



31 January 2023

Attachment 5.3.c: Master list of network SCS capital projects

Ausgrid's 2024-29 Regulatory Proposal

Empowering communities for a resilient, affordable and net-zero future.



PIP ID	Project / Program Description	Investment Reason	Principle Driver	Total (\$Nominal) 2024/25	Total (\$Nominal) 2025/26	Total (\$Nominal) 2026/27	Total (\$Nominal) 2027/28	Total (\$Nominal) 2028/29	GROUPING	AER Category of Capex	Category of Distribution Service	RIT-D required	Material Asset	Location	Life Extension	Direct	Direct	Direct	Direct	Direct
																(\$real, FY24) 2024/25	(\$real, FY24) 2025/26	(\$real, FY24) 2026/27	(\$real, FY24) 2027/28	(\$real, FY24) 2028/29
ARA_01.0007A	CONDITIONAL PROJECTS	Major Projects	Various	\$ 1,274,645	\$ 2,742,535	\$ 5,675,968	\$ 5,259,293	\$ 1,003,702	AREA PLANS	Various	Standard Control	n	Various	Various	-	\$ 999,335	\$ 2,171,495	\$ 4,431,610	\$ 3,940,283	\$ 730,330
ARA_01.1.0026	DECOM 132KV FDR 928/3 & 929/1 LCOVE-DAL	Major Projects	Renewal	\$ 1,263,094	\$ -	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	n	Sub-Transmission Mains	LANE COVE	-	\$ 1,119,442	\$ -	\$ -	\$ -	\$ -
ARA_01.1.0028A	REP 132KV FDR 95A & 92P	Major Projects	Renewal	\$ 4,204,429	\$ 1,320,575	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	Y	Sub-Transmission Mains	ALEXANDRIA	-	\$ 3,999,378	\$ 1,221,062	\$ -	\$ -	\$ -
ARA_01.1.0029A	DECOM 132KV FDR 91X & 91Y	Major Projects	Renewal	\$ -	\$ -	\$ 344,516	\$ 2,314,055	\$ 922,517	REP & DOC	Augmentation	Standard Control	n	Zone Substation Equipment	BEACONSFIELD	-	\$ -	\$ -	\$ 292,552	\$ 1,910,021	\$ 740,195
ARA_01.1.0030A	REP 132KV FDR 91A/1 & 91B/1 BFLD-ST PET	Major Projects	Renewal	\$ -	\$ -	\$ 652,310	\$ 6,739,536	\$ 11,642,014	REP & DOC	Replacement	Standard Control	Y	Sub-Transmission Mains	BEACONSFIELD	-	\$ -	\$ -	\$ 586,340	\$ 5,888,561	\$ 9,887,841
ARA_01.1.0034A	DECOM 132KV FDR 92X & 92C	Major Projects	Renewal	\$ -	\$ -	\$ 376,227	\$ 2,527,086	\$ 1,007,430	REP & DOC	Replacement	Standard Control	n	Sub-Transmission Equipment	ST PETERS	-	\$ -	\$ -	\$ 316,622	\$ 2,067,190	\$ 801,095
ARA_01.1.0039A	DECOM CAP BANKS VARIOUS SITES	Major Projects	Renewal	\$ -	\$ 468,158	\$ 2,423,042	\$ 2,000,906	\$ -	REP & DOC	Replacement	Standard Control	n	Sub-Transmission Mains	Various	-	\$ -	\$ 408,473	\$ 2,054,977	\$ 1,649,316	\$ -
ARA_01.1.0041A	VOLTAGE OPTIMISATION TRANSMISSION NETWORK	Major Projects	Compliance	\$ -	\$ 231,946	\$ 1,680,464	\$ 1,486,841	\$ 1,538,094	REP & DOC	Replacement	Standard Control	n	Sub-Transmission Mains	Various	-	\$ -	\$ 198,798	\$ 1,399,981	\$ 1,203,859	\$ 1,210,368
ARA_01.1.0044	NEW SERIES REACTORS INNER METRO	Major Projects	Renewal	\$ -	\$ -	\$ 973,232	\$ 6,525,954	\$ 2,594,251	REP & DOC	Replacement	Standard Control	Y	Zone Substation Equipment	Various	-	\$ -	\$ -	\$ 852,882	\$ 5,558,528	\$ 2,147,675
ARA_01.1.0128	REP 132KV FDR 202 ROZELLE-DMOYNE	Major Projects	Renewal	\$ -	\$ 203,332	\$ 1,474,595	\$ 6,524,776	\$ 10,130,855	REP & DOC	Replacement	Standard Control	Y	Sub-Transmission Mains	ROZELLE	-	\$ -	\$ 185,659	\$ 1,308,822	\$ 5,629,142	\$ 8,495,711
ARA_01.1.0129	REP 132KV FDR 203 & 204 MPARK-DMOYNE	Major Projects	Renewal	\$ -	\$ 549,652	\$ 3,992,283	\$ 17,677,239	\$ 27,481,654	REP & DOC	Replacement	Standard Control	Y	Sub-Transmission Mains	DRUMMOYNE	-	\$ -	\$ 507,781	\$ 3,585,255	\$ 15,431,075	\$ 23,319,473
ARA_02.1.0017	DECOM 132KV FDR 929/2, 92L/1, 928/1 & 92M/2	Major Projects	Renewal	\$ 752,198	\$ -	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	n	Zone Substation Equipment	LANE COVE	-	\$ 666,478	\$ -	\$ -	\$ -	\$ -
ARA_02.1.0134A	DECOM 132KV DALLEY ST ZN	Major Projects	Renewal	\$ 732,715	\$ -	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	Y	Zone Substation Equipment	SYDNEY	-	\$ 686,590	\$ -	\$ -	\$ -	\$ -
ARA_03.1A.0029A	DECOM 132/11KV DARLINGHURST ZN STG 2	Major Projects	Renewal	\$ 502,432	\$ 2,958,886	\$ 7,210,547	\$ 5,583,956	\$ 1,926,526	REP & DOC	Replacement	Standard Control	Y	Sub-Transmission Mains	DARLINGHURST	-	\$ 444,938	\$ 2,546,516	\$ 6,032,279	\$ 4,540,350	\$ 1,522,552
ARA_03.1A.0034	CONNECT 132KV RMCB TO TX1 MARRICKVILLE ZN	Major Projects	Renewal	\$ -	\$ -	\$ 110,391	\$ 741,121	\$ 295,246	REP & DOC	Replacement	Standard Control	n	Sub-Transmission Equipment	MARRICKVILLE	-	\$ -	\$ -	\$ 96,776	\$ 631,525	\$ 244,552
ARA_03.1B.0010	DECOM 4x33KV REACTORS BUNNERONG STS	Major Projects	Renewal	\$ 105,118	\$ -	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	n	Zone Substation Equipment	MARRICKVILLE	-	\$ 84,637	\$ -	\$ -	\$ -	\$ -
ARA_03.1B.0017	REP 11KV SWG COMPOUND MASCOT ZN	Major Projects	Renewal	\$ 4,978,827	\$ 2,586,169	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	Y	Sub-Transmission Mains	MASCOT	-	\$ 3,732,004	\$ 1,882,898	\$ -	\$ -	\$ -
ARA_03.1B.0032A	REP 11KV SWG (GRP 1) BOTANY ZN	Major Projects	Renewal	\$ 1,766,785	\$ 4,129,606	\$ 2,468,399	\$ 490,209	\$ -	REP & DOC	Replacement	Standard Control	Y	Sub-Transmission Mains	BOTANY	-	\$ 1,315,422	\$ 2,986,273	\$ 1,734,576	\$ 334,727	\$ -
ARA_03.1B.0034A	REP 11KV SWG (GRP 1) BOTANY ZN	Major Projects	Various	\$ 149,748	\$ -	\$ -	\$ -	\$ -	AREA PLANS	Various	Standard Control	Y	Various	MASCOT	-	\$ 122,322	\$ -	\$ -	\$ -	\$ -
ARA_03.1C.0030	DECOM 132KV FDRS 260/1 & 261/1	Major Projects	Renewal	\$ 134,851	\$ 561,903	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	Y	Zone Substation Equipment	BEACONSFIELD	-	\$ 120,073	\$ 486,350	\$ -	\$ -	\$ -
ARA_03.1C.0038A	REP 132KV FDR 264 BFLD-KINGSFORD	Major Projects	Renewal	\$ 3,474,665	\$ 1,326,050	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	Y	Zone Substation Equipment	KINGSFORD	-	\$ 3,265,004	\$ 1,211,125	\$ -	\$ -	\$ -
ARA_04.1.0007	REA 33KV FDRS BLAKEHURST ZN	Major Projects	Renewal	\$ 5,913,494	\$ 6,004,857	\$ 2,396,226	\$ -	\$ -	REP & DOC	Replacement	Standard Control	Y	Zone Substation Equipment	CARLTON	-	\$ 5,506,045	\$ 5,434,842	\$ 2,108,328	\$ -	\$ -
ARA_04.3A.0035A	REP 11KV SWG LEIGHTONFIELD ZN	Major Projects	Renewal	\$ -	\$ -	\$ 381,009	\$ 1,573,859	\$ 4,579,581	REP & DOC	Replacement	Standard Control	Y	Zone Substation Equipment	WILLAWOOD	-	\$ -	\$ -	\$ 267,977	\$ 1,075,622	\$ 3,041,070
ARA_04.3B.0008	REP 11KV SWG MILPERRA ZN	Major Projects	Renewal	\$ 3,734,598	\$ 1,205,663	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	Y	Zone Substation Equipment	REVESSBY	-	\$ 2,842,006	\$ 891,123	\$ -	\$ -	\$ -
ARA_04.4.A.0010	REP 132KV SWG DRUMMOYNE ZN	Major Projects	Renewal	\$ -	\$ 367,198	\$ 2,469,421	\$ 4,901,773	\$ 8,111,422	REP & DOC	Replacement	Standard Control	Y	Zone Substation Equipment	DRUMMOYNE	-	\$ -	\$ 304,610	\$ 1,991,014	\$ 3,840,802	\$ 6,176,641
ARA_04.4.A.0025M	REP 11KV SWG CONCORD ZN	Major Projects	Network Connection	\$ 739,931	\$ 85,300	\$ -	\$ -	\$ -	AREA PLANS	Connections	Standard Control	n	Sub-Transmission Mains	ROZELLE	-	\$ 580,267	\$ 64,963	\$ -	\$ -	\$ -
ARA_04.4.B.0002	REP 11KV SWG CONCORD ZN	Major Projects	Renewal	\$ 1,611,077	\$ -	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	Y	Zone Substation Equipment	HOMEBUSH WEST	-	\$ 1,220,531	\$ -	\$ -	\$ -	\$ -
ARA_04.4.B.0022A	REP 132KV FDR 923/2 & 924/2 MPARK-BURWOOD	Major Projects	Renewal	\$ 932,869	\$ -	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	Y	Zone Substation Equipment	HOMEBUSH WEST	-	\$ 885,350	\$ -	\$ -	\$ -	\$ -
ARA_04.4.C.0034A	REP 11KV SWG (GRP 1) & FDR 61H LIDCOMBE ZN	Major Projects	Renewal	\$ 457,681	\$ 3,171,310	\$ 7,386,356	\$ 4,407,602	\$ 1,052,698	AREA PLANS	Connections	Standard Control	Y	Zone Substation Equipment	AUBURN	-	\$ 359,689	\$ 2,421,446	\$ 5,481,711	\$ 3,178,820	\$ 737,823
ARA_05.1.0035A	REFURB 33KV SWG WILLOUGHBY STS	Major Projects	Renewal	\$ 6,964,013	\$ 7,940,023	\$ 7,954,206	\$ 384,721	\$ -	REP & DOC	Replacement	Standard Control	Y	Zone Substation Equipment	WILLOUGHBY	Y	\$ 5,412,252	\$ 5,990,976	\$ 5,830,421	\$ 273,979	\$ -
ARA_05.1.0039M	REP 11KV SWG PYMBLE ZN	Major Projects	Network Connection	\$ 3,887,007	\$ -	\$ -	\$ -	\$ -	AREA PLANS	Connections	Standard Control	n	Sub-Transmission Mains	WILLOUGHBY	-	\$ 2,829,984	\$ -	\$ -	\$ -	\$ -
ARA_05.2.0004	REP 11KV SWG PYMBLE ZN	Major Projects	Renewal	\$ 3,506,375	\$ 7,450,611	\$ 3,425,759	\$ 884,436	\$ 366,009	REP & DOC	Replacement	Standard Control	Y	Zone Substation Equipment	PYMBLE	-	\$ 2,611,321	\$ 5,389,323	\$ 2,408,001	\$ 604,085	\$ 242,901
ARA_05.2.0019	REP 132KV FDR 9E1 & 9E2 OIL SEC SYD EAST-KURINGAI	Major Projects	Renewal	\$ 5,155,929	\$ 1,610,659	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	Y	Sub-Transmission Mains	PYMBLE	-	\$ 4,833,549	\$ 1,467,739	\$ -	\$ -	\$ -
ARA_05.3.0045U	NEW 132/33KV TX3 MACQUARIE STS	Major Projects	Capacity	\$ 4,818,370	\$ 1,253,952	\$ -	\$ -	\$ -	AREA PLANS	Augmentation	Standard Control	Y	Zone Substation Equipment	MACQUARIE PARK	-	\$ 4,257,708	\$ 1,077,016	\$ -	\$ -	\$ -
ARA_05.3.0047M	NEW STATCOM WARATAH STS	Major Projects	Network Connection	\$ 117,998	\$ 693,600	\$ -	\$ -	\$ -	AREA PLANS	Connections	Standard Control	n	Sub-Transmission Mains	MACQUARIE PARK	-	\$ 91,310	\$ 521,181	\$ -	\$ -	\$ -
ARA_07.2.0015	NEW STATCOM WARATAH STS	Major Projects	Compliance	\$ 741,210	\$ 2,997,355	\$ 3,104,374	\$ 1,832,269	\$ -	REP & DOC	Replacement	Standard Control	Y	Zone Substation Equipment	WARATAH WEST	-	\$ 606,829	\$ 2,384,621	\$ 2,400,799	\$ 1,377,147	\$ -
ARA_07.4.0002	REA 33KV NETWORK AWABA STS	Major Projects	Renewal	\$ 253,829	\$ -	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	n	Zone Substation Equipment	AWABA	-	\$ 212,238	\$ -	\$ -	\$ -	\$ -
ARA_07.6.0014	REP 11KV SWG TARRO ZN	Major Projects	Renewal	\$ 1,691,878	\$ -	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	Y	Zone Substation Equipment	TARRO	-	\$ 1,254,991	\$ -	\$ -	\$ -	\$ -
ARA_08.1.0004	NEW 66KV CAP BANKS SINGLETON STS	Major Projects	Compliance	\$ 1,922,379	\$ 232,655	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	n	Zone Substation Equipment	SINGLETON	-	\$ 1,533,814	\$ 180,281	\$ -	\$ -	\$ -
CC 66.01.13	Customer Connections (> 100A)	4 - Reactive Customer	Network Connection	\$ 504,753	\$ 498,995	\$ 521,095	\$ 552,196	\$ 584,668	CAPACITY PLAN	Connections	Standard Control	N/A	Services	Various	-	\$ 365,121	\$ 350,670	\$ 355,914	\$ 366,514	\$ 377,116
CC 66.01.14	Customer Connections (< 100A)	4 - Reactive Customer	Network Connection	\$ 357,696	\$ 354,062	\$ 369,871	\$ 392,110	\$ 415,452	CAPACITY PLAN	Connections	Standard Control	N/A	Services	Various	-	\$ 233,321	\$ 224,450	\$ 227,919	\$ 234,838	\$ 241,844
CC 66.01.12	Ausgrid Funded Capex (CIAP95B)	4 - Reactive Customer	Network Connection	\$ 5,239,875	\$ 5,185,530	\$ 5,414,656	\$ 5,737,463	\$ 6,079,047	CAPACITY PLAN	Connections	Standard Control	N/A	Services	Various	-	\$ 3,517,554	\$ 3,382,696	\$ 3,433,164	\$ 3,535,387	\$ 3,640,694
DOC 11.03.01	Distribution Chamber Substation Program	1 - Planned	Compliance	\$ 980,287	\$ 1,021,226	\$ 1,059,759	\$ 1,095,054	\$ 1,135,117	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	Y	\$ 915,170	\$ 926,753	\$ 934,925	\$ 939,014	\$ 946,215
DOC 11.03.10	Brick Wall OE Substations	1 - Planned	Compliance	\$ 603,570	\$ 1,907	\$ 1,968	\$ 2,030	\$ 2,096	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	Y	\$ 515,641	\$ 1,448	\$ 1,451	\$ 1,454	\$ 1,458
DOC 11.03.11-1	Water Crossings - DM	3 - Reactive Asset	Compliance	\$ 31,439	\$ 32,546	\$ 33,594	\$ 34,648	\$ 35,773	REP & DOC	Replacement	Standard Control	N/A	HV Distribution Mains	Various	-	\$ 24,593	\$ 24,711	\$ 24,774	\$ 24,822	\$ 24,890
DOC 11.03.24	Fire Mitigation - ZN	3 - Reactive Asset	Compliance	\$ 458,077	\$ 474,206	\$ 489,479	\$ 504,837	\$ 521,221	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	Y	\$ 358,327	\$ 360,039	\$ 360,961	\$ 361,664	\$ 362,658
DOC 11.03.25	Smoke Detection Installation - ZN	1 - Planned	Compliance	\$ 1,820,158	\$ 1,894,037	\$ 1,962,123	\$ 2,027,323	\$ 2,099,643	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	Y	\$ 1,406,894	\$ 1,422,740	\$ 1,438,829	\$ 1,438,822	\$ 1,448,382
DOC 11.03.26	Fire Hydrants - ZN	2 - Conditional	Compliance	\$ 926,332	\$ 964,933	\$ 1,000,432	\$ 1,034,013	\$ 1,071,582	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	Y	\$ 728,981	\$ 738,154	\$ 744,128	\$ 747,553	\$ 753,118
DOC 11.03.28	Fire Mitigation - DC	3 - Reactive Asset	Compliance	\$ 170,569	\$ 176,574	\$ 182,262	\$ 187,980	\$ 194,081	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	Y	\$ 133,426	\$ 134,064	\$ 134,677	\$ 134,669	\$ 135,039
DOC 11.03.34	Low Mains - DM	2 - Conditional	Compliance	\$ 977,386	\$ 1,016,841	\$ 1,052,642	\$ 1,087,746	\$ 1,126,261	REP & DOC	Replacement	Standard Control	N/A	HV Distribution Mains	Various	-	\$ 660,375	\$ 667,494	\$ 671,581	\$ 674,420	\$

REP_01.02.47	Reyrolle JKSS RMIs C, EB	1 - Planned	Renewal	\$ 626,966	\$ 650,272	\$ 672,280	\$ 693,771	\$ 106,945	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 516,232	\$ 520,060	\$ 522,477	\$ 523,932	\$ 74,411
REP_01.02.48	Obsolete Chamber Substations	3 - Reactive Asset	Renewal	\$ 1,344,317	\$ 1,391,649	\$ 1,436,471	\$ 1,481,543	\$ 1,529,624	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 1,051,579	\$ 1,056,604	\$ 1,059,312	\$ 1,061,375	\$ 1,064,291
REP_01.02.52	Obsolete RMIs & Fss	1 - Planned	Renewal	\$ 5,807,177	\$ 6,024,470	\$ 6,229,647	\$ 6,429,236	\$ 6,646,892	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 4,818,923	\$ 4,856,194	\$ 4,880,017	\$ 4,894,082	\$ 4,916,589
REP_01.02.57	ABB 11kV Series V EDO Fuse Carriers	1 - Planned	Renewal	\$ 366,522	\$ 651	\$ 672	\$ 693	\$ 716	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 249,547	\$ 495	\$ 496	\$ 497	\$ 498
REP_01.02.59	SCADA Equipment - DC	1 - Planned	Renewal	\$ 1,000,062	\$ 1,036,555	\$ 1,070,827	\$ 1,104,915	\$ 1,141,618	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 773,699	\$ 778,541	\$ 781,316	\$ 783,249	\$ 786,099
REP_01.02.61	Intertripping Schemes - DC	1 - Planned	Renewal	\$ 1,396,436	\$ 1,446,327	\$ 1,493,708	\$ 1,540,750	\$ 1,591,302	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 1,135,188	\$ 1,141,625	\$ 1,145,460	\$ 1,147,982	\$ 1,151,804
REP_01.03.01	Low Voltage OCB Subs	3 - Reactive Asset	Renewal	\$ 33,316	\$ 34,489	\$ 35,662	\$ 36,835	\$ 37,998	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 26,061	\$ 26,186	\$ 26,311	\$ 26,436	\$ 26,561
REP_01.03.02	Low Voltage ACB Subs	2 - Conditional	Renewal	\$ 128,142	\$ 132,709	\$ 137,276	\$ 141,843	\$ 146,410	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 98,625	\$ 99,135	\$ 99,645	\$ 100,155	\$ 100,665
REP_01.03.04	Single Circuit Breaker Switchgear	1 - Planned	Renewal	\$ 347,671	\$ 722,436	\$ 747,447	\$ 771,919	\$ -	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 258,022	\$ 520,764	\$ 523,587	\$ 525,432	\$ -
REP_01.03.06	Network Protectors (West CM2/22)	1 - Planned	Renewal	\$ 6,629,520	\$ 6,878,988	\$ 7,110,514	\$ 7,340,139	\$ 7,588,645	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 4,895,077	\$ 4,931,399	\$ 4,952,004	\$ 4,966,575	\$ 4,987,898
REP_01.03.07	400kVA Sydney CBD Conservator Type Tx	1 - Planned	Renewal	\$ 2,378,458	\$ 2,468,394	\$ 2,552,033	\$ 2,634,523	\$ 2,724,066	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 1,794,896	\$ 1,808,820	\$ 1,816,989	\$ 1,822,485	\$ 1,830,723
REP_01.03.10	Kiosk Housings	3 - Reactive Asset	Renewal	\$ 613,455	\$ 635,054	\$ 655,508	\$ 676,076	\$ 698,017	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 479,869	\$ 482,162	\$ 483,398	\$ 484,339	\$ 485,670
REP_01.03.11	G' Type LV Board Timber Housings	3 - Reactive Asset	Renewal	\$ 72,299	\$ 74,844	\$ 77,265	\$ 79,679	\$ 82,083	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 56,555	\$ 56,825	\$ 56,971	\$ 57,082	\$ 57,239
REP_01.03.13	Bass & Saunders Isolation & Earthing Switchgear	1 - Planned	Renewal	\$ 1,565,290	\$ 1,627,701	\$ 1,684,359	\$ 1,740,277	\$ 1,801,364	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 1,044,038	\$ 1,054,538	\$ 1,060,390	\$ 1,064,637	\$ 1,070,777
REP_01.03.16	Muswellbrook Kiosks	1 - Planned	Renewal	\$ 190,343	\$ 197,310	\$ 203,908	\$ 210,387	\$ 217,404	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 156,514	\$ 157,571	\$ 158,229	\$ 158,634	\$ 159,269
REP_01.03.17	Hazemeyer RMIs - Harsh Environment	1 - Planned	Renewal	\$ 438,948	\$ 455,122	\$ 470,388	\$ 485,384	\$ 501,637	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 356,183	\$ 358,662	\$ 360,193	\$ 361,147	\$ 362,631
REP_01.04.01	Long & Crawford T3GF3 Ring Main Isolators	3 - Reactive Asset	Renewal	\$ 167,232	\$ 173,120	\$ 178,696	\$ 184,303	\$ 190,284	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 130,815	\$ 131,441	\$ 131,777	\$ 132,034	\$ 132,397
REP_01.04.02	Refurbishment of Pole Transformer Substations	3 - Reactive Asset	Renewal	\$ 6,208	\$ 6,427	\$ 6,634	\$ 6,842	\$ 7,049	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	Y	\$ 4,856	\$ 4,879	\$ 4,892	\$ 4,901	\$ 4,915
REP_01.04.03	Distribution Centre Reactive Replacement (< 550k)	3 - Reactive Asset	Renewal	\$ 5,249,961	\$ 5,434,807	\$ 5,609,851	\$ 5,785,870	\$ 5,973,641	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 4,106,733	\$ 4,126,357	\$ 4,136,930	\$ 4,144,988	\$ 4,156,378
REP_01.04.05	Distribution Substation Buildings & Grounds	3 - Reactive Asset	Renewal	\$ 158,327	\$ 163,901	\$ 169,180	\$ 174,489	\$ 180,151	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	Y	\$ 123,850	\$ 124,441	\$ 124,616	\$ 125,003	\$ 125,347
REP_01.04.07	SF6 Switchgear - Low Gas	3 - Reactive Asset	Renewal	\$ 123,655	\$ 128,008	\$ 132,131	\$ 136,277	\$ 140,700	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 96,728	\$ 97,190	\$ 97,439	\$ 97,629	\$ 97,877
REP_01.04.11	Single Pole PT Substations	2 - Conditional	Renewal	\$ 8,600,757	\$ 8,924,505	\$ 9,224,370	\$ 9,522,497	\$ 9,844,815	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 6,257,514	\$ 6,303,573	\$ 6,329,215	\$ 6,347,853	\$ 6,374,779
REP_01.04.12	Distribution Substation Heritage Buildings	3 - Reactive Asset	Renewal	\$ 93,204	\$ 96,485	\$ 99,593	\$ 102,718	\$ 106,052	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	Y	\$ 72,908	\$ 73,256	\$ 73,444	\$ 73,587	\$ 73,789
REP_01.04.13	System Spares Equipment - DC Subs	3 - Reactive Asset	Renewal	\$ 233,497	\$ 241,718	\$ 249,504	\$ 257,332	\$ 265,683	REP & DOC	Replacement	Standard Control	N/A	Distribution Substations	Various	-	\$ 182,651	\$ 183,524	\$ 183,994	\$ 184,352	\$ 184,859
REP_02.02.01	11kV Air Insulated Switchboards - Vacuum CB - ZN	3 - Reactive Asset	Renewal	\$ 5,357	\$ 5,545	\$ 5,724	\$ 5,903	\$ 6,095	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	Y	\$ 4,190	\$ 4,210	\$ 4,221	\$ 4,229	\$ 4,241
REP_02.02.05	33kV Bulk Oil OD Circuit Breakers - ZN	1 - Planned	Renewal	\$ 3,362,601	\$ -	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 2,681,920	\$ -	\$ -	\$ -	\$ -
REP_02.02.06	System Spare Transformers - ZN	3 - Reactive Asset	Renewal	\$ 2,134,548	\$ 2,209,704	\$ 2,280,874	\$ 2,352,440	\$ 2,428,785	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 1,669,731	\$ 1,677,710	\$ 1,682,008	\$ 1,685,285	\$ 1,689,915
REP_02.02.09	Earthing system - ZN	1 - Planned	Renewal	\$ 363,385	\$ 432,560	\$ 491,953	\$ 546,138	\$ 598,817	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	Y	\$ 216,347	\$ 250,334	\$ 220,495	\$ 253,259	\$ 255,047
REP_02.02.38	33kV I&Es - ZN	1 - Planned	Renewal	\$ 1,141,703	\$ 1,183,861	\$ 1,223,259	\$ 1,262,420	\$ 1,304,660	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 865,684	\$ 874,749	\$ 874,749	\$ 877,064	\$ 880,458
REP_02.02.41	Post VTs - ZN	2 - Conditional	Renewal	\$ 708,783	\$ 735,159	\$ 759,670	\$ 784,099	\$ 810,445	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 520,849	\$ 524,422	\$ 526,393	\$ 527,845	\$ 529,929
REP_02.02.42	Substation Roof - ZN	1 - Planned	Renewal	\$ 1,481,220	\$ 1,542,195	\$ 1,598,799	\$ 1,652,049	\$ 1,711,679	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	Y	\$ 1,231,990	\$ 1,246,776	\$ 1,256,648	\$ 1,262,088	\$ 1,271,116
REP_02.02.43	Pits Lids - ZN	3 - Reactive Asset	Renewal	\$ 14,457	\$ 14,966	\$ 15,448	\$ 15,932	\$ 16,449	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	Y	\$ 11,308	\$ 11,363	\$ 11,392	\$ 11,414	\$ 11,445
REP_02.02.46	SCADA Schemes - ZN	1 - Planned	Renewal	\$ 975,935	\$ 553,425	\$ 570,608	\$ 588,009	\$ 606,364	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 832,273	\$ 454,826	\$ 455,543	\$ 456,089	\$ 456,861
REP_02.02.47	Steel Structures - ZN	2 - Conditional	Renewal	\$ 289,973	\$ 300,530	\$ 310,499	\$ 320,357	\$ 330,995	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 232,279	\$ 233,759	\$ 234,647	\$ 235,225	\$ 236,105
REP_02.02.48	PINC/MPLS Edge - ZN	3 - Reactive Asset	Renewal	\$ 101,203	\$ 104,767	\$ 108,141	\$ 111,534	\$ 115,154	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 79,165	\$ 79,544	\$ 79,747	\$ 79,903	\$ 80,122
REP_02.02.49	Lightning Spires - ZN	3 - Reactive Asset	Renewal	\$ 149,478	\$ 154,741	\$ 159,725	\$ 164,737	\$ 170,083	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 116,928	\$ 117,487	\$ 117,788	\$ 118,017	\$ 118,341
REP_02.02.51	Protection Schemes - ZN	1 - Planned	Renewal	\$ 1,568,803	\$ 1,835,825	\$ 1,897,341	\$ 1,958,739	\$ 2,025,013	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 1,121,015	\$ 1,265,661	\$ 1,270,575	\$ 1,274,321	\$ 1,279,615
REP_02.02.52	Power Reactors - ZN	3 - Reactive Asset	Renewal	\$ 309,460	\$ 320,355	\$ 330,673	\$ 341,049	\$ 352,117	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 242,072	\$ 243,229	\$ 243,852	\$ 244,327	\$ 244,998
REP_02.02.53	Transformer Replacement (utilising existing holdings) - ZN	2 - Conditional	Renewal	\$ 8,181,844	\$ 8,451,874	\$ 8,715,373	\$ 8,980,648	\$ 9,261,134	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 7,126,042	\$ 7,148,620	\$ 7,161,905	\$ 7,170,805	\$ 7,184,171
REP_02.02.54	CLC Controllers - ZN	3 - Reactive Asset	Renewal	\$ 256	\$ 265	\$ 273	\$ 282	\$ 291	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 200	\$ 201	\$ 201	\$ 202	\$ 202
REP_02.02.59	Neutral Earthing Resistors - ZN	1 - Planned	Renewal	\$ 949,569	\$ 489,345	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 869,534	\$ 435,294	\$ -	\$ -	\$ -
REP_02.02.60	11kV Switchboard Protection - ZN	1 - Planned	Renewal	\$ 512,457	\$ 532,561	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 340,276	\$ 343,385	\$ -	\$ -	\$ -
REP_02.02.61	High Impedance Busbar Protection - ZN	1 - Planned	Renewal	\$ 468,389	\$ -	\$ -	\$ -	\$ -	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 314,958	\$ -	\$ -	\$ -	\$ -
REP_02.02.62	SCADA Equipment - ZN	1 - Planned	Renewal	\$ 415,438	\$ 431,347	\$ 445,946	\$ 460,490	\$ 476,234	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 287,304	\$ 289,598	\$ 290,835	\$ 291,777	\$ 293,109
REP_02.02.64	Audio Frequency Load Control Equipment - ZN	3 - Reactive Asset	Renewal	\$ 5,175	\$ 5,357	\$ 5,530	\$ 5,703	\$ 5,888	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 4,048	\$ 4,067	\$ 4,078	\$ 4,086	\$ 4,097
REP_02.03.01	132 kV Circuit Breakers - ZN	3 - Reactive Asset	Renewal	\$ 123,846	\$ 128,207	\$ 132,336	\$ 136,488	\$ 140,918	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 96,878	\$ 97,341	\$ 97,590	\$ 97,780	\$ 98,049
REP_02.03.03	66kV Circuit Breakers - ZN	3 - Reactive Asset	Renewal	\$ 34,890	\$ 36,118	\$ 37,282	\$ 38,451	\$ 39,699	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 27,292	\$ 27,423	\$ 27,493	\$ 27,547	\$ 27,622
REP_02.03.04	33kV Circuit Breakers - ZN	3 - Reactive Asset	Renewal	\$ 133,922	\$ 138,638	\$ 143,103	\$ 147,593	\$ 152,383	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 104,760	\$ 105,260	\$ 105,530	\$ 105,735	\$ 106,026
REP_02.03.05	132/66kV Bushings - ZN	1 - Planned	Renewal	\$ 834,922	\$ 1,290,218	\$ 19,327	\$ 19,933	\$ 20,580	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 658,042	\$ 987,555	\$ 14,252	\$ 14,280	\$ 14,319
REP_02.03.07	Protection Relays - ZN	1 - Planned	Renewal	\$ 1,793,840	\$ 1,670,516	\$ 1,726,437	\$ 1,782,262	\$ 1,842,502	REP & DOC	Replacement	Standard Control	N/A	Zone Substation Equipment	Various	-					

REP_05.02.14	System Spares - TM (OH & UG)	3 - Reactive Asset	Renewal	\$ 303,236	\$ 313,913	\$ 324,024	\$ 334,190	\$ 345,036	REP & DOC	Replacement	Standard Control	N/A	Sub-Transmission Mains	Various	-	\$ 237,204	\$ 238,337	\$ 238,948	\$ 239,413	\$ 240,071
REP_05.02.23	Insulator Replacement - 33KV Pole Lines	3 - Reactive Asset	Renewal	\$ 232,007	\$ 240,176	\$ 247,912	\$ 255,690	\$ 263,988	REP & DOC	Replacement	Standard Control	N/A	Sub-Transmission Mains	Various	Y	\$ 181,486	\$ 182,353	\$ 182,820	\$ 183,176	\$ 183,680
REP_05.02.24	Protection Pilots	3 - Reactive Asset	Renewal	\$ 108,688	\$ 112,515	\$ 116,139	\$ 119,783	\$ 123,670	REP & DOC	Replacement	Standard Control	N/A	Sub-Transmission Mains	Various	-	\$ 85,020	\$ 85,426	\$ 85,645	\$ 85,812	\$ 86,048
REP_05.02.25	Insulator Replacement - 66KV Pole Lines	3 - Reactive Asset	Renewal	\$ 32,439	\$ 33,582	\$ 34,663	\$ 35,751	\$ 36,911	REP & DOC	Replacement	Standard Control	N/A	Sub-Transmission Mains	Various	Y	\$ 25,375	\$ 25,497	\$ 25,562	\$ 25,612	\$ 25,682
REP_05.02.26	Ground Stays	1 - Planned	Renewal	\$ 334,112	\$ 331,098	\$ 342,734	\$ 354,203	\$ 366,765	REP & DOC	Replacement	Standard Control	N/A	Sub-Transmission Mains	Various	-	\$ 215,675	\$ 207,652	\$ 208,899	\$ 209,810	\$ 211,122
REP_05.02.29	Replace ST Feeder OH Earth Wire	2 - Conditional	Renewal	\$ 5,863,725	\$ 6,075,176	\$ 6,275,617	\$ 6,473,981	\$ 6,687,696	REP & DOC	Replacement	Standard Control	N/A	Sub-Transmission Mains	Various	Y	\$ 4,764,117	\$ 4,792,964	\$ 4,810,362	\$ 4,821,592	\$ 4,838,768
REP_05.03.01	TMOH Reactive Replacement	3 - Reactive Asset	Renewal	\$ 2,012,468	\$ 2,083,325	\$ 2,150,424	\$ 2,217,898	\$ 2,289,876	REP & DOC	Replacement	Standard Control	N/A	Sub-Transmission Mains	Various	-	\$ 1,574,234	\$ 1,581,757	\$ 1,585,810	\$ 1,588,898	\$ 1,593,264
SUPP_44.01.01	Strategic Property Acquisitions	1 - Planned	Various	\$ 8,146,774	\$ -	\$ -	\$ -	\$ -	OTHER	Various	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 7,919,099	\$ -	\$ -	\$ -	\$ -
SUPP_44.01.013	Switching and Control	Support	Overheads	\$ 16,008,213	\$ 16,678,313	\$ 17,270,386	\$ 17,862,786	\$ 18,438,430	OTHER	Support	Standard Control	N/A	Other	Various	-	\$ 9,530,740	\$ 9,652,194	\$ 9,715,522	\$ 9,767,952	\$ 9,800,956
SUPP_44.01.016	Capital Delivery Program	Support	Overheads	\$ 3,663,729	\$ 3,816,854	\$ 3,956,928	\$ 4,090,086	\$ 4,229,437	OTHER	Network Overhead	Standard Control	N/A	Other	Various	-	\$ 2,737,300	\$ 2,772,080	\$ 2,794,285	\$ 2,807,377	\$ 2,822,107
SUPP_44.01.017	System Land Lease	1 - Planned	Various	\$ 5,340,762	\$ 4,338,087	\$ 4,488,096	\$ 4,639,651	\$ 4,796,324	OTHER	Various	Standard Control	N/A	Zone Substation Equipment	Various	-	\$ 5,191,506	\$ 4,099,006	\$ 4,122,234	\$ 4,142,343	\$ 4,162,549
SUPP_44.01.03	Network Planning	Support	Overheads	\$ 32,849,506	\$ 34,043,895	\$ 35,176,144	\$ 36,294,549	\$ 37,413,611	OTHER	Network Overhead	Standard Control	N/A	Other	Various	-	\$ 24,565,549	\$ 24,710,897	\$ 24,797,989	\$ 24,856,639	\$ 24,886,053
SUPP_44.01.04	GIS Data Capture	Support	Overheads	\$ 13,996,332	\$ 14,578,479	\$ 15,101,051	\$ 15,612,019	\$ 16,175,392	OTHER	Support	Standard Control	N/A	Other	Various	-	\$ 8,934,800	\$ 9,046,454	\$ 9,110,113	\$ 9,154,798	\$ 9,220,419