,122 | REP & DOC | Replacement | Standard Control | N/A | LV Distribution Mains | Various | - | \$ 299,158 | \$ 298,052 | \$ 297,407 | \$ 296,923 | \$ 296,153 |
| REP_04.02.36 | 11kV Taplin ABS D571 (No.) | 1 - Planned | Renewal | \$ 748,093 | \$ 762,688 | \$ 779,448 | \$ 797,257 | \$ 814,279 | REP & DOC | Replacement | Standard Control | N/A | HV Distribution Mains | Various | - | \$ 568,614 | \$ 566,223 | \$ 564,968 | \$ 564,117 | \$ 562,605 |
| REP_04.02.38 | LV UG Link Boxes (No.) | 3 - Reactive Asset | Renewal | \$ 216,361 | \$ 220,702 | \$ 225,581 | \$ 230,729 | \$ 235,697 | REP & DOC | Replacement | Standard Control | N/A | LV Distribution Mains | Various | - | \$ 170,265 | \$ 169,636 | \$ 169,269 | \$ 168,993 | \$ 168,555 |
| REP_04.02.42 | LV OH ABC Link Boxes (No.) | 3 - Reactive Asset | Renewal | \$ 3,627 | \$ 3,699 | \$ 3,781 | \$ 3,867 | \$ 3,951 | REP & DOC | Replacement | Standard Control | N/A | LV Distribution Mains | Various | - | \$ 2,854 | \$ 2,843 | \$ 2,837 | \$ 2,833 | \$ 2,825 |
| REP_04.02.43 | 11kV ABS Haycolec (No.) | 1 - Planned | Renewal | \$ 806,257 | \$ 822,184 | \$ 840,278 | \$ 859,437 | \$ 877,829 | REP & DOC | Replacement | Standard Control | N/A | HV Distribution Mains | Various | - | \$ 622,797 | \$ 620,318 | \$ 618,937 | \$ 617,942 | \$ 616,286 |
| REP_04.02.44 | 11kV ABS Non-Haycolec (No.) | 3 - Reactive Asset | Renewal | \$ 1,033,349 | \$ 1,054,083 | \$ 1,077,386 | \$ 1,101,973 | \$ 1,125,697 | REP & DOC | Replacement | Standard Control | N/A | HV Distribution Mains | Various | - | \$ 813,193 | \$ 810,188 | \$ 808,435 | \$ 807,118 | \$ 805,024 |
| REP_04.02.45 | 11kV Under Slung Link (No.) | 3 - Reactive Asset | Renew | | | | | | | | | | | | | | | | | |

| PIP ID | Project / Program Description | Investment Reason | Principle Driver | Total (\$nominal) 2019/20 | Total (\$nominal) 2020/21 | Total (\$nominal) 2021/22 | Total (\$nominal) 2022/23 | Total (\$nominal) 2023/24 | GROUPING | AER Category of Capex | Category of Distribution Service | RIT-D required | Material Asset | Location | Life Extension | Direct (\$real, FY19) 2019/20 | Direct (\$real, FY19) 2020/21 | Direct (\$real, FY19) 2021/22 | Direct (\$real, FY19) 2022/23 | Direct (\$real, FY19) 2023/24 |
|------------------|--|-----------------------|--------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------------------|-----------------------|----------------------------------|----------------|---------------------------|-----------------|----------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| REP_05.03.01 | REP TMOH Reactive Replacement | 3 - Reactive Asset | Renewal | \$ 1,515,094 | \$ 1,545,495 | \$ 1,579,661 | \$ 1,615,710 | \$ 1,650,494 | REP & DOC | Replacement | Standard Control | N/A | Sub-Transmission Mains | Various | - | \$ 1,192,301 | \$ 1,187,895 | \$ 1,185,325 | \$ 1,183,394 | \$ 1,180,325 |
| SUPP_44.01.01 | Strategic Property Acquisitions | 1 - Planned | Renewal | \$ 12,564,214 | \$ 25,379,828 | \$ - | \$ - | \$ 6,625,623 | REP & DOC | Replacement | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 12,410,049 | \$ 24,457,001 | \$ - | \$ - | \$ 5,928,849 |
| OTI_03.12 | Planning and Technology Data Usage | Other System | Other System | \$ 2,711,155 | \$ 2,791,007 | \$ 2,839,084 | \$ 2,949,847 | \$ 3,057,936 | OTHERS | Non-Network | Standard Control | No | Communications | Various | - | \$ 2,446,489 | \$ 2,460,587 | \$ 2,445,257 | \$ 2,482,060 | \$ 2,513,761 |
| OTI_03.15 | Advanced Distribution Management System (ADMS) | Other System | Other System | \$ 30,281,602 | \$ 4,734,590 | \$ 4,698,358 | \$ 4,672,911 | \$ 6,492,094 | OTHERS | Replacement | Standard Control | Yes | Communications | Various | - | \$ 25,210,747 | \$ 3,852,263 | \$ 3,734,658 | \$ 3,628,454 | \$ 4,925,266 |
| OTI_03.16 | Secondary Systems Security | Other System | Other System | \$ 616,560 | \$ 628,030 | \$ 643,219 | \$ 660,016 | \$ 675,768 | OTHERS | Non-Network | Standard Control | No | Communications | Various | - | \$ 449,189 | \$ 447,088 | \$ 447,194 | \$ 448,069 | \$ 448,081 |
| OTI_03.17 | REP Control System Servers and Network Equipment | Other System | Other System | \$ 711,510 | \$ 481,071 | \$ 492,706 | \$ - | \$ - | OTHERS | Non-Network | Standard Control | No | Communications | Various | - | \$ 518,364 | \$ 342,470 | \$ 342,551 | \$ - | \$ - |
| OTI_03.18 | Control System Core Refresh | Other System | Other System | \$ 616,560 | \$ 628,030 | \$ 643,219 | \$ 660,016 | \$ 675,768 | OTHERS | Replacement | Standard Control | No | Communications | Various | - | \$ 449,189 | \$ 447,088 | \$ 447,194 | \$ 448,069 | \$ 448,081 |
| OTI_03.19 | Network Innovation Program | Other System | Other System | \$ 10,064,038 | \$ 10,301,225 | \$ 10,593,393 | \$ 10,912,424 | \$ 11,221,971 | OTHERS | Non-Network | Standard Control | Yes | Communications | Various | - | \$ 8,486,588 | \$ 8,488,168 | \$ 8,526,071 | \$ 8,577,769 | \$ 8,616,848 |
| SUPP_44.01.013 | Switching and Control | Support | Overheads | \$ 15,589,217 | \$ 15,831,974 | \$ 16,139,885 | \$ 16,475,716 | \$ 16,777,351 | OTHERS | Support | Standard Control | N/A | Other | Various | - | \$ 9,417,698 | \$ 9,331,079 | \$ 9,280,548 | \$ 9,242,593 | \$ 9,182,254 |
| SUPP_44.01.03 | Planning, Forecasting and Compliance | Support | Overheads | \$ 25,756,690 | \$ 25,576,950 | \$ 25,817,009 | \$ 26,195,110 | \$ 26,541,720 | OTHERS | Network Overhead | Standard Control | N/A | Other | Various | - | \$ 15,866,315 | \$ 15,373,003 | \$ 15,140,208 | \$ 14,989,585 | \$ 14,821,428 |
| SUPP_44.01.04 | GIS Data capture | Support | Overheads | \$ 10,924,270 | \$ 11,101,330 | \$ 11,322,922 | \$ 11,569,067 | \$ 11,799,983 | OTHERS | Support | Standard Control | N/A | Other | Various | - | \$ 7,079,978 | \$ 7,021,553 | \$ 6,988,875 | \$ 6,969,963 | \$ 6,941,561 |
| CC_66.01.12 | Ausgrid Funded Capital (CIA95B) | 5 - Reactive Load | Network Connection | \$ 239,712 | \$ 244,061 | \$ 249,340 | \$ 255,046 | \$ 260,373 | DISTRIBUTION PLANS | Connections | Standard Control | N/A | Services | Various | - | \$ 166,499 | \$ 165,563 | \$ 165,166 | \$ 164,965 | \$ 164,477 |
| CC_66.01.13 | Customer Connection (>100A) | 4 - Reactive Customer | Network Connection | \$ 10,390,480 | \$ 10,466,095 | \$ 10,762,688 | \$ 11,099,205 | \$ 11,588,190 | DISTRIBUTION PLANS | Connections | Standard Control | N/A | Services | Various | - | \$ 7,370,107 | \$ 7,239,365 | \$ 7,273,804 | \$ 7,333,401 | \$ 7,478,599 |
| CC_66.01.14 | Customer Connection (<100A) | 4 - Reactive Customer | Network Connection | \$ 414,760 | \$ 411,054 | \$ 431,117 | \$ 441,129 | \$ 461,996 | DISTRIBUTION PLANS | Connections | Standard Control | N/A | Services | Various | - | \$ 288,818 | \$ 279,548 | \$ 286,279 | \$ 286,001 | \$ 292,510 |
| ARA_01.0007A | Conditional Projects | Major Projects | Network Connection | \$ 5,995,210 | \$ 19,884,415 | \$ 29,035,676 | \$ 11,352,967 | \$ 2,489,561 | AREA PLANS | Connections | Standard Control | N/A | Zone Substation Equipment | Various | - | \$ 4,324,897 | \$ 16,323,642 | \$ 23,859,409 | \$ 8,896,609 | \$ 1,975,220 |
| ARA_02.1.0071 | Barangaroo South Connections | Major Projects | Network Connection | \$ 238,427 | \$ - | \$ - | \$ - | \$ - | AREA PLANS | Connections | Standard Control | No | Sub-Transmission Mains | MILLERS POINT | - | \$ 197,546 | \$ - | \$ - | \$ - | \$ - |
| ARA_03.1A.0032M | NEW 33KV SUPPLY TO WESTCONNEX STG 3A | Major Projects | Network Connection | \$ 51,791 | \$ 666,539 | \$ - | \$ - | \$ - | AREA PLANS | Connections | Standard Control | No | Sub-Transmission Mains | ALEXANDRIA | - | \$ 31,133 | \$ 509,909 | \$ - | \$ - | \$ - |
| ARA_03.1A.0071 | NEW 33KV SUPPLY TO WESTCONNEX STG 2 | Major Projects | Network Connection | \$ 176,851 | \$ - | \$ - | \$ - | \$ - | AREA PLANS | Connections | Standard Control | No | Sub-Transmission Mains | ALEXANDRIA | - | \$ 172,031 | \$ - | \$ - | \$ - | \$ - |
| ARA_04.4.A.0023M | NEW 33KV SUPPLY TO WESTCONNEX STG 3B | Major Projects | Network Connection | \$ - | \$ 87,741 | \$ 645,738 | \$ - | \$ - | AREA PLANS | Connections | Standard Control | No | Sub-Transmission Mains | ALEXANDRIA | - | \$ - | \$ 51,456 | \$ 488,389 | \$ - | \$ - |
| ARA_04.5.0004 | NEW 33/11KV TX4 CAMPERDOWN ZN | Major Projects | Renewal | \$ 3,521,226 | \$ 323,226 | \$ - | \$ - | \$ - | AREA PLANS | Replacement | Standard Control | No | Zone Substation Equipment | CAMPERDOWN | - | \$ 2,909,668 | \$ 283,623 | \$ - | \$ - | \$ - |
| ARA_04.5.0016M | NEW 33KV CABLE EGRESS PYRMONT STS | Major Projects | Network Connection | \$ 235,825 | \$ - | \$ - | \$ - | \$ - | AREA PLANS | Connections | Standard Control | No | Sub-Transmission Mains | PYRMONT | - | \$ 232,853 | \$ - | \$ - | \$ - | \$ - |
| ARA_04.5.0072 | NEW 33KV SUPPLY TO GLOBAL SWITCH | Major Projects | Network Connection | \$ 117,121 | \$ - | \$ - | \$ - | \$ - | AREA PLANS | Connections | Standard Control | No | Sub-Transmission Mains | ULTIMO | - | \$ 86,648 | \$ - | \$ - | \$ - | \$ - |
| HV_102.08 | 11kV Network Reinforcement Program | 5 - Reactive Load | Capacity | \$ 9,389,789 | \$ 18,214,742 | \$ 19,430,313 | \$ 16,138,273 | \$ 17,823,808 | DISTRIBUTION PLANS | Augmentation | Standard Control | N/A | HV Distribution Mains | Various | - | \$ 7,774,886 | \$ 14,733,154 | \$ 15,350,404 | \$ 12,452,340 | \$ 13,435,190 |
| LV_22.01.12 | Load Survey | 5 - Reactive Load | Capacity | \$ 1,311,445 | \$ 1,331,867 | \$ 1,357,771 | \$ 1,386,022 | \$ 1,411,397 | DISTRIBUTION PLANS | Augmentation | Standard Control | N/A | Distribution Substations | Various | - | \$ 792,265 | \$ 784,979 | \$ 780,728 | \$ 777,535 | \$ 772,459 |
| LV_22.01.14 | LV Distributor Capacity program | 5 - Reactive Load | Capacity | \$ 4,795,601 | \$ 4,910,644 | \$ 5,044,825 | \$ 5,167,878 | \$ 5,355,833 | DISTRIBUTION PLANS | Augmentation | Standard Control | N/A | LV Distribution Mains | Various | - | \$ 3,350,809 | \$ 3,351,084 | \$ 3,361,854 | \$ 3,362,655 | \$ 3,403,465 |
| LV_22.01.15 | Distribution Centre Capacity Program | 5 - Reactive Load | Capacity | \$ 1,876,238 | \$ 1,893,122 | \$ 1,944,032 | \$ 2,001,210 | \$ 2,067,196 | DISTRIBUTION PLANS | Augmentation | Standard Control | N/A | Distribution Substations | Various | - | \$ 1,302,162 | \$ 1,283,203 | \$ 1,286,461 | \$ 1,292,732 | \$ 1,303,832 |
| REL_33.01.01 | Individual Feeder Reliability Program (Schedule 3) | 5 - Reactive Load | Reliability | \$ 1,346,756 | \$ 1,372,621 | \$ 1,403,404 | \$ 1,436,527 | \$ 1,467,891 | DISTRIBUTION PLANS | Augmentation | Standard Control | N/A | HV Distribution Mains | Various | - | \$ 988,311 | \$ 983,936 | \$ 982,450 | \$ 982,029 | \$ 980,149 |
| REL_33.01.05 | Individual Feeder Segment Reliability Program | 5 - Reactive Load | Reliability | \$ 196,082 | \$ 199,966 | \$ 204,568 | \$ 209,519 | \$ 214,237 | DISTRIBUTION PLANS | Augmentation | Standard Control | N/A | HV Distribution Mains | Various | - | \$ 147,687 | \$ 147,129 | \$ 147,003 | \$ 147,038 | \$ 146,868 |
| REL_33.01.06 | High Community Impact Assets Reliability Program | 5 - Reactive Load | Reliability | \$ 2,157,596 | \$ 2,204,540 | \$ 2,257,873 | \$ 2,314,554 | \$ 2,369,934 | DISTRIBUTION PLANS | Augmentation | Standard Control | N/A | HV Distribution Mains | Various | - | \$ 1,794,826 | \$ 1,791,178 | \$ 1,791,310 | \$ 1,792,881 | \$ 1,792,815 |
| ARA_01.1.0034A | NEW REACTIVE SUPPORT | Major Projects | Capacity | \$ - | \$ 131,729 | \$ 1,101,576 | \$ 4,126,913 | \$ 8,119,002 | AREA PLANS | Augmentation | Standard Control | Yes | Zone Substation Equipment | Various | - | \$ - | \$ 76,936 | \$ 634,042 | \$ 2,984,646 | \$ 6,547,118 |
| ARA_03.1A.0031 | NEW 132/33KV TX3 ALEXANDRIA STS | Major Projects | Capacity | \$ 2,405,643 | \$ 655,446 | \$ - | \$ - | \$ - | AREA PLANS | Augmentation | Standard Control | No | Zone Substation Equipment | ALEXANDRIA | - | \$ 2,109,315 | \$ 581,649 | \$ - | \$ - | \$ - |
| ARA_04.1.0039A | NEW 132KV FDR 907 REACTOR BYPASS CBURY | Major Projects | Capacity | \$ - | \$ - | \$ - | \$ 156,352 | \$ 739,080 | AREA PLANS | Augmentation | Standard Control | No | Zone Substation Equipment | CANTERBURY | - | \$ - | \$ - | \$ - | \$ 87,092 | \$ 438,914 |
| ARA_04.4.A.0005 | UPG 132/33KV ROZELLE STS | Major Projects | Capacity | \$ 3,856,245 | \$ 13,987,344 | \$ 4,651,173 | \$ - | \$ - | AREA PLANS | Augmentation | Standard Control | Yes | Zone Substation Equipment | ROZELLE | - | \$ 3,071,711 | \$ 10,869,945 | \$ 3,526,395 | \$ - | \$ - |
| ARA_04.5.0011A | LT 11KV DHARBOUR-CAMPERDOWN | Major Projects | Capacity | \$ - | \$ - | \$ 262,309 | \$ 1,457,606 | \$ 1,324,568 | AREA PLANS | Augmentation | Standard Control | Yes | HV Distribution Mains | DARLING HARBOUR | - | \$ - | \$ - | \$ 149,713 | \$ 817,612 | \$ 1,078,504 |
| ARA_05.2.0027 | LT 11KV LINDFIELD-CASTLE COVE ZN | Major Projects | Capacity | \$ - | \$ - | \$ - | \$ - | \$ 152,957 | AREA PLANS | Augmentation | Standard Control | No | HV Distribution Mains | CASTLE COVE | - | \$ - | \$ - | \$ - | \$ - | \$ 83,086 |