

Powerline Bushfire Steering Committee

September 2017

Tom Hallam, GM Regulation and Network Strategy

Siham Knowles, GM Network Engineering



Summary

- ▶ **Woori Yallock Current Status – Out of Service**
- ▶ **Installation activities underway at**
 - › Barnawartha
 - › Rubicon A
 - › Woori Yallock (2nd GFN)
- ▶ **Program Status**
- ▶ **Program Update & Schedule**
- ▶ **Exemption Requests**

Woori Yallock Current Status

▶ Woori Yallock 1st GFN Trial Period

- › GFN operated between 2 February 2017 and 4 July 2017
- › Removed from service when the capacitance of the WYK network exceeded the current rating of the Arc Suppression Coil (no further network transfers or voltage reduction available).
- › Operated for 55 earth faults
- › 88% transient faults
- › 1 Cross country fault occurred

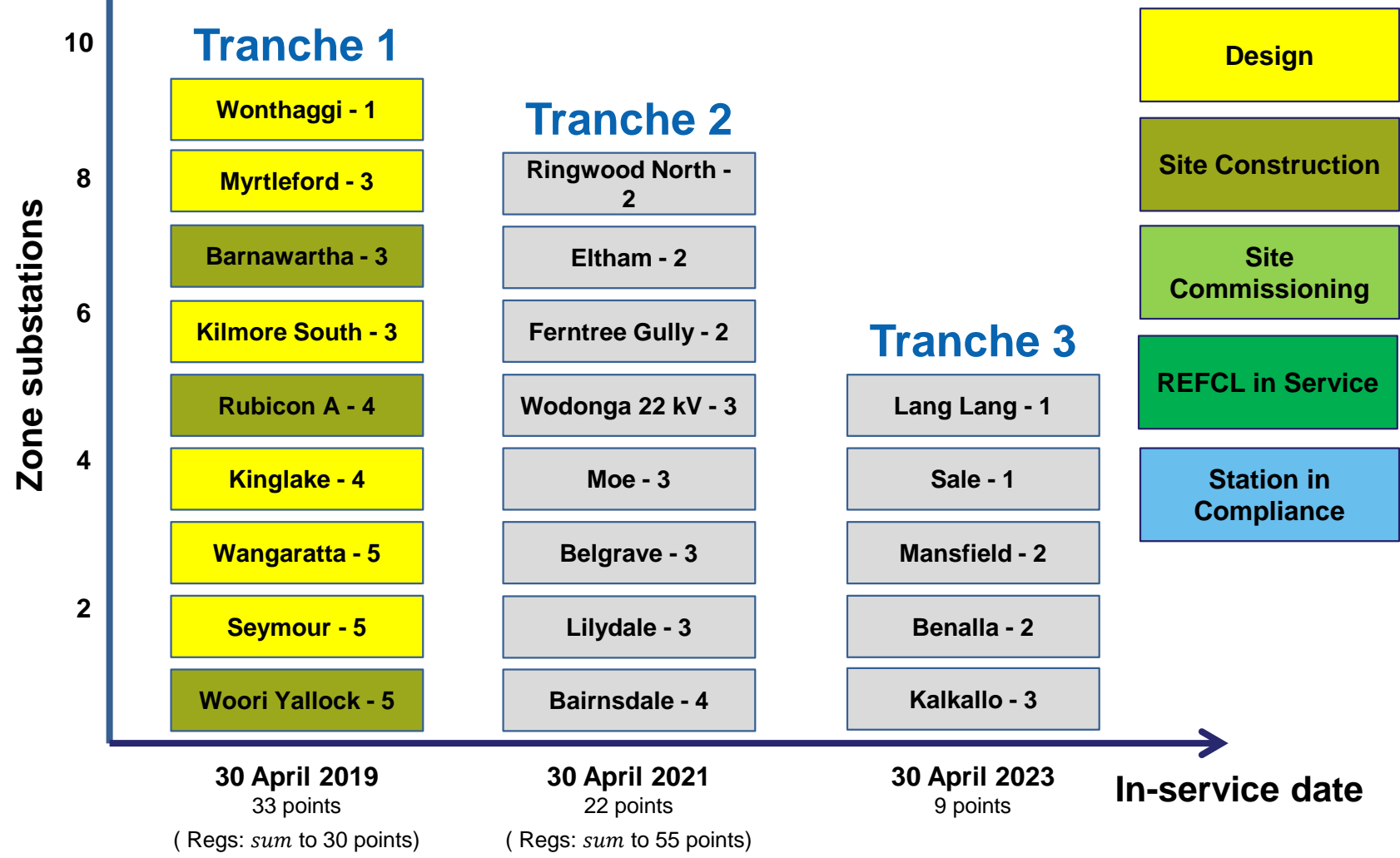
▶ Woori Yallock 2nd GFN

- › Site preparation works underway
- › GFN due on site shortly



Photos (Left to Right): Arc Suppression Coil, GFN control panels, GFN Inverter

Program Status



Program Update & Schedule

- ▶ Tranche 1 CPA submitted to the AER in March 2017
- ▶ AER Notice of decision provides funding certainty for the Tranche 1 Program
- ▶ Tranche 2 CPA preparation underway
- ▶ Tranche 1 Implementation including Network hardening, balancing activities, compatible equipment, design and station construction works ongoing

Zone Substation	Activity	Q1 '17	Q2 '17	Q3 '17	Q4 '17	Q1 '18	Q2 '18	Q3 '18	Q4 '18	Q1 '19	Q2 '19	Q3 '19
Wonthaggi	Design			█	█	█						
	Construct				█	█	█					
Myrtleford*	Design			█	█							
	Construct						█	█				
Barnawatha	Design	█										
	Construct		█	█	█							
Kilmore South	Design			█	█	█						
	Construct						█	█				
Rubicon A	Design	█										
	Construct			█	█							
Kinglake*	Design		█	█	█							
	Construct			█	█	█	█					
Wangaratta	Design			█	█	█						
	Construct					█	█	█				
Seymour*	Design			█	█	█						
	Construct							█	█			
Woori Yallock	Design		█									
	Construct			█	█							

Tranche 1 Regulation compliance Date

*Associated rebuild activities not included

Exemption Requests

On 11 August AusNet Services submitted a request that underground or overhead insulated polyphase electric lines (PELs) be exempt from the requirement to be REFCL protected, on the basis that if it is mandatory it:

- is technically impractical in many cases, and will actually reduce safety performance of the REFCL on bare conductor sections due to total capacitance limitations;
- provides little or no additional reduction in fire risk compared to underground or overhead insulated PELs, and as confirmed by the Regulatory Impact Statement;
- is not consistent with the intent of the outcomes of the Victorian Bushfire Royal Commission (VBRC); and
- does not represent prudent expenditure on behalf of Victorian customers

The Exemption request relates to proposed underground or overhead insulated cable feeders or URD estates downstream of isolating transformers in the 22 kV network supplied from Kalkallo to reduce the total capacitance of the network to within the capability limit of two GFNs.

AusNet Services is now aware that ESV prefers individual exemption applications and will submit these as required.

A future request for a time extension is likely where:

- The Vic Government High Voltage Customer Assistance Program (HCAP) identifies a HV customer who agrees to hardening works, and where this impacts a service date, or
- The installation of an isolating substation at a HV customer site impacts a service date