

Sub-transmission Major Project List 2020-25

January 2019



Executive Summary

The purpose of this document is to provide a list of all major sub-transmission projects that Ergon Energy is proposing to seek approval for and initiate during the regulatory control period 2020-25.

A brief description of each project is provided along with the estimated cost, timing and program funding source.

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1. General Information

This document provides a list of all of the major sub-transmission projects that Ergon Energy is proposing to seek approval for and initiate during the regulatory control period 2020-25.

Please note the following:

- All projects are shown in direct \$18/19, exclusive of overheads
- All projects where the most expensive credible option considered exceeds the threshold for the regulatory investment test for distribution (RIT-D) will require a completed RIT-D to determine the final project scope and cost estimate. The threshold for the RIT-D will be \$6M from the 1st of January, 2019 and applies to the total cost of the project.
- Key projects that have an estimated cost in excess of \$10 million will have a detailed planning report or business case presented to the AER as part of Ergon Energy's regulatory proposal.
- Major projects are defined as those where the preferred option exceeds \$3M direct cost.
- The program (Augex or Repex) from which the project will be funded is provided. In some cases, the project may address a combination of Augex and Repex needs.
- All financials presented in this document are correct at the time of writing and represent the existing organisational accounting treatment, which may be subject to change.

2. List of Sub-Transmission Major Projects

2.1 Ergon Energy – Southern Region

Project Title	Description	Estimate (18/19 \$M)	Required by Date	Type
M028 Childers to Gayndah 66kV Line Replacement	<p>M028 is a 92km, 64year old 66kV natural wood pole feeder that runs from Childers to Gayndah and supplies the towns of Degilbo, Gayndah, Mundubbera Town and Eidsvold as well as the Mount Rawdon gold mine. The line supplies a peak load of 30.8MVA across 5,368 residential, rural and industrial customers. There is a newer line M049 that provides a partial backup supply for load under the loss of M028.</p> <p>The M028 line is past end of life. A replacement project was initiated during the current regulatory period but has been delayed due to customer drivers and refinement of the scope. Continued operation of the existing line presents a high safety risk due to the condition of poles and conductor along the length of the line.</p> <p>This project replaces the end of life 66kV natural wood pole feeder with a current standard, single circuit, concrete pole feeder that removes the existing safety risks and provides a secure network supply to these communities into the future.</p>	38.1	2023	Repex
Kilkivan BSP and Kilkivan Town ZS Age Replacement and Reinforcement	<p>Kilkivan 132/66kV Bulk Supply Point (KILK T12) is located in the South Burnett Region between Maryborough and Tarong and normally supplies the townships of Woolooga, Kilkivan, Murgon, Proston, Goomeri and their surrounding areas. The bulk supply point normally services a total of 9,004 customers and 18 MVA of current peak load. Within 1km of KILK T12 is Kilkivan Town 66/11 kV substation (KITO) which supplies the local township of Kilkivan and surrounding rural area, a total of 627 customers and 1.1 MVA at peak load. Customers in the area are predominantly residential and rural.</p>	14.0	2025	Repex

KILK T12 was constructed in 1969 with the majority of the original substation primary plant still in service and with aged secondary systems. KITO supplies the township of Kilkivan and surrounding rural area and was constructed in 1953 with these original assets now at end of life.

This project replaces KILK T12 bulk supply point substation due to condition and removes KITO, with the load to be supplied from KILK T12. The scope of works for KILK T12 is :

- replace two 132/66/11kV power transformers
- rationalise and replace the 132kV switchyard
- replace the 66kV switchyard, and
- associated secondary systems replacement

Rockhampton South ZS Condition Replacement

Rockhampton South (ROSO) is one of three substations that supply the Southern side of Rockhampton City, in Central Queensland. ROSO has a load of 17.2MVA and supplies 2,031 residential and predominantly commercial customers including the Rockhampton CBD.

ROSO was built in approximately 1968 with 2 x 20MVA transformers and has a range of aged asset issues including 11kV switchboard, transformers and primary plant.

Previous planning studies had recommended an additional substation in South Rockhampton at Wandal to unload ROSO and support long-term growth in the Rockhampton CBD. Under the current security criteria, Wandal substation will no longer proceed, reinforcing the need for a secure supply from ROSO.

This project will secure supply to the central business district of Rockhampton by replacing key equipment in the aging substation such as:

- 1 x 66/11kV transformer

12.1

2025

Repex

	<ul style="list-style-type: none"> • Aged 66kV primary plant • 11kV switchboard • Secondary systems replacement 			
Highfields Area Condition Replacement and Reinforcement	<p>Meringandan substation (MERN) is located North of Toowoomba, in South West Queensland, and is one of a number of substations that supplies the residential development area to the north of the city. MERN has a peak load of 10MVA and supplies 3,509 predominantly residential customers.</p> <p>MERN was established in approximately 1967 with a number of key network assets being this vintage, assessed as high risk and recommended for replacement. Space for redevelopment on the existing MERN site is constrained and so an adjacent site at Kleinton was purchased for a proposed future substation.</p> <p>This project recommends commencing staged construction of a new substation on the Kleinton site and decommissioning of the existing Highfields Substation in 2024 as the most efficient option. This strategy will ultimately also allow MERN substation to be decommissioned in approximately 2034. The Staged Development of the Kleinton substation and distribution feeders will also enable support to residential growth in the North of Toowoomba that would otherwise constrain the other existing substations in the area. This project will conclude with the decommissioning of HIGH in 2024.</p> <p>The scope of works includes:</p> <ul style="list-style-type: none"> • Install 1 x 20MVA modular 33/11kV substation on Kleinton site. Replace high-risk assets at MERN • 2024, Decommission HIGH 	11.4	2024	Repex
Blackwater Condition Replacement and 22kV Reinforcement	<p>Blackwater 132/66/22kV substation (BLAC) is a joint Powerlink/Ergon Energy substation in Western Central Queensland and is a major node that supplies the 132kV, 66kV and 22kV networks in the area. The Ergon BLAC 22kV load is supplied via 11kV tertiaries off the Powerlink 132/66kV transformers and is</p>	7.5	2022	Augex

then stepped to 22kV via Ergon owned 11/22kV regulators. The load on BLAC is 10.1MVA and supplies 2,159 industrial, commercial, residential and rural customers across Blackwater, Dingo, Duaringa townships and surrounding communities.

The majority of equipment at BLAC is original 1978 vintage with a number of individual projects initiated over previous and current regulatory periods to replace individual items of high-risk plant.

Powerlink Queensland has an approved project to replace the two bulk supply transformers from which Ergon Energy takes supply, removing the tertiary connections. As part of this change the following scope of works is recommended to security of supply and address key condition based risks at the substation:

- Replace 2 x 11/22kV transformers with 2x 66/22kV transformers,
- Replacement of 7 x 66kV circuit breakers and associated protection relays
- 22kV secondary systems replacement
- limited 22kV asset replacement

West Toowoomba 33kV Replacement	<p>West Toowoomba substation (WETO) is one of 5 substations supplying the city of Toowoomba in South West Queensland. WETO has a peak load of 19.4MVA and supplies 8,193 residential and commercial customers in the West Toowoomba area including the Clifford Gardens Shopping Centre.</p> <p>WETO was established in approximately 1959 with most primary plant installed in the early 1970s and now approaching end of life. A project is already initiated in the 19/20 FY to replace the 11kV switchyard with an 11kV Switchroom, but the transformers and 33kV switchyard still present a high risk of failure.</p> <p>This project is to secure the supply to customers in the West Toowoomba area</p>	9.4	2025	Repex
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	by replacing the aged 33kV switchyard and associated secondary systems with a new 33kV switchboard.			
Pialba ZS Condition Replacement	<p>Pialba substation (PIAL) is located in the town of Hervey Bay, in the Wide Bay region of Queensland. PIAL supplies 15.7MVA of load and supplies 4,169 predominantly commercial CBD and medical precinct customers.</p> <p>PIAL was established in approximately 1983 but utilised a number of aged primary plant components from other sites. PIAL has a 1967 vintage 11kV switchboard, problematic HLC 66kV Circuit Breakers, aged protection assets, and 66kV bus work with accelerated ageing from rust due to its coastal location.</p> <p>This project secures supply by installing a</p> <ul style="list-style-type: none"> • new 11kV switchroom building and associated secondary systems; • replacing two problematic 66kV CBs and associated primary plant, bus work and secondary systems 	8.0	2025	Repex
New 66kV Feeder from Future Nikenbah BSP and Point Vernon	<p>Point Vernon substation (POVE) is one of 3 substations in the town of Hervey Bay, in the Wide-Bay Burnett region of Queensland. POVE has a peak load of 20.7MVA in 2018 with the historic peak demand reaching 21.9MVA in 2017. POVE supplies 10,187 residential and commercial customers in the northern part of Hervey Bay.</p> <p>POVE is currently supplied by a single 5km radial 66kV line. Restoration times mean that loss of this line would result in unsupplied load that breaches Ergon Energy's Safety Net security criteria obligations. In addition, current development in Hervey Bay's western beaches area is forecast to require a new substation in the 2025-2030 regulatory period.</p>	7.9	2022	Augex

	<p>This project will provide improved supply security to customers in the Hervey Bay area by reinforcing the 66kV supply to POVE with a new line from Nikenbah. This 9km line route is proposed such that it can also support a future western beaches substation.</p>			
Charleville SVC Condition Replacement	<p>Charleville substation (CHAR) supplies the township of Charleville and surrounding communities in South West Queensland. Charleville is supplied via a 276km 66kV feeder from Roma bulk supply substation, with voltage management of this network a major customer consideration. CHAR has a peak load of 10.6MVA in 2018 and supplies 2,683 residential and rural customers.</p> <p>The Static-Var Compensator (SVC) at CHAR provides reactive support and voltage control, to enable network operation within statutory voltage limits. The SVC was installed in 1987, contains a range of specialist components that are no longer supported and is at end of life due to degradation. The replacement project was initiated in the current regulatory period, with Rit-D performed, with the aim of trying to find an efficient non-network solution in place of a traditional REPEX project that meets the required technical specifications. This process is ongoing.</p> <p>This proposed project secures supply to the Charleville area and the adjoining 66kV sub-transmission network with the replacement of the SVC with a modern equivalent. If a successful NNA solution is able to be implemented it will be funded by an efficient Capex/Opex trade-off.</p>	6.8	2022	Repex
Chinchilla Condition Replacement and 33kV Reinforcement	<p>Chinchilla T013 Bulk Supply Substation (CHIN T013) is located in the township of Chinchilla in South West Queensland and provides 33kV supply to the local sub transmission network. Peak load on T013 is 24.2MVA and supplies 3,214 predominantly rural customers.</p> <p>Chinchilla T013 BSP was established circa 1962 with a significant component of</p>	6.7	2025	Repex

original primary plant and aged secondary systems equipment currently in service.

This project secures supply to the local community through the replacement of the following condition based aged assets:

- Four 110kV transformers and regulators at T013 Chinchilla will be removed and replaced with a single 132/33kV power transformer
- Removal of associated 110kV assets
- Replacement of 132kV and 33kV secondary systems
- Replace one set 33kV CTs

Broxburn Condition Replacement and Reinforcement	<p>Broxburn substation (BROX) West of Toowoomba in South West Queensland supplies the communities of Broxburn, Pittsworth and Southbrook. Peak load on the substation is 8.3MVA and it supplies 2,568 residential, commercial and rural customers in the area including poultry farms. Load growth in the area is strong, driven by commercial and agricultural development.</p> <p>BROX was established in approximately 1966 with all original primary plant equipment still in service and approaching end of life. Because of its location, BROX has limited transfer capability to adjacent substations and with load growth breaches security criteria requirements.</p> <p>This project improves security of supply to the customers supplied from BROX with the installation of a new compact 33/11kV 10MVA substation, to be run in parallel with the existing site. This solution caters for growth, reduces the risk of poor condition assets at the existing BROX substation, as well as allowing for these assets to be strategically replaced or consolidated at a later stage</p>	6.3	2021	Augex
East Bundaberg to Burnett Heads 66kV Line Build	<p>The Burnett Heads area on the coast East of Bundaberg is undergoing sustained growth as a result of residential development towards the coast and due to the expansion of the Port of</p>	5.4	2022	Augex

Bundaberg. This area is currently supplied by the East Bundaberg substation (EABU) which has a peak load of 19.5MVA and is approaching its security criteria limit.

The Port of Bundaberg is a Port and associated commercial precinct is a designated Queensland Priority State Development Area with plans for further expansion. Port of Bundaberg has been in ongoing discussion with Energy Qld about energy supply requirements for the Port and there have been a number of both customer and network initiated 11kV reinforcement projects completed during the current regulatory period to reinforce supply to the area. There has also been an extensive investigation into Non-Network Solutions to support growth.

Customer and residential growth in the area will ultimately result in the need to establish a new 66/11kV zone substation at Burnett Heads, beyond the current regulatory period. This project builds towards that solution by establishing a new 66kV line on an existing easement. The line will be initially energised at 11kV to defer the need to establish the substation for as long as possible, but also provides the ability to quickly stage towards a 66/11kV solution if required.

Replacement of 11kV Switchboard and 66kV Assets at Biloela

Biloela 132/66/11kV (BILO) combined bulk supply and zone substation supplies the township of Biloela and surrounding communities and mines. Peak load on the 66/11kV substation is 17.7MVA and supplying 4,045 residential and rural customers in the area.

Biloela substation was established in approximately 1965 and has had a number of individual replacement projects initiated to address high-risk aged asset over the past 10 years. The 11kV switchboard and a number of the 66kV primary plant items are still original and at end of life.

This project secures supply to the Biloela community by replacing:

- Aged 11kV circuit breakers

3.8

2025

Repex

	<ul style="list-style-type: none"> • 11kV Secondary systems • 2 x 66kV CTs, 1 x 66kV VTs • 6 x 66kV protection relays 			
Kingaroy Township Reinforcement	<p>Kingaroy Substation (KING) in the Wide Bay Region of Queensland supplies the township of Kingaroy and surrounding communities. Peak load on KING is 23.2MVA and it supplies 8,189 commercial, residential and rural customers. Major customers include the Swickers Kingaroy Bacon Factory that processes ninety per cent of the pigs in Queensland and is the largest employer in the South Burnett region.</p> <p>Sustained load growth in Kingaroy has resulted in a number of 11kV distribution feeder limitations including lack of available 11kV circuit breakers at KING.</p> <p>This project increases 11kV distribution capacity in Kingaroy township to provide for increasing industrial and commercial loads and address security of supply issues in the Kingaroy network by 10MVA.</p>	3.4	2023	Augex
Increasing the Capacity of the Blackwater to Emerald 66kV Feeder	<p>Emerald substation (EMER) in the town of Emerald in Western Central Queensland has two incoming 66kV supplies from Blackwater BSP (100km) and Lilyvale BSP (70km). The 66kV feeder from Lilyvale is the primary supply and when out of service the feeder from Blackwater to Emerald is unable to supply the network load for large periods of the year due to voltage constraint and thermal ratings limitations. EMER has a peak load of 46.6MVA and supplies 9,239 residential, commercial and rural customers.</p> <p>An existing Non-Network project resulted in contracted voltage and VAR support from the third party Emerald Solar farm, helping manage volts during a contingency event on the Lilyvale line, but there are still outstanding thermal rating constraints that limit the ability to supply full load and meet security criteria requirements.</p> <p>This project increases the line design</p>	3.3	2021	Augex

temperature of the existing feeder to increase capacity and secure supply to the Emerald community. This project will work in conjunction with the NNA solution described above, as was the recommended from the RiT-D report.

2.2 Ergon Energy – Northern Region

Project Title	Description	Estimate (18/19 \$M)	Required by Date	Type
Cannonvale & Jubilee Pocket 66kV Reinforcement	<p>The Airlie Beach/Whitsunday region of North Queensland is supplied by four key substations which support the local community and tourism industry. The 66kV network from the main Cannonvale substation to the other substations has a current load of 16MVA with further growth expected through the redevelopment of a number of island resorts.</p> <p>This 66kV is currently a radial supply, breaching the security criteria requirements. In addition, the current supply is via sections of aged XLPE cable, with similar batches known to have recently failed and with any restoration of such a failure likely to result in extended outage duration to these customers. The Cannonvale substation also has a number of aged assets proposed for replacement, in particular, the 66kV substation switchgear.</p> <p>This project increases the reliability and security of supply to Jubilee Pocket, Mt Rooper, Shutehaven and the Hamilton, Hayman, Daydream and South Molle Islands in the Whitsundays. The scope of the project is to:</p> <ul style="list-style-type: none"> Establish a fully switched 66kV Switchyard at Cannonvale substation; Duplicate and establish management plans for the radial 66kV cable sections. 	16.5	2024	Augex
Mossman Substation Replacement	<p>Mossman Substation (MOSS) North of Cairns in Far North Queensland supplies the town of Mossman and surrounding communities. MOSS has a peak load of 7.3MVA and supplies 3,231 residential and rural customers.</p> <p>MOSS was established in approximately 1964 and the majority of the substation assets are due for replacement. MOSS is</p>	13.6	2021	Repex

supplied via two aged 66kV lines which run through sensitive Wet-Tropics area and are difficult and expensive to maintain. A new 132kV line runs past the substation as part of a historic plan to develop 132/66kV at the site.

This consolidated replacement project replaces the Mossman 66/22kV substation due to age and condition with a single 132kV tee, single 132/22kV transformer, 22kV switchroom and an expanded Yalkula substation 132kV bus as well as associated communications, protection and control works.

Garbutt 132/66/11kV Substation Refurbishment

Garbutt Bulk Supply substation (GARB) is a joint Powerlink/ Ergon Energy site and the main supply to the 66kV network supplying the city of Townsville in North Queensland. GARB supplies 48,500 customers and 86MVA of load at 66kV, comprising industrial, commercial and residential customers.

12.2

2022

Repex

GARB has a 66kV outdoor yard with a range of primary plant ages from 1950 onwards. The main issue with the 66kV yard is the age of the structures, being original 40-60 year old structures and independently assessed as being at end of life and presenting a safety hazard. Existing safety issues have already occurred with segmented insulators at this site.

The nature of this substation as a key node in Townsville and the configuration of the bus mean that in-situ replacement is not practical without significant risk of supply disruption to the community. In addition, a number of the primary plant components are also due for replacement under the CBRM model.

This project replaces Garbutt T046 substation 66kV outdoor bus and associated switchgear with a 66 kV indoor Gas Insulated Switchgear (GIS) equivalent, removing the safety and performance issues associated with the aged bus work. The scope includes 66kV feeder protection relays, 66kV bus protection, two 66kV GIS

	transformer bays, eight 66kV feeder bays, two 66kV capacitor bank bays, and one 66kV bus tie bay.			
Turkinje Replacement of Aged 66kV Assets	<p>Turkinje substation (TURK) T055 is a joint Powerlink/Ergon Energy site located in the tablelands, West of Cairns in Far North Queensland. TURK supplies 62MVA of 66kV load and supplies 33,247 customers across the area. It is a key node in the Atherton Tablelands, providing supply to nine separate zone substations.</p> <p>TURK was established in approximately 1964 with the majority of the original primary plant still in service. There is minimal forecast load growth at the substation however many assets are approaching or at the end of their service life and are due for replacement under the CBRM model.</p> <p>This project recommends replacing Turkinje T055 substation 66kV outdoor bus and associated switchgear with new air insulated switchyard, removing the safety and performance issues associated with the aged bay equipment. The scope includes:</p> <ul style="list-style-type: none"> • replacement of RTU • aged 66kV protection relay replacement • replacement of two 66kV transformer bays, five 66kV feeder bays and one 66kV bus section bay 	9.1	2023	Repex
Sarina Substation Replacement of Aged Assets	<p>Sarina substation (SARI) is located in the town of Sarina, near Mackay, in Central Queensland. SARI supplies 14.3MVA of load to the township and surrounds and supplies and 4,461 commercial, residential and rural customers.</p> <p>SARI was established in approximately 1965 with the 33kV switchyard and 11kV switchboard approaching end of life.</p> <p>This project recommends replacing Sarina substation 33kV and 11kV switchgear due to age and condition. The scope of this project will include replacing:</p> <ul style="list-style-type: none"> • 5 x 33kV CBs, • 10 x 33kV Isolators, 	8.8	2025	Repex

	<ul style="list-style-type: none"> • 11kV switchboard; • 11kV and 33kV secondary systems replacement • undertaking associated building works. 			
Cloncurry Supply Reinforcement	<p>This project increases the security of supply to Cloncurry through remedial work on the 66kV sub-transmission line between Mt Isa and Cloncurry. This project will involve installing intermediate poles in existing spans to increase the ground clearance and line rating and by replacing the existing 66/11kV step-up transformer at the Duchess Road substation in Mt Isa.</p>	5.8	2023	Augex
Planella Reinforcement	<p>Planella substation (PLAN) supplies the residential communities in the Northern Beaches of Mackay in Central Queensland. PLAN has a peak load of 15.7MA and supplies 6,162 customers.</p> <p>Planella substation is currently supplied by a radial 33kV wood pole feeder and has been assessed as being non-compliant against the Safety Net criteria requirements in the event of a credible failure. Forecast load growth for the area increases the need for an additional feeder to secure supply and ensure security criteria requirements are met.</p> <p>This project scope is for the construction of a new 33kV feeder from Glenella to Planella substations along existing easements. A number of existing NNA programs have been run in this area and will be reviewed in line with other options as part of a RiT-D analysis.</p>	5.4	2023	Augex
Cape River Substation Replacement of Aged Plant	<p>Cape River (CARI) is a small substation, West of Townsville in North Queensland. CARI supplies 0.7MVA of load and 265 customers in the local supply area.</p> <p>CARI was established in approximately 1977 and has a range of plant scheduled for replacement over the next 10years.</p> <p>This project retires the Cape River substation due to age and condition by establishing a single 33/11kV transformer and associated 11kV switchgear at the</p>	4.3	2022	Repex

	recently constructed 132/66/33kV Cape River East (CARE) Substation.			
Georgetown Replacement of SVC	<p>Georgetown Substation (GEOR), North West of Townsville in North Queensland, is supplied via a 387km 132kV feeder from Ross 275/132kV bulk supply substation. This network extends at 66kV past GEOR 138km to Croydon and further 152km to Normanton, in the Gulf of Carpentaria, making it one of the largest and most complex networks in Ergon Energy and Australia. Voltage management of this network is a major consideration, particularly with the increased number of renewable generators that have connected in recent years. Overall this systems supplies 8MVA of load and 1,764 customers.</p> <p>The Static-Var Compensator (SVC) at GEOR provides reactive support and voltage control, to enable network operation within statutory voltage limits. The SVC was installed in 1990, contains a range of specialist components that are no longer supported and is approaching end of life due to equipment degradation.</p> <p>This project recommends replacing the 6.6kV Static Var Compensator at the Georgetown substation due to age and condition with a modern equivalent. The replacement will provide equivalent capability to maintain power quality to the Gulf communities.</p>	4.0	2023	Repex
Mount Garnet Replacement of Aged Assets	<p>Mount Garnet Substation (MOGA), South West of Cairns in Far North Queensland supplies the township of Mount Garnet and surrounding communities. Load on the substation is low at 1.7MVA and the substation supplies 494 predominantly rural customers.</p> <p>MOGA was established in approximately 1957 with original substation assets still in service and at end of life.</p> <p>This project recommends replacing the two 66/22kV transformers and various 66kV and 22kV switchgear due to age and condition.</p>	3.6	2024	Repex

Moranbah Replacement of Aged 66kV Assets	<p>Moranbah 132/66/11kV substation (MORA) T034 is a joint Powerlink/Ergon Energy substation located in the mining town of Moranbah, west of Mackay in Central Queensland. The substation supplies 21MVA of load and 4,484 customers at 11kV and 80MVA of load at 66kV to heavy industrial customers. Reliability is a key consideration for the industrial businesses supplied in this area.</p> <p>MORA was established in approximately 1972 with many of the assets installed in the early 1980s. A number of the older assets are approaching end of life and are due for replacement.</p> <p>This project recommends replacing a number of oil insulated 66kV instrument transformers and switching devices due to age and condition.</p>	3.2	2024	Repex
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