

Essential Energy

10.02 Replacement Expenditure Overview

December 2022



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Purpose and context

Our 2024–29 Regulatory Proposal (Proposal) comprises a suite of documents that provides information required under the National Electricity Rules (NER). This includes:

- > Supporting attachments to substantiate our Proposal.

The purpose of this document is to provide a reference table which identifies the supporting documents and financial summary for System Replacement capital expenditure.

Reference table

The reference table below identifies each investment case for the Replacement category of our regulatory proposal.

Table 1: Reference table for Repex

Document Reference	Document Title	2024–29 Direct (\$FY24)	2024–29 Fully Allocated (\$FY24)
10.02.01	Poles Investment Case*	\$418.3M	\$676M
10.02.24	Composite Poles Transition Business Case		
10.02.02	Pole Top Equipment Investment Case	\$231.8M	\$375.1M
10.02.03	Overhead Conductors Investment Case	\$43.1M	\$69.7M
10.02.04	Overhead Customer Service Connections Investment Case	\$32.2M	\$52M
10.02.05	Overhead Links, Switches and Fuses Investment Case	\$21.2M	\$34.3M
10.02.06	Load Control Investment Case	\$22.3M	\$36.1M
10.02.07	Zone Sub Outdoor Busbar, Isolators and Disconnectors Investment Case	\$10.2M	\$16.6M
10.02.08	Zone Substation Transformers Investment Case	\$28.5M	\$46.2M
10.02.09	Reactive Plant Investment Case	\$ 4.1M	\$6.6M
10.02.10	Switchboards Investment Case	\$11.2M	\$18.2M
10.02.11	Surge Arrestors Investment Case	\$0.6M	\$0.9M
10.02.12	Stand Alone Power System (SAPS) Investment Case	\$52.2M	\$83.9M
10.02.13	Underground Cables Investment Case**	\$51.9M	\$84M
10.02.14	Underground Pits, Pillars and Cubicles Investment Case	\$8.8M	\$14.3M

Document Reference	Document Title	2024–29 Direct (\$FY24)	2024–29 Fully Allocated (\$FY24)
10.02.15	Voltage Regulators Investment Case	\$3.0M	\$4.7M
10.02.16	Instrument Transformers Investment Case	\$16.7M	\$27M
10.02.17	HV Ring Main Units Investment Case	\$39.7M	\$64.2M
10.02.18	Auxiliary AC/DC Systems Investment Case	\$5.4M	\$8.8M
10.02.19	Protection and Control Systems Investment Case	\$16.0M	\$25.8M
10.02.20	Distribution Power Transformers Investment Case	\$55.4M	\$101.2M
10.02.21	Electrical Network Telecommunications System Investment Case	\$16.5M	\$26.7M
10.02.22	Circuit Breakers Investment Case	\$21.5M	\$34.8M
10.02.23	Substation Buildings and Property Investment Case	\$10.6M	\$17.2M

Note:

* Includes Resilience spend for risk based composite poles (**Attachment 10.06.01**) and transition to composite poles

** Includes resilience spend for risk based undergrounding (**Attachment 10.06.02**)