



Jemena Electricity Networks (Vic) Ltd

2022 Annual Compliance Report

Legislated Bushfire Mitigation Programs

As at 30 April 2022



1. Overview

Under Section 120P of the Electricity Safety Act, Jemena Electricity Networks (Vic) Ltd (JEN) is required to submit an Annual Compliance Report to ESV before 1 August each year.

The report covers the status of three additional bushfire mitigation duties as:

- installation of Rapid Earth Fault Current Limiters (**REFCL**) (or similar technology) with performance capacities as prescribed in the bushfire mitigation regulations;
- construction of electric power lines in areas defined “Electric Line Construction Areas” (**ELCA**) in the Act; and
- installation of Automatic Circuit Reclosers (**ACR**) for Single Wire Earth Return (**SWER**) lines.

JEN does not have electric power lines in ELCA and all SWER lines were removed by 2012. The status of the delivery of the prescribed RECFL at JEN Zone Substation, Coolaroo (**COO**), is reported below.

2. S 120 p Annual Compliance Report

2.1.1 REFCL Program Status [S120 P (1) a(i)] (as at 30 April 2022)

JEN REFCL Project Activities		Date Completed	Percentage Completed	Weightings (indicative only)
Initiate	Business Case commenced	Feb 2021	100%	5%
	Business Case approval	Jun 2021	100%	5%
Design	Design commenced	Jan 2021	100%	5%
	Design complete		95%	5%
Procurement	No. of REFCL units required		Two (2)	
	REFCL order placed	Aug 2021	100%	5%
	REFCL delivered to site		70%	10%
Construction-Lines	Line works commenced	Sep 2021	100%	5%
	Line works completed		50%	10%
Construction-Stations	Station works commenced	Nov 2021	100%	5%
	Station works complete		70%	10%
Construction-Third Party	No. of affected HV Customer Connections		Two (2)	
	HV customer works commenced	Sep 2021	100%	5%
	HV customer works complete		45%	10%
Testing/Commissioning	REFCL testing/commissioning commenced		0%	5%
	REFCL commissioned and operable		0%	5%
Close-out	REFCL at “required capacity”		0%	10%
Total Weighted Percentage Complete			63.25%	100%

Notes:

The above table reflects the status of JEN’s REFCL program for the current reporting period (1 May 21 to 30 Apr 22) noting:

1. the project scope for COO is:
 - a) Install 2 x REFCL; and
 - b) Undertake network augmentation to comply with ESV granted exemptions;

2. the project scope for the 3 x JEN feeders supplied by AusNet Services owned Kalkallo (KLO) Zone Substation is:
 - a) Supply the predominantly overhead feeder (KLO22) from COO; and
 - b) Undertake network augmentation for other feeders to comply with ESV granted exemptions;

3. JEN has two HV customer supply points that have REFCL based supplies:
 - a) Metro Trains Melbourne (MTM) Roxburgh Park traction supply; and
 - b) Holcim Quarry at Oaklands Junction

JEN has engaged both customers regarding these supply connections and works are underway.

2.1.2 ELCA Program Status [S120 P (1) a(ii)]

Total HV Electric Line Volumes	At 1 May 2021	At 30 April 2022	Progress over Reporting Period
Bare Construction in ELCA	Route Km	Route Km	Route Km
Polyphase	0.0	0.0	0.0
SWER	0.0	0.0	0.0
Covered or Underground Construction in ELCA	Route Km	Route Km	Route Km
Polyphase	0.0	0.0	0.0
SWER	0.0	0.0	0.0

Note: There are no areas mandated as ELCA in the JEN distribution area. Therefore as defined by legislation, JEN is fully compliant with this bushfire mitigation obligation/duty.

2.1.3 SWER ACR Program [S120 P (1) a(iii)]

ACR Name	Feeder	Completion Date
Not Applicable	Not Applicable	Not Applicable

Note: JEN does not own or operate any SWER lines. Therefore as defined by legislation, JEN is fully compliant with this bushfire mitigation obligation/duty.

2.2.1 REFCL Program Status [S120 P (1) c(i)] (as at 30 April 2023)

JEN REFCL Project Activities		Date Completed	Percentage Completed	Weightings (indicative only)
Initiate	Business Case commenced	Feb 2021	100%	5%
	Business Case approval	Jun 2021	100%	5%
Design	Design commenced	Jan 2021	100%	5%
	Design complete	Jul 2022	100%	5%
Procurement	No. of REFCL units required		Two (2)	
	REFCL order placed	Aug 2021	100%	5%
	REFCL delivered to site	Jul 2022	100%	10%
Construction-Lines	Line works commenced	Sep 2021	100%	5%
	Line works completed	Feb 2023	100%	10%
Construction-Stations	Station works commenced	Aug 2021	100%	5%
	Station works complete	Sep 2022	100%	10%
Construction-Third Party	No. of affected HV Customer Connections		Two (2)	
	HV customer works commenced	Jul 2021	100%	5%
	HV customer works complete		90%	10%
Testing/Commissioning	REFCL testing/commissioning commenced	Sep 2022	100%	5%
	REFCL commissioned and operable	Dec 2022	100%	5%
Close-out	REFCL at “required capacity”	Mar 2023	100%	10%
Total Weighted Percentage Complete			99.0%	100%

Notes:

The above table reflects the status of JEN’s REFCL program for the reporting period (1 May 22 to 30 Apr 23) and includes

- a) completion of design and procurement activities;
- b) completion of works at COO including REFCL installation

- c) completion of distribution works.
- d) Works undertaken by HV customer (MTM) for Roxburgh Park traction substation scheduled for completion in November 2023. A temporary non-REFCL supply solution to be implemented by JEN in August 2022 to eliminate risk of damage to customer's infrastructure during REFCL operations. Upon commissioning of upgraded customer infrastructure, supply to Roxburgh Park traction substation will revert back to COO.
- e) REFCL commissioning to take place
- f) Line works to offload KLO22 feeder scheduled for completion in February 2023. This is not expected to delay the REFCL commissioning process.

2.2.2 ELCA Program Status [S120 P (1) c(ii)]

Total HV Electric Line Volumes	At 1 May 2022	At 30 April 2023	Progress over Reporting Period
Bare Construction in ELCA	Route Km	Route Km	Route Km
Polyphase	0.0	0.0	0.0
SWER	0.0	0.0	0.0
Covered or Underground Construction in ELCA	Route Km	Route Km	Route Km
Polyphase	0.0	0.0	0.0
SWER	0.0	0.0	0.0

Note: There are no areas mandated as ELCA in the JEN distribution area. Therefore as defined by legislation, JEN is fully compliant with this bushfire mitigation obligation/duty.

2.2.3 SWER ACR Program [S120 P (1) c(iii)]

ACR Name	Feeder	Completion Date
Not Applicable	Not Applicable	Not Applicable

Note: JEN does not own or operate any SWER lines. Therefore as defined by legislation, JEN is fully compliant with this bushfire mitigation obligation/duty.

Board Approval

The Jemena Board approves the Annual Compliance Report in accordance with section 120P(1)(e) of the Electricity Safety Act 1988.

FOR AND BEHALF OF THE JEMENA ELECTRICITY NETWORKS (VIC) LIMITED:

date & time 22 July 2022

sign here ► 

Managing Director

print name **FRANK TUDOR**
