



# Jemena Electricity Networks (Vic) Ltd

## Response to the Price Reset Regulatory Information Notice

Written Response

Information for the 2021-2026 Regulatory RIN



## 31. Forecast Map of Distribution System

- 31.1 Provide a forecast map of *Jemena'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*.

Please refer to the following RIN supporting attachments of the applicable geospatial maps and their corresponding tables of proposed major network assets to be constructed over the forthcoming regulatory period:

- JEN – RIN – S1 31.1 Proposed Augmentation Projects FY 2021-2026 – 20200131 - Public

**Table 1: FY21 network augmentation plans**

Project driver	Preferred network solution	Project reference number
CS feeder capacity constraint	Augment Feeder CS5	1
EP asset condition and thermal capacity constraint, and safety	EP Conversion Stage 5	2
COO & ST capacity constraint	Augment ST feeders	3
AW feeders capacity constraint	Reconfigure feeder - AW Feeders	4
SBY-32 and SBY-11 back up supply	Establish tie-line between SBY32 and SBY11	5
KTS-BY-ES 66 kV loop thermal capacity constraint	Augment KTS-BY-ES 66kV loop	6

**Table 2: FY22 network augmentation plans**

Project driver	Preferred network solution	Project reference number
YVE feeder capacity constraint	Reconfigure Feeder - YVE11	7
ES feeder capacity constraint	Reconfigure Feeder – ES0-023	8

**Table 3: FY23 network augmentation plans**

Project driver	Preferred network solution	Project reference number
BTS-NS-BTS 22 kV loop thermal capacity	Augment BTS-NS 22 kV loop	9
KLO-13 capacity constraint	Reconfigure feeder KLO-21	10
NT feeder capacity constraint	Augment Feeder NT0-011	11
EP asset condition and thermal capacity constraint, and safety	EP Conversion Stage 6	12
Safety risk associated high bushfire risk area	Install REFCL at COO and COO REFCL Feeder Works, and new Greenvale zone substation	13

**Table 4: FY24 network augmentation plans**

Project driver	Preferred network solution	Project reference number
FE-06 thermal capacity constraint	Augment feeder FE-06 and rebalance the load between FE-06 and YVE feeders	14
NS-18 thermal capacity	Augment feeder NS-18	15
HB-14, HB-15 and HB-22 thermal capacity	Install a new HB feeder (HB-21)	16
BTS-FF sub-transmission loop thermal capacity constraint	Augment BTS-FF 22 kV loop	17
EP asset condition and thermal capacity constraint, and safety	EP Conversion Stage 7	18

**Table 5: FY25 network augmentation plans**

Project driver	Preferred network solution	Project reference number
SBY feeder thermal capacity constraint	Reconfigure feeder SBY-024	19
AW-06 and AW-07 thermal capacity	Establish new feeder TMA-15	20
COO-22 and ST-32 capacity constraint	Reconfigure feeders COO-22, ST-31 and ST-32	21
BD08, BD13 and ST34 feeder thermal capacity constraint	Reconfigure BD and ST feeders	22
EP asset condition and thermal capacity constraint, and safety	EP Conversion Stage 8	23

**Table 6: FY26 network augmentation plans**

Project driver	Preferred network solution	Project reference number
FT11, FT26, FT31 and FT32 thermal capacity constraint	Establish new feeder FT-12	24
SBY-24 thermal capacity constraint	Augment steel section of Feeder SBY-024	25
NS-15 thermal capacity and reliability	Augment feeder NS-15	26
SBY-23 thermal capacity and steady state voltage power quality	Augment feeder SBY-23 and install a voltage regulator	27

- JEN – RIN – S1 31.1 Proposed Replacement Projects FY 2021-2026 - 20200131 - Public

**Table 7: FY21 network asset replacement plans**

Network limitation	Preferred network solution	Project reference number
FE CB asset condition	Replace 66 kV circuit breaker at FE	28
HB CB asset condition	Replace 66 kV circuit breaker at HB	29

**Table 8: FY22 network asset replacement plans**

Network limitation	Preferred network solution	Project reference number
FW switchgear and relay asset condition	Replace 22 kV switchgear and relay at FW	30
FW CB asset condition	Replace 66 kV circuit breakers at FW	31
FE switchgear asset condition	Replace 22 kV switchgear at FE	32
HB transformer asset condition	Replace HB transformers	33
BD transformer asset condition	Replace BD transformer	34
FE & FW capacitor bank asset condition	Replace capacitor bank CB's - FE & FW	35
BY relay asset condition	Replace BY 22kV Feeder Relays	36

**Table 9: FY23 network asset replacement plans**

Network limitation	Preferred network solution	Project reference number
CN 66 kV switchgear asset condition	Replace CN 66kV 1-2 Bus-Tie CB	37

**Table 10: FY24 network asset replacement plans**

Network limitation	Preferred network solution	Project reference number
CN switchgear and relay asset condition	Replace 22 kV switchgear and relay at CN	38
ES & CN capacitor bank asset condition	Replace capacitor bank CB's - ES & CN	39

**Table 11: FY25 network asset replacement plans**

Network limitation	Preferred network solution	Project reference number
BLTS 22 kV switchgear asset condition	Replace 22 kV Switchgear - BLTS	40

**Table 12: FY26 network asset replacement plans**

Network limitation	Preferred network solution	Project reference number
CS switchgear and relay asset condition	Replace 22 kV switchgear and relay at CS	41
NS relay asset condition	Replace aged relays at NS	42
NH/NEI relay asset condition	Replace aged relays at NH/NEI including TTS	43