



# Jemena Electricity Networks (Vic) Ltd

## 2021 Compliance Report

Legislated Bushfire Mitigation Programs

As at 30 April 2021



## 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 Aug 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 Reports

### 2.1.1 REFCL Program Status [S120 P (1) a(i)] (as at 30 April 2021)

| JEN REFCL Project Activities       |   | Date Completed | Percentage Completed | Weightings (indicative only) |
|------------------------------------|---|----------------|----------------------|------------------------------|
| Initiate                           | Business Case commenced                 | Feb 2021       | 100%                 | 5%                           |
|                                    | Business Case approval                  |                | 50%                  | 5%                           |
| Design                             | Design commenced                        | Jan 2021       | 100%                 | 5%                           |
|                                    | Design complete                         |                | 50%                  | 5%                           |
| Procurement                        | No. of REFCL units required             |                | Two (2)              |                              |
|                                    | REFCL order placed                      |                | 0%                   | 5%                           |
|                                    | REFCL delivered to site                 |                | 0%                   | 10%                          |
| Construction-Lines                 | Line works commenced                    |                | 0%                   | 5%                           |
|                                    | Line works completed                    |                | 0%                   | 10%                          |
| Construction-Stations              | Station works commenced                 |                | 0%                   | 5%                           |
|                                    | Station works complete                  |                | 0%                   | 10%                          |
| Construction-Third Party           | No. of affected HV Customer Connections |                | Two (2)              |                              |
|                                    | HV customer works commenced             |                | 50%                  | 5%                           |
|                                    | HV customer works complete              |                | 0%                   | 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 |   |                | 17.5%                | 100%                         |

**Notes:**

The above table reflects the status of JEN's REFCL program for the current reporting period (1 May 20 to 30 Apr 21) 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; and
  
3. JEN has two HV customer supply points that have REFCL based supplies:
  - a) Metro Trains Melbourne (MTM's) Roxburgh Park traction supply; and
  - b) Holcim Quarry at Oaklands Junction.

JEN has engaged with both customers regarding these supply connections.

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

| Total HV Electric Line Volumes                     | At 1 May 2020   | At 30 April 2021 | Progress over Reporting Period |
|--|-----------------|------------------|--------------------------------|
| <b>Bare Construction in ELCA</b>                   | <b>Route Km</b> | <b>Route Km</b>  | <b>Route Km</b>                |
| <b>Polyphase</b>                                   | 0.0             | 0.0              | 0.0                            |
| <b>SWER</b>  | 0.0             | 0.0              | 0.0                            |
| <b>Covered or Underground Construction in ELCA</b> | <b>Route Km</b> | <b>Route Km</b>  | <b>Route Km</b>                |
| <b>Polyphase</b>                                   | 0.0             | 0.0              | 0.0                            |
| <b>SWER</b>  | 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 2022)

| JEN REFCL Project Activities              |   | Date Completed | Percentage Completed | Weightings (indicative only) |
|---|---|----------------|----------------------|------------------------------|
| Initiate                                  | Business Case commenced                 | May 2021       | 100%                 | 5%                           |
|   | Business Case approval                  | June 2021      | 100%                 | 5%                           |
| Design                                    | Design commenced                        | Jan 2021       | 100%                 | 5%                           |
|   | Design complete                         | Aug 2021       | 100%                 | 5%                           |
| Procurement                               | No. of REFCL units required             |                | Two (2)              |                              |
|   | REFCL order placed                      | June 2021      | 100%                 | 5%                           |
|   | REFCL delivered to site                 | Dec 2021       | 100%                 | 10%                          |
| Construction-Lines                        | Line works commenced                    | Aug 2021       | 100%                 | 5%                           |
|   | Line works completed                    |                | 90%                  | 10%                          |
| Construction-Stations                     | Station works commenced                 | Aug 2021       | 100%                 | 5%                           |
|   | Station works complete                  |                | 90%                  | 10%                          |
| Construction-Third Party                  | No. of affected HV Customer Connections |                | Two (2)              |                              |
|   | HV customer works commenced             | Jul 2021       | 100%                 | 5%                           |
|   | HV customer works complete              |                | 80%                  | 10%                          |
| Testing/Commissioning                     | REFCL testing/commissioning commenced   |                | 0%                   | 5%                           |
|   | REFCL commissioned and operable         |                | 0%                   | 5%                           |
| Close-out                                 | REFCL at “required capacity”            |                | 0%                   | 10%                          |
| <b>Total Weighted Percentage Complete</b> |   |                | <b>76.0%</b>         | <b>100%</b>                  |

### Notes:

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

- project funding is secured;
- completion of design and procurement activities;
- 90% completion construction works at COO including REFCL installation work; and
- 90% completion of distribution works.

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

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

### 3. 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:**

30 June 11.32am AEST

Managing Director

**FRANK TUDOR**