Electricity Safety Amendment (Bushfire Mitigation Civil Penalties Scheme) Bill 2017

Powercor S120P Annual Compliance Report

As at 30th April 2021

Document Information

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Approval

Role	Name	Title	Date
Author	Dene Ward	Network Risk & Assurance Manager	12 May 2021
Endorsed	Mark Clarke	General Manager Electricity Networks	14 May 2021
Approved	Tim Rourke	Chief Executive Officer Powercor Australia Limited	

Contents

Version History

Revision	Date	Comment
1.0	13 May 2021	Submission to CEO for approval
2.1	10 September 2021	Updates in response to ESV review. Sect 1.2 Trial HVCC projects and LEGL references amended. Sect 2.1 Forecast % completed.

1 Works carried out during the reporting period

This section provides details of works carried out during the reporting period (1 May 2020 to 30 April 2021).

1.1 REFCL program status [S120P(1)(a)(i)]

1.1.1 Ballarat North (BAN)

BAN REFCL Project Activities		Completion Date	Percentage Complete	Weighting
Initiate	Business Case commenced	11/09/2017	100%	5%
	Business Case approval	27/10/2017		
Design	Design commenced	1/12/2018	100%	20%
	Design complete	16/05/2019		
Procurement	Number of REFCL units required	3		
	REFCL order placed	1/10/2018	100%	15%
	REFCL delivered to site	17/05/2019		
Construction - Lines	Line works commenced	1/03/2019	100%	25%
	Line works complete	20/03/2020		
Construction - Stations	Station works commenced	1/07/2019	100%	15%
	Station works complete	20/03/2020		
Construction - Third Party	Number of affected HV Customer Connections	9*		
	HV customer works commenced		N/A	N/A
	HV customer works complete			
Testing / Commissioning	REFCL testing / commissioning commenced	31/03/2020	100%	10%
	REFCL commissioned and operable	13/11/2020		
Close Out	REFCL at "required capacity"	10/12/2020	100%	10%
Total weighted percentage complete			100%	

This zone substation is located at -37.53477699, 143.84742737 (latitude, longitude)

*Being a Tranche 2 site, HV customers are to ensure their assets are REFCL ready

1.1.2 Charlton (CTN)

CTN REFCL Project Activities		Completion Date	Percentage Complete	Weighting
Initiate	Business Case commenced	11/09/2017	100%	5%
	Business Case approval	27/10/2017		
Design	Design commenced	2/10/2018	100%	20%
	Design complete	19/12/2018		
Procurement	Number of REFCL units required	1		
	REFCL order placed	1/10/2018	100%	15%
	REFCL delivered to site	15/05/2019		
Construction - Lines	Line works commenced	1/02/2019	100%	25%
	Line works complete	30/06/2019		
Construction - Stations	Station works commenced	31/01/2019	100%	15%
	Station works complete	17/11/2019		
Construction - Third Party	Number of affected HV Customer Connections	4*		
	HV customer works commenced		N/A	N/A
	HV customer works complete			
Testing / Commissioning	REFCL testing / commissioning commenced	11/11/2019	100%	10%
	REFCL commissioned and operable	15/11/2019		
Close Out	REFCL at "required capacity"	18/03/2020	100%	10%
Total weighted percentage complete			100%	

This zone substation is located at -36.27399871, 143.36318135 (latitude, longitude)

*Being a Tranche 2 site, HV customers are to ensure their assets are REFCL ready

1.1.3 Ballarat South (BAS)

BAS REFCL Project Activities		Completion Date	Percentage Complete	Weighting
Initiate	Business Case commenced	11/09/2017	100%	5%
	Business Case approval	27/10/2017		
Design	Design commenced	1/06/2019	100%	20%
	Design complete	31/01/2020		
Procurement	Number of REFCL units required	3		
	REFCL order placed	1/10/2018	100%	15%
	REFCL delivered to site	24/07/2020		
Construction - Lines	Line works commenced	2/01/2020	100%	25%
	Line works complete			
Construction - Stations	Station works commenced	17/03/2020	100%	15%
	Station works complete	24/07/2020		
Construction - Third Party	Number of affected HV Customer Connections	5*		
	HV customer works commenced		N/A	N/A
	HV customer works complete	11/10/2020		
Testing / Commissioning	REFCL testing / commissioning commenced	31/08/2020	100%	10%
	REFCL commissioned and operable	23/10/2020		
Close Out	REFCL at "required capacity"	27/11/2020	100%	10%
Total weighted percentage complete			100%	

This zone substation is located at -37.57505901, 143.82751465 (latitude, longitude)
*Being a Tranche 2 site, HV customers are to ensure their assets are REFCL ready

1.1.4 Bendigo Terminal Station (BETS)

BETS REFCL Project Activities		Completion Date	Percentage Complete	Weighting
Initiate	Business Case commenced	11/09/2017	100%	5%
	Business Case approval	27/10/2017		
Design	Design commenced	1/10/2019	100%	20%
	Design complete	31/03/2020		
Procurement	Number of REFCL units required	2		
	REFCL order placed	1/10/2018	100%	15%
	REFCL delivered to site	24/07/2020		
Construction - Lines	Line works commenced	1/03/2020	100%	25%
	Line works complete	27/11/2020		
Construction - Stations	Station works commenced	1/04/2020	100%	15%
	Station works complete	10/11/2020		
Construction - Third Party	Number of affected HV Customer Connections	4*		
	HV customer works commenced		N/A	N/A
	HV customer works complete	23/10/2020		
Testing / Commissioning	REFCL testing / commissioning commenced	27/10/2020	100%	10%
	REFCL commissioned and operable	13/11/2020		
Close Out	REFCL at "required capacity"	02/12/2020	100%	10%
Total weighted percentage complete			100%	

This zone substation is located at -36.78490276, 144.25368547 (latitude, longitude)
*Being a Tranche 2 site, HV customers are to ensure their assets are REFCL ready

1.1.5 Bendigo (BGO)

BGO REFCL Project Activities		Completion Date	Percentage Complete	Weighting
Initiate	Business Case commenced	11/09/2017	100%	5%
	Business Case approval	27/10/2017		
Design	Design commenced	1/06/2019	100%	20%
	Design complete	15/11/2019		
Procurement	Number of REFCL units required	2		
	REFCL order placed	1/10/2018	100%	15%
	REFCL delivered to site	15/09/2019		
Construction - Lines	Line works commenced	1/07/2019	100%	25%
	Line works complete	15/06/2020		
Construction - Stations	Station works commenced	18/11/2019	100%	15%
	Station works complete	15/06/2020		
Construction - Third Party	Number of affected HV Customer Connections	2*		
	HV customer works commenced		N/A	N/A
	HV customer works complete	15/06/2020		
Testing / Commissioning	REFCL testing / commissioning commenced	16/06/2020	100%	10%
	REFCL commissioned and operable	03/07/2020		
Close Out	REFCL at "required capacity"	05/11/2020	0%	10%
Total weighted percentage complete			100%	

This zone substation is located at -36.77055176, 144.27696705 (latitude, longitude)
*Being a Tranche 2 site, HV customers are to ensure their assets are REFCL ready

1.1.6 Colac (CLC)

CLC REFCL Project Activities		Forecast Date	Percentage Complete	Weighting
Initiate	Business Case commenced	1/05/2016	100%	5%
	Business Case approval	13/07/2016		
Design	Design commenced	7/11/2016	100%	15%
	Design complete	17/10/2018		
Procurement	Number of REFCL units required	2		
	REFCL order placed	24/03/2017	100%	10%
	REFCL delivered to site	3/07/2018		
Construction - Lines	Line works commenced	12/04/2017	100%	20%
	Line works complete	15/02/2019		
Construction - Stations	Station works commenced	15/09/2018	100%	15%
	Station works complete	15/02/2019		
Construction - Third Party	Number of affected HV Customer Connections	6*		
	HV customer works commenced	15/10/2019	100%	20%
	HV customer works complete	31/01/2019		
Testing / Commissioning	REFCL testing / commissioning commenced	31/03/2019	100%	10%
	REFCL commissioned and operable	31/03/2019		
Close Out	REFCL at "required capacity"	21/05/2020	100%	5%
Total weighted percentage complete			100%	

This zone substation is located at -38.34056225, 143.60615730 (latitude, longitude)
*Being a Tranche 2 site, HV customers are to ensure their assets are REFCL ready

1.1.7 Geelong (GL) – exemption request submitted in relation to the establishment of Gheringhap ZSS. No works to take place at GL

GL REFCL Project Activities		Completion Date	Percentage Complete	Weighting
Initiate	Business Case commenced	11/09/2017	100%	5%
	Business Case approval	27/10/2017		
Design	Design commenced		0%	20%
	Design complete			
Procurement	Number of REFCL units required	2		
	REFCL order placed		0%	15%
	REFCL delivered to site			
Construction - Lines	Line works commenced		0%	25%
	Line works complete			
Construction - Stations	Station works commenced		0%	15%
	Station works complete			
Construction - Third Party	Number of affected HV Customer Connections	1*		
	HV customer works commenced		N/A	N/A
	HV customer works complete			
Testing / Commissioning	REFCL testing / commissioning commenced		0%	10%
	REFCL commissioned and operable			
Close Out	REFCL at "required capacity"		0%	10%
Total weighted percentage complete			5%	

This zone substation is located at -38.12868286, 144.34043884 (latitude, longitude)
*Being a Tranche 3 site, HV customers are to ensure their assets are REFCL ready

1.1.8 Corio (CRO) – exemption request submitted in relation to the establishment of Gheringhap ZSS. No works to take place at CRO

CRO REFCL Project Activities		Forecast Date	Percentage Complete	Weighting
Initiate	Business Case commenced		0%	5%
	Business Case approval			
Design	Design commenced		0%	20%
	Design complete			
Procurement	Number of REFCL units required	2		
	REFCL order placed		0%	15%
	REFCL delivered to site			
Construction - Lines	Line works commenced		0%	25%
	Line works complete			
Construction - Stations	Station works commenced		0%	15%
	Station works complete			
Construction - Third Party	Number of affected HV Customer Connections	N/A*		
	HV customer works commenced		N/A	N/A
	HV customer works complete			
Testing / Commissioning	REFCL testing / commissioning commenced		0%	10%
	REFCL commissioned and operable			
Close Out	REFCL at "required capacity"		0%	10%
Total weighted percentage complete			0%	

This zone substation is located at -38.094372, 144.369660 (latitude, longitude)
*Being a Tranche 3 site, HV customers are to ensure their assets are REFCL ready

1.1.9 Ararat (ART)

ART REFCL Project Activities		Completion Date	Percentage Complete	Weighting
Initiate	Business Case commenced	1/05/2018	100%	5%
	Business Case approval	15/06/2019		
Design	Design commenced	25/03/19	100%	20%
	Design complete	5/07/2019		
Procurement	Number of REFCL units required	2		
	REFCL order placed	1/10/2018	100%	15%
	REFCL delivered to site	15/05/2019		
Construction - Lines	Line works commenced	1/08/2019	100%	25%
	Line works complete	16/12/2019		
Construction - Stations	Station works commenced	1/07/2019	100%	15%
	Station works complete	22/11/2019		
Construction - Third Party	Number of affected HV Customer Connections	2*		
	HV customer works commenced		N/A	N/A
	HV customer works complete			
Testing / Commissioning	REFCL testing / commissioning commenced	2/12/2019	100%	10%
	REFCL commissioned and operable	16/12/2019		
Close Out	REFCL at "required capacity"	27/03/2020	100%	10%
Total weighted percentage complete			100%	

This zone substation is located at -37.26880637, 142.92448997 (latitude, longitude)
*Being a Tranche 2 site, HV customers are to ensure their assets are REFCL ready

1.1.10 Terang (TRG)

TRG REFCL Project Activities		Completion Date	Percentage Complete	Weighting
Initiate	Business Case commenced	1/05/2018	100%	5%
	Business Case approval	13/12/2019		
Design	Design commenced	1/06/2019	100%	20%
	Design complete	30/06/2020		
Procurement	Number of REFCL units required	2		
	REFCL order placed	1/10/2018	100%	15%
	REFCL delivered to site	13/09/2019		
Construction - Lines	Line works commenced	1/04/2020	100%	25%
	Line works complete	30/11/2020		
Construction - Stations	Station works commenced	17/02/2020	100%	15%
	Station works complete	15/02/2021		
Construction - Third Party	Number of affected HV Customer Connections	2*		
	HV customer works commenced	02/11/2020	N/A	N/A
	HV customer works complete	22/02/2021		
Testing / Commissioning	REFCL testing / commissioning commenced	01/03/2021	100%	10%
	REFCL commissioned and operable	17/03/2021		
Close Out	REFCL at "required capacity"	17/03/2020	100%	10%
Total weighted percentage complete			100%	

This zone substation is located at -38.23764080, 142.92971224 (latitude, longitude)
*Being a Tranche 2 site, HV customers are to ensure their assets are REFCL ready

1.1.11 Hamilton (HTN)

HTN REFCL Project Activities		Forecast Date	Percentage Complete	Weighting
Initiate	Business Case commenced	1/06/2019	100%	5%
	Business Case approval	15/12/2019		
Design	Design commenced	2/02/2020	90%	20%
	Design complete	30/06/2021		
Procurement	Number of REFCL units required	2		
	REFCL order placed	7/05/2020	100%	15%
	REFCL delivered to site	3/11/2020		
Construction - Lines	Line works commenced	1/02/2021	25%	25%
	Line works complete	30/08/2021		
Construction - Stations	Station works commenced	1/08/2021	0%	15%
	Station works complete	31/03/2022		
Construction - Third Party	Number of affected HV Customer Connections	1*		
	HV customer works commenced		N/A	N/A
	HV customer works complete			
Testing / Commissioning	REFCL testing / commissioning commenced	31/03/2022	0%	10%
	REFCL commissioned and operable	30/04/2022		
Close Out	REFCL at "required capacity"	30/04/2022	0%	10%
Total weighted percentage complete			38%	

This zone substation is located at -37.754681, 142.008833 (latitude, longitude)
*Being a Tranche 3 site, HV customers are to ensure their assets are REFCL ready

1.1.12 Koroit (KRT)

KRT REFCL Project Activities		Forecast Date	Percentage Complete	Weighting
Initiate	Business Case commenced	1/06/2019	100%	5%
	Business Case approval	11/12/2019		
Design	Design commenced	1/04/2020	100%	20%
	Design complete	15/07/2020		
Procurement	Number of REFCL units required	1		
	REFCL order placed	20/05/2020	100%	15%
	REFCL delivered to site	15/11/2020		
Construction - Lines	Line works commenced	01/07/2020	100%	25%
	Line works complete	30/11/2020		
Construction - Stations	Station works commenced	01/07/2020	100%	15%
	Station works complete	30/11/2020		
Construction - Third Party	Number of affected HV Customer Connections	1*		
	HV customer works commenced		N/A	N/A
	HV customer works complete	12/02/2021		
Testing / Commissioning	REFCL testing / commissioning commenced	01/02/2021	100%	10%
	REFCL commissioned and operable	16/02/2021		
Close Out	REFCL at "required capacity"	16/02/2021	100%	10%
Total weighted percentage complete			100%	

This zone substation is located at -38.315227, 142.430583 (latitude, longitude)
*Being a Tranche 3 site, HV customers are to ensure their assets are REFCL ready

1.1.13 Merbein (MBN)

MBN REFCL Project Activities		Forecast Date	Percentage Complete	Weighting
Initiate	Business Case commenced	1/06/2019	100%	5%
	Business Case approval	11/12/2019		
Design	Design commenced	1/06/2020	50%	20%
	Design complete	31/12/2021		
Procurement	Number of REFCL units required	1		
	REFCL order placed	1/05/2020	100%	15%
	REFCL delivered to site	5/04/2021		
Construction - Lines	Line works commenced	19/04/2021	20%	25%
	Line works complete	25/08/2021		
Construction - Stations	Station works commenced	13/04/2021	10%	15%
	Station works complete	25/08/2021		
Construction - Third Party	Number of affected HV Customer Connections	2*		
	HV customer works commenced		N/A	N/A
	HV customer works complete			
Testing / Commissioning	REFCL testing / commissioning commenced	26/08/2021	0%	10%
	REFCL commissioned and operable	1/10/2021		
Close Out	REFCL at "required capacity"	1/10/2021	0%	10%
Total weighted percentage complete			41%	

This zone substation is located at -34.174709, 142.079499 (latitude, longitude)
*Being a Tranche 3 site, HV customers are to ensure their assets are REFCL ready

1.1.14 Stawell (STL)

STL REFCL Project Activities		Forecast Date	Percentage Complete	Weighting
Initiate	Business Case commenced	1/06/2019	100%	5%
	Business Case approval	11/12/2019		
Design	Design commenced	01/06/2020	100%	20%
	Design complete	24/12/2020		
Procurement	Number of REFCL units required	1		
	REFCL order placed	20/05/2020	80%	15%
	REFCL delivered to site	01/03/2021		
Construction - Lines	Line works commenced	15/03/2021	30%	25%
	Line works complete			
Construction - Stations	Station works commenced	12/02/2021	50%	15%
	Station works complete			
Construction - Third Party	Number of affected HV Customer Connections	2*		
	HV customer works commenced		N/A	N/A
	HV customer works complete			
Testing / Commissioning	REFCL testing / commissioning commenced		0%	10%
	REFCL commissioned and operable			
Close Out	REFCL at "required capacity"		0%	10%
Total weighted percentage complete			52%	

This zone substation is located at -37.059176, 142.752446 (latitude, longitude)
*Being a Tranche 3 site, HV customers are to ensure their assets are REFCL ready

1.1.15 Waurn Ponds (WPD)

WPD REFCL Project Activities		Forecast Date	Percentage Complete	Weighting
Initiate	Business Case commenced	1/06/2019	100%	5%
	Business Case approval	09/09/2020		
Design	Design commenced	15/03/2021	10%	20%
	Design complete			
Procurement	Number of REFCL units required	3		
	REFCL order placed		5%	15%
	REFCL delivered to site			
Construction - Lines	Line works commenced		0%	25%
	Line works complete			
Construction - Stations	Station works commenced		0%	15%
	Station works complete			
Construction - Third Party	Number of affected HV Customer Connections	3*		
	HV customer works commenced		N/A	N/A
	HV customer works complete			
Testing / Commissioning	REFCL testing / commissioning commenced		0%	10%
	REFCL commissioned and operable			
Close Out	REFCL at "required capacity"		0%	10%
Total weighted percentage complete			8%	

This zone substation is located at -38.215601, 144.300452 (latitude, longitude)
*Being a Tranche 3 site, HV customers are to ensure their assets are REFCL ready

1.2 ELCA program status [S120P(1)(a)(ii)]

Total HV Electric Line Volumes	At 1 May 2020	At 30 April 2021	Progress over Reporting Period
Bare conductor in ELCA	Route km	Route km	Route km
Polyphase	952.2	917.8	-34.1
SWER	441.4	372.1	-69.3
Covered or underground conductor in ELCA	Route km	Route km	Route km
Polyphase	144.0	174.9	41.3
SWER	280.4	315.5	80.6

As at 30 April 2021, the percentage of total route kilometres of all bare conductors remaining in Electric Line Construction Areas is 72%.
The table below shows details of Electric Line Construction Area works completed during the reporting period (1 May 2020 to 30 April 2021).

Electric Line Construction Area	Feeder	Reason / Driver	Previous Construction			New Construction			Completion Date
			Construction	Phasing	Length (Route km)	Construction	Phasing	Length (Route km)	
LEGL./16-202	CLC003	Decommissioned	Bare Conductor	SWER	2.7	n/a	n/a	0.0	4/07/2020
LEGL./16-214	BET004	Proactive replacement/dire	Bare Conductor	SWER	1.6	Underground Cable	SWER	1.7	1/05/2020
LEGL./16-214	BET006	Proactive replacement/dire	Bare Conductor	SWER	5.3	Underground Cable	SWER	5.7	4/07/2020
LEGL./16-230	WPD014	Proactive replacement/dire	Bare Conductor	Single Phase	4.7	Underground Cable	Polyphase	5.1	4/07/2020
LEGL./16-230	WPD014	Proactive replacement/dire	Bare Conductor	Single Phase	3.5	Underground Cable	Polyphase	5.5	6/08/2020
LEGL./16-230	WPD014	Proactive replacement/dire	Bare Conductor	Single Phase	4.1	Underground Cable	Polyphase	5.7	17/12/2020
LEGL./16-230	WPD014	Proactive replacement/dire	Bare Conductor	Single Phase	9.1	Underground Cable	Polyphase	9.8	19/02/2021
LEGL./16-230	WIN022	Proactive replacement/dire	Bare Conductor	Polyphase	6.4	Underground Cable	Polyphase	7.2	1/07/2020
LEGL./16-230	WIN022	Proactive replacement/dire	Bare Conductor	Single Phase	6.3	Underground Cable	Polyphase	8.0	25/05/2020
LEGL./16-230	WIN022	Proactive replacement/dire	Bare Conductor	SWER	17.3	Covered	SWER	18.1	22/04/2021
LEGL./16-214	EHK024	Proactive replacement/dire	Bare Conductor	SWER	15.0	Underground Cable	SWER	27.7	20/08/2020
LEGL./16-214	EHK024	Proactive replacement/dire	Bare Conductor	SWER	19.2	Covered	SWER	19.2	18/04/2021
LEGL./16-214	EHK024	Proactive replacement/dire	Bare Conductor	SWER	8.2	Covered	SWER	8.2	17/12/2020

1.3 SWER ACR program status [S120P(1)(a)(iii)]

Over the reporting period Powercor has installed 5 Automatic Circuit Reclosers (ACR) in relation to Single Wire Earth Return (SWER) lines. Details are provided in the following table.

ACR NAME	FEEDER	COMPLETION DATE
HESKET RD TIE P78 SWER ACR FS	WND012	23/08/2020
PULLUT P3 SWER ACR FS	NHL015	22/10/2020
LOELIGER P1 SWER ACR	STL006	29/10/2020
CONALL P1A SWER ACR	STL007	28/10/2020
PIPETRACK P4 SWER ACR	STL007	27/10/2020

This concludes the SWER ACR program.

2 Plans of work to be carried out during the next reporting period

This section provides details of works planned to be carried out during the reporting period (1 May 2021 to 30 April 2022).

Percentage Complete is the forecast percentage complete as at 30 April 2021.

1.1 REFCL program status [S120P(1)(c)(i)]

1.1.1 Hamilton (HTN)

HTN REFCL Project Activities		Forecast Date	Percentage Complete	Weighting
Initiate	Business Case commenced	1/06/2019	100%	5%
	Business Case approval	15/12/2019		
Design	Design commenced	2/02/2020	100%	20%
	Design complete	30/06/2021		
Procurement	Number of REFCL units required	2		
	REFCL order placed	7/05/2020	100%	15%
	REFCL delivered to site	3/11/2020		
Construction - Lines	Line works commenced	1/02/2021	100%	25%
	Line works complete	31/07/2021		
Construction - Stations	Station works commenced	1/08/2021	100%	15%
	Station works complete	31/03/2022		
Construction - Third Party	Number of affected HV Customer Connections	1*		
	HV customer works commenced		N/A	N/A
	HV customer works complete			
Testing / Commissioning	REFCL testing / commissioning commenced	31/03/2022	100%	10%
	REFCL commissioned and operable	30/04/2022		
Close Out	REFCL at "required capacity"	30/04/2022	100%	10%
Total weighted percentage complete			100%	

This zone substation is located at -37.754681, 142.008833 (latitude, longitude)
*Being a Tranche 3 site, HV customers are to ensure their assets are REFCL ready

1.1.2 Merbein (MBN)

MBN REFCL Project Activities		Forecast Date	Percentage Complete	Weighting
Initiate	Business Case commenced	1/06/2019	100%	5%
	Business Case approval	11/12/2019		
Design	Design commenced	1/06/2020	100%	20%
	Design complete	24/12/2020		
Procurement	Number of REFCL units required	1		
	REFCL order placed	1/05/2020	100%	15%
	REFCL delivered to site	5/04/2021		
Construction - Lines	Line works commenced	19/04/2021	100%	25%
	Line works complete	25/08/2021		
Construction - Stations	Station works commenced	13/04/2021	100%	15%
	Station works complete	25/08/2021		
Construction - Third Party	Number of affected HV Customer Connections	2*		
	HV customer works commenced		N/A	N/A
	HV customer works complete			
Testing / Commissioning	REFCL testing / commissioning commenced	26/08/2021	100%	10%
	REFCL commissioned and operable	1/10/2021		
Close Out	REFCL at "required capacity"	1/10/2021	100%	10%
Total weighted percentage complete			100%	

This zone substation is located at -34.174709, 142.079499 (latitude, longitude)
*Being a Tranche 3 site, HV customers are to ensure their assets are REFCL ready

1.1.3 Stawell (STL)

STL REFCL Project Activities		Forecast Date	Percentage Complete	Weighting
Initiate	Business Case commenced	1/06/2019	100%	5%
	Business Case approval	11/12/2019		
Design	Design commenced	1/05/2020	100%	20%
	Design complete	30/11/2020		
Procurement	Number of REFCL units required	1		
	REFCL order placed	1/05/2020	100%	15%
	REFCL delivered to site	6/04/2021		
Construction - Lines	Line works commenced	1/02/2021	100%	25%
	Line works complete	30/09/2021		
Construction - Stations	Station works commenced	1/02/2021	100%	15%
	Station works complete	30/06/2021		
Construction - Third Party	Number of affected HV Customer Connections	2*		
	HV customer works commenced		N/A	N/A
	HV customer works complete			
Testing / Commissioning	REFCL testing / commissioning commenced	1/03/2022	100%	10%
	REFCL commissioned and operable	31/03/2022		
Close Out	REFCL at "required capacity"	30/04/2022	100%	10%
Total weighted percentage complete			100%	

This zone substation is located at -37.059176, 142.752446 (latitude, longitude)
*Being a Tranche 3 site, HV customers are to ensure their assets are REFCL ready

1.1.4 Waurn Ponds (WPD)

WPD REFCL Project Activities		Forecast Date	Percentage Complete	Weighting
Initiate	Business Case commenced	1/06/2019	100%	5%
	Business Case approval	9/09/2020		
Design	Design commenced	2/01/2021	100%	20%
	Design complete	15/10/2021		
Procurement	Number of REFCL units required	3		
	REFCL order placed	1/04/2021	100%	15%
	REFCL delivered to site	8/04/2022		
Construction - Lines	Line works commenced	1/08/2021	70%	25%
	Line works complete	30/08/2022		
Construction - Stations	Station works commenced	1/08/2021	70%	15%
	Station works complete	30/08/2022		
Construction - Third Party	Number of affected HV Customer Connections	3*		
	HV customer works commenced		N/A	N/A
	HV customer works complete			
Testing / Commissioning	REFCL testing / commissioning commenced	1/11/2022	0%	10%
	REFCL commissioned and operable	30/11/2022		
Close Out	REFCL at "required capacity"	15/12/2022	0%	10%
Total weighted percentage complete			68%	

This zone substation is located at -38.215601, 144.300452 (latitude, longitude)
*Being a Tranche 3 site, HV customers are to ensure their assets are REFCL ready

1.1.5 Gheringhap (GHP)

GHP REFCL Project Activities		Forecast Date	Percentage Complete	Weighting
Initiate	Business Case commenced	1/06/2019	100%	5%
	Business Case approval	9/09/2020		
Design	Design commenced	2/08/2021	100%	20%
	Design complete	19/01/2022		
Procurement	Number of REFCL units required	2		
	REFCL order placed	1/04/2021	100%	15%
	REFCL delivered to site	1/04/2022		
Construction - Lines	Line works commenced	1/06/2021	70%	25%
	Line works complete	31/8/2022		
Construction - Stations	Station works commenced	1/12/2021	70%	15%
	Station works complete	31/8/2022		
Construction - Third Party	Number of affected HV Customer Connections	0		
	HV customer works commenced		N/A	N/A
	HV customer works complete			
Testing / Commissioning	REFCL testing / commissioning commenced	28/02/2023	0%	10%
	REFCL commissioned and operable	31/03/2023		
Close Out	REFCL at "required capacity"	31/03/2023	0%	10%
Total weighted percentage complete			68%	

This zone substation is located at -38.789453, 144.67824 (latitude, longitude)

1.1.6 Torquay (TQY)

TQY REFCL Project Activities		Forecast Date	Percentage Complete	Weighting
Initiate	Business Case commenced	1/06/2019	100%	5%
	Business Case approval	9/09/2020		
Design	Design commenced	2/06/2021	100%	20%
	Design complete	10/12/2021		
Procurement	Number of REFCL units required	2		
	REFCL order placed	1/04/2021	100%	15%
	REFCL delivered to site	1/04/2022		
Construction - Lines	Line works commenced	1/06/2021	70%	25%
	Line works complete	31/8/2022		
Construction - Stations	Station works commenced	1/12/2021	70%	15%
	Station works complete	31/8/2022		
Construction - Third Party	Number of affected HV Customer Connections	0		
	HV customer works commenced		N/A	N/A
	HV customer works complete			
Testing / Commissioning	REFCL testing / commissioning commenced	1/11/2022	0%	10%
	REFCL commissioned and operable	30/11/2022		
Close Out	REFCL at "required capacity"	15/12/2022	0%	10%
Total weighted percentage complete			10%	

This zone substation is located at -38.326481, 144.401637 (latitude, longitude)

1.2 ELCA program status [S120P(1)(c)(ii)]

The table below forecasts the change in ELCA volumes during the next reporting period (1 May 2021 to 30 April 2022).

Total HV Electric Line Volumes	At 1 May 2021	At 30 April 2022	Progress over Reporting Period
Bare conductor in ELCA	Route km	Route km	Route km
Polyphase	917.8	914.7	-3.1
SWER	372.1	372.1	0
Covered or underground conductor in ELCA	Route km	Route km	Route km
Polyphase	174.9	178.0	3.1
SWER	315.5	315.5	0

By 30 April 2022, the planned percentage of total route kilometres of all bare conductors remaining in Electric Line Construction Areas is forecast to be 72%.

The table below shows details of planned Electric Line Construction Area works during the next reporting period (1 May 2021 to 30 April 2022).

Electric Line Construction Area	**Feeder**	**Reason / Driver**	**Current Construction**			**Future Construction**	
			Construction	**Phasing**	**Length (Route km)**	**Construction**	**Phasing**
LEGL./16-201	CDN002	Proactive replacement	Bare Conductor	Polyphase	3.1	Covered Conductor	Polyphase

1.3 SWER ACR program status [S120P(1)(c)(iii)]

The program is now complete.

For the next reporting period Powercor has no plans to install Automatic Circuit Reclosers (ACR) in relation to Single Wire Earth Return (SWER) lines.