

Forecast Map of Distribution System 2020-25

January 2019



2020-25 Reset RIN Schedule 1 Supporting Document

Section 31.1 – Forecast Map of Distribution System

January 2019

1. Purpose

The purpose of this document is to provide supportive data in response to Section 31.1 of Schedule 1 “Provide a forecast map of Ergon Energy’s distribution system for the forthcoming regulatory control period. This map, together with any appropriate accompanying notes, should also indicate the location of new major network assets proposed to be constructed over the forthcoming regulatory control period”.

2. Forecast Investment Table

Table 1 details new Major Subtransmission Investments (>\$5M Direct Costs \$2019/20) for the Ergon Energy Network.

Table 1: New Major Subtransmission Investments – Ergon Energy

MAP REF	CAPEX CATEGORY	SUBSTATION / LINE ID	TYPE	PROJECT ID	PROJECT TYPE
A	AUGEX	132/66/11kV Moranbah Zone Substation (MORA)	Zone substation	1035018	Substation upgrade - capacity
B	AUGEX	66/11kV Gracemere Zone Substation (GRACE)	Zone substation	317031	New substation establishment
C	AUGEX	66/11kV Cannonvale Zone Substation (CANN)	Switching station	1274424	Substation upgrade - other
D	AUGEX	132/66/22kV Blackwater Zone Substation (BLAC)	Zone substation	1274718	Substation upgrade - other
E	AUGEX	33/11kV Broxburn Zone Substation	Zone substation	1266675	Substation upgrade - capacity
F	AUGEX	Egans Hill-Gracemere 66kV - New Line Construction	Subtransmission Lines	575416	New line on new route - single circuit
G	AUGEX	Planella (PLAN) Second 33kV - New Line Construction	Subtransmission Lines	1273009	New line on new route - dual circuit
H	AUGEX	Duchess Road (DURO) to Cloncurry (CLON) 66kV - Line Reinforcement	Subtransmission Lines	1346920	Line upgrade - raising/retensoring
I	AUGEX	Reinforce Burnett Heads 66kV - New Line Construction	Subtransmission Lines	1274346	New line on new route - single circuit
J	AUGEX	Nikenbah (NIKE) to Point Vernon (POVE) 66kV - New Line Construction	Subtransmission Lines	1170529	New line on new route - single circuit

MAP REF	CAPEX CATEGORY	SUBSTATION / LINE ID	TYPE	PROJECT ID	PROJECT TYPE
K	REPEX	Childers - Gaydah 66kV Subtransmission Line - Aged Asset Replacement	Subtransmission Lines	1266688	Aged Asset Replacement
L	REPEX	66/11kV Kilkivan Town Zone Substation (KITO) - Aged Asset Replacement	Zone substation	1214829	Aged Asset Replacement
M	REPEX	66/22kV Mossman Zone Substation (MOSS) - Aged Asset Replacement	Zone substation	1273666	Aged Asset Replacement
N	REPEX	132/66/11kV Garbutt Zone Substation (T046 GARB) - Aged Asset Replacement	Zone substation	1310762	Aged Asset Replacement
O	REPEX	33/11kV Meringandan Zone Substation (MERN) - Aged Asset Replacement	Zone substation	1339663	Aged Asset Replacement
P	REPEX	33/11kV West Toowoomba Zone Substation (WETO) - Aged Asset Replacement	Zone substation	1073652	Aged Asset Replacement (Stage 1)
Q	REPEX	132/66kV Turkinje Zone Substation (TURK) - Aged Asset Replacement	Zone substation	1339630	Aged Asset Replacement
R	REPEX	33/11kV Mackay City Zone Substation (MACT) - Aged Asset Replacement	Zone substation	1212974	Aged Asset Replacement
S	REPEX	66/11kV Pialba Zone Substation (PIAL) - Aged Asset Replacement	Zone substation	1339698	Aged Asset Replacement
T	REPEX	132/110/33kV Chinchilla Zone Substation (CHIN) - Aged Asset Replacement	Zone substation	1256310	Aged Asset Replacement
U	REPEX	66/11kV Rockhampton South Zone Substation (ROSO) - Aged Asset Replacement	Zone substation	1339616	Aged Asset Replacement
V	REPEX	66/11kV Howard Zone Substation (HOWA) - Aged Asset Replacement	Zone substation	1231476	Aged Asset Replacement
W	REPEX	66/22kV Charleville Zone Substation (CHAR) - Aged Asset Replacement	Zone substation	445103	Aged Asset Replacement
X	REPEX	33/11kV West Toowoomba Zone Substation (WETO) – Aged Asset Replacement	Zone substation	1339684	Aged Asset Replacement (Stage 2)
Y	REPEX	33/11kV Sarina Zone Substation (SARI) – Aged Asset Replacement	Zone substation	1339636	Aged Asset Replacement

3. Forecast Maps

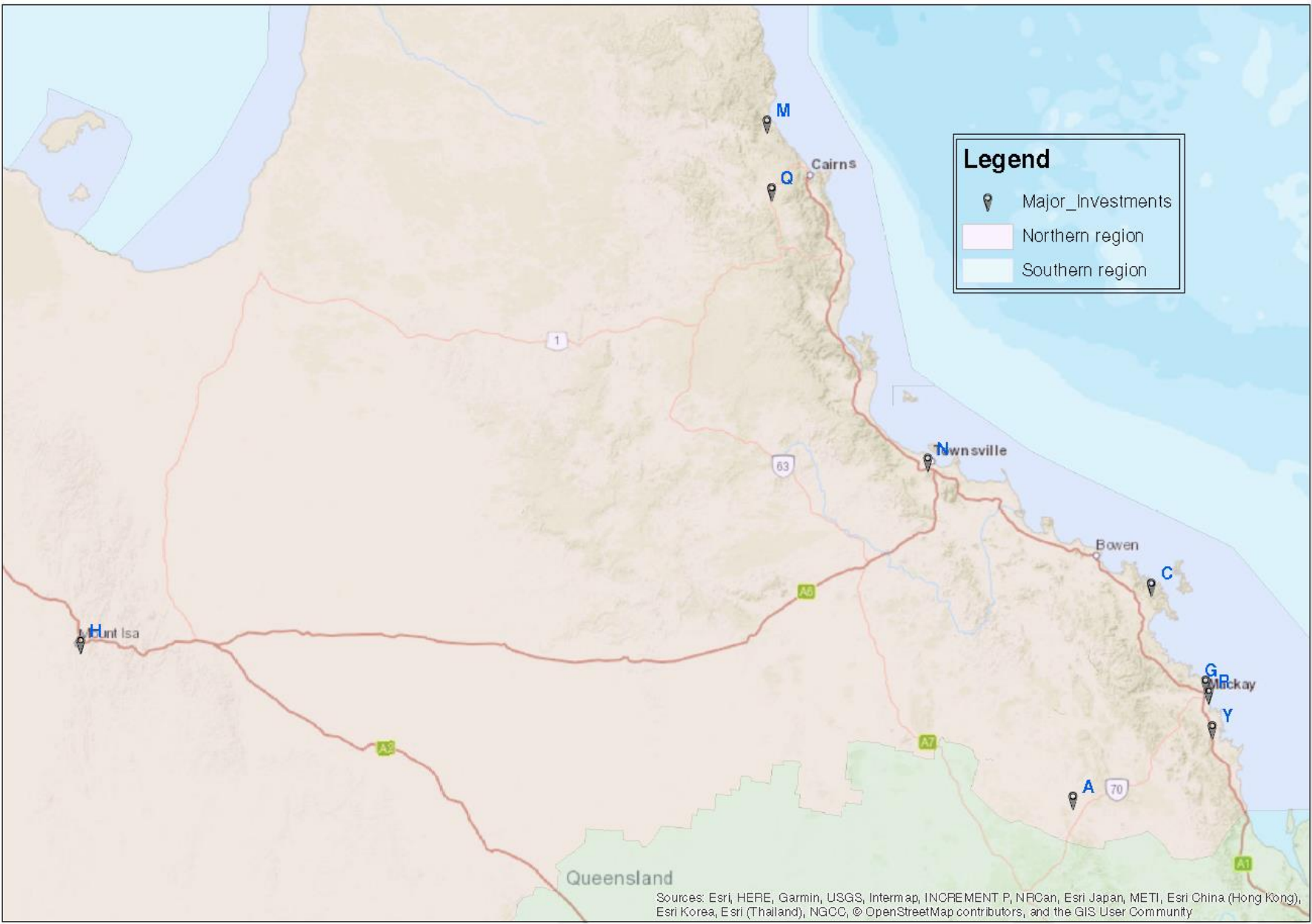
3.1 Major Investment Forecast Maps

Diagrams 1, 2 and 3 below provide a geographical representation of the major investment proposed for the Ergon Energy network as detailed in table 1.

Diagram 1: Major Investment Forecast Map – Ergon Energy



Diagram 2: Major Investment Forecast Map – Ergon Energy Northern Region





3.2 Ergon Energy Transmission and HV Network Map

Diagram 4 below provides a geographic view of the transmission and HV network for Ergon Energy

Diagram 4: Detail Transmission and HV Network Map – Ergon Energy

