

# AusNet

## Planning Report – Kilmore South (KMS) Zone Substation

AMS 20-265 – Electricity Distribution Network

Friday, 31 January 2025



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# 1. Executive summary

AusNet is a regulated Victorian Distribution Network Service Provider (DNSP) that supplies electrical distribution services to more than 800,000 customers. Our electricity distribution network covers eastern rural Victoria and the fringe of the northern and eastern Melbourne metropolitan area.

As expected by our customers and required by the various regulatory instruments that we operate under, AusNet aims to maintain service levels at the lowest possible cost to our customers. To achieve this, we develop forward looking plans that aim to maximise the present value of economic benefit to all those who produce, consume and transport electricity in the National Electricity Market (NEM).

This report presents our forward-looking investment plans to manage the existing and emerging service level constraints in the Kilmore South (KMS) Zone Substation supply area to ensure that we maintain service levels to our customers over the short and long term. The report outlines how we quantify service risk, identifies and assesses the costs and benefits of potential options to mitigate the identified risks, and provides forward looking plans outlining the optimal service risk mitigation solutions, and timing of those solutions, to maintain service levels.

## 1.1. Identified Need

Kilmore South (KMS) commenced operation as a 66/22kV transformation station in 1966. The two transformers (13.5MVA and 30MVA) were installed in 1967 and 2011 respectively. The 22kV switchyard consists of five CBs installed in 2005, two feeder CBs, a cap bank CB that were installed in 1985. The 22kV switchgear is tied into an indoor switchboard. The 66kV switchyard consists of 5 CBs installed in 2011 and one installed in 2023.

The physical and electrical condition of these assets has deteriorated and they are now presenting an increasing failure risk. This is especially prevalent on the 22kV switchboard.

The key service constraints at KMS are:

- Security of supply risk presented by the switching of the two transformer,
- Security of supply risks presented by the increased likelihood of asset failure due to the deteriorating condition of the assets;
- Health and safety risks presented by a possible explosive failure of bushings on a number of the assets;
- Plant collateral damage risks presented by a possible explosive failure of a number of the assets;
- Environmental risks associated with insulating oil spill or fire;
- Reactive replacement risks presented by the increasing likelihood of asset failure due to the deteriorating condition of the assets; and
- Health and safety risks presented by asbestos containing cement sheets or electrical switch boards in the control building, store room and toilet.

## 1.2. Proposed Preferred Option

The options analysis identifies that the preferred option, being the one that maximises the net economic benefit to all those that produce, consume and transport electricity in the NEM, is to:

- Replace the 22kV switchgear by summer 2026/27, at an estimated capital cost of [CIC] million (Real \$2024).

Applying a discount rate of 5.56% per annum, this proposed preferred option has a net economic benefit of [CIC] million, relative to the Do Nothing Different option, over the forty-five-year assessment period.

## 1.3. Next Steps

This planning report outlines the service level risk mitigation investment that AusNet has assessed as prudent, efficient and providing the optimal balance of supply reliability and cost.

While this report outlines AusNet's plans for maintaining service levels, and serves to support AusNet's revenue request for the 2026-31 regulatory period, the proposed investment is subject to the regulatory investment test for distribution (RIT-D).

As such, the proposed investment will be confirmed via the formal RIT-D process, which includes publication of three reports at the various RIT-D stages, and includes a formal consultation process where interested parties can make submissions that help identify the optimal solution.

## 2. Introduction

### 2.1. Purpose

This planning report outlines asset condition, asset failure risks and network development plans relevant to KMS for the period from 2026 to 2031.

It provides an analysis of viable options to address the identified risks and maintain the efficient delivery of electrical energy from KMS consistent with the National Electricity Rules (NER) and stakeholder's requirements.

It also summarizes the scope, delivery schedule and expenditures associated with the most economical solution to emerging constraints.

### 2.2. Scope

The scope of this planning report is limited to the equipment within Kilmore South (KMS) Zone Substation.

It excludes sub-transmission and distribution feeders entering and exiting the zone substation.

### 2.3. Asset Management Objectives

The high-level asset management objectives are outlined in AMS 01-01 Asset Management System Overview.

The electricity distribution network objectives are stated in AMS 20-01 Electricity Distribution Network Asset Management Strategy.

# 3. Background

## 3.1. Substation Description

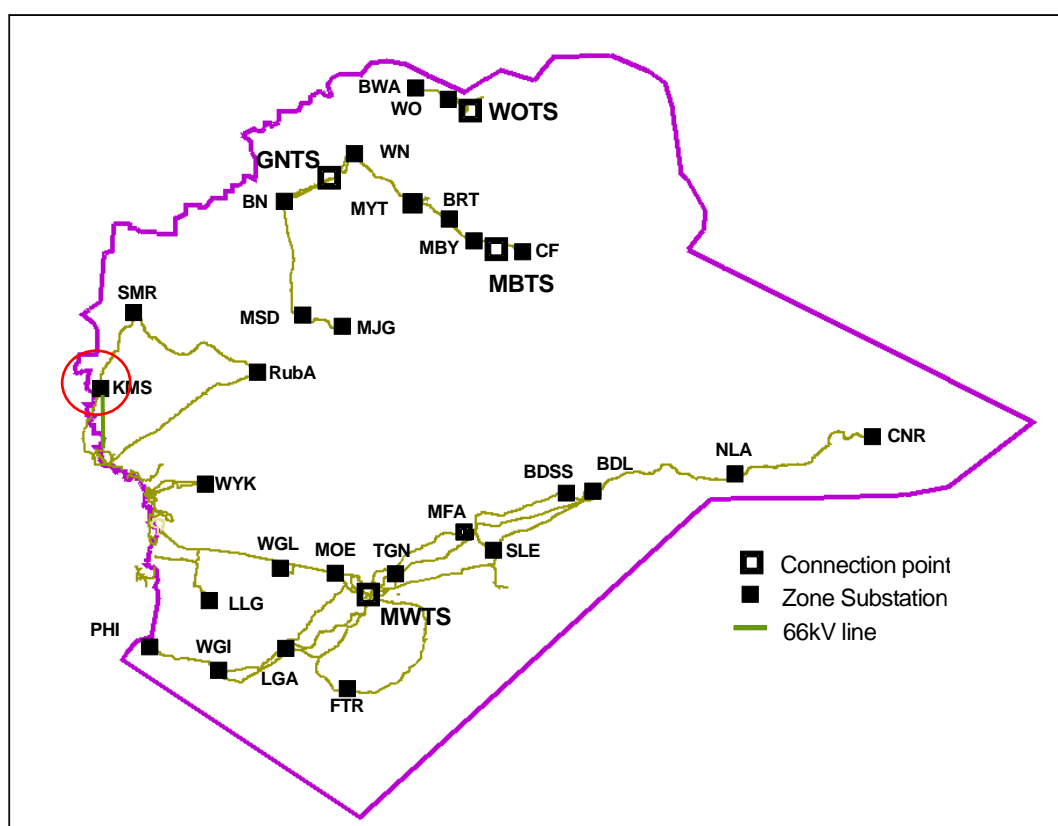
Kilmore South (KMS) is located approximately 56km north of Melbourne and is the main source of supply for \_\_\_and surrounding areas.

KMS is located at an elevation of 340m above sea level. KMS has a summer average maximum temperature of 25°C and a winter average minimum temperature of 7.1°C. Extreme temperatures reach 33.7°C in summer and 1.2°C in winter.

The mean rain fall varies from 51mm to 101mm per month within a year.

KMS supplies approximately 7005 customers in total. The load at NLA includes town and urban based residential, with some town based commercial, industrial and farming.

The location of KMS within the AusNet distribution network is shown in Figure 1.



**Figure 1: KMS location within AusNet network**

KMS is supplied via three 66kV circuits that runs from South Morang Terminal Station, Seymour Zone Substation and Kalkallo Zone Substation. The configuration of primary electrical circuits within KMS is as shown in the following single line diagram Figure 2.

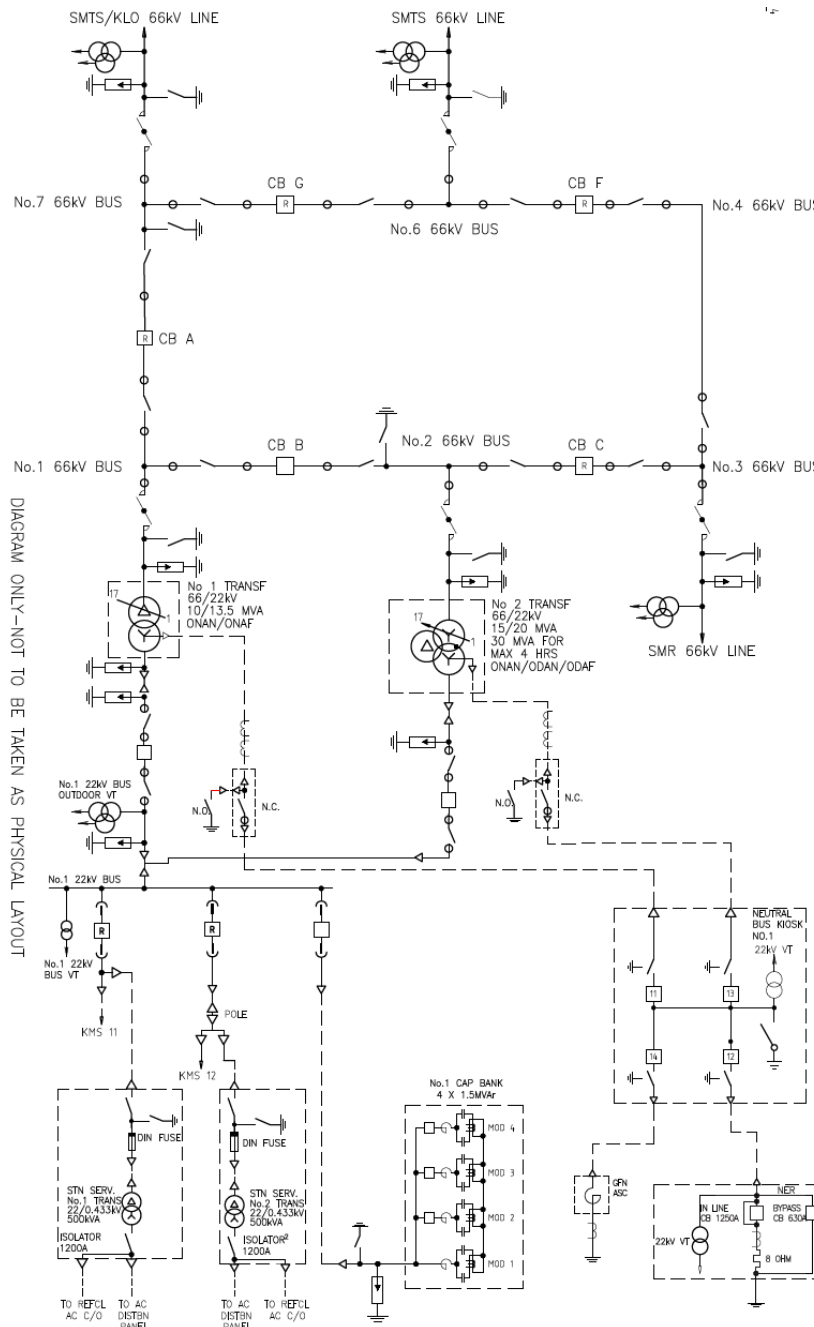


Figure 2: Single Line Diagram of KMS

## 3.2. Customer Composition

KMS has two 22kV feeders supplying AusNet' customers. Table 1 provides detail of the 22kV supply feeders.

Table 1: KMS feeder information

Feeder	Feeder Length (km)	Feeder description	Number of Customers	Number and type of customers
KMS11	118	Summer peaking, long urban feeder	2,164	91% residential 5% commercial 3% farming
KMS12	213	Summer peaking, long urban feeder	4,841	88% residential 8% commercial 1% industrial 3% farming



## 3.3. Zone Substation Equipment

### 3.3.1. Primary Equipment

NLA includes an air insulated 66kV switchyard with four busbars configured as a 66kV ring, and six 66kV circuit breakers.

The 22kV switchgear current comprises of eight vacuum circuit breakers. Three of which installed in 1985, three in 2005 and two in the late 2010's.

The 66kV circuits are switched by six gas 66kV circuit breakers, five of which were installed in 2011 and one in 2023

Transformation comprises of one 66/22kV 10/13.5MVA and one 66/22kV 20/30MVA. These two units were installed in 1967 and 2011 respectively.

### 3.3.2. Secondary Equipment

The 66kV SMR, SMTS and SMTS/KLO lines are protected by differential protection.

66kV circuit breaker "A", "G", "F", "C" has an auto reclose scheme integrated into SMR, SMTS and SMTS/KLO line protection relays.

Auto reclose function is not provided for 66kV CB "B".

Circuit breaker failure functions are provided for 66kV CBs.

The 22kV feeder circuit breakers have overcurrent, earth fault and sensitive earth fault protection using IED (Intelligent Electronic Device) relays.

The 22kV capacitor bank protection has neutral balance and capacitor control device functions using IED relays.

The transformers are protected by gas relays and IED relays with differential, overcurrent, backup earth fault and CBF.

The 22kV voltage regulating function is provided by IED relays.

22kV buses are protected by high impedance and distance protection using RADHA and Group relays.

IED relays are used for 22kV master earth fault and backup earth fault protection.

SN-GFN is used for REFCL

## 3.4. Asset Condition

AusNet maintains a risk management system designed in accordance with AS ISO 31000 Risk Management – Guidelines to ensure risks are effectively managed to provide greater certainty for the owners, employees, customers, suppliers, and the communities in which we operate.

The risk of each asset is calculated as the multiplication of probably of failure (PoF) of the asset and the consequence of failure (CoF). The risk is then extrapolated into the future accounting for forecast changes in PoF and CoF.

In the distribution network, AusNet aims to maintain risk. Risk treatments required to achieve this over time include replacement, refurbishment, and maintenance activities, and are developed based on current risk and extrapolated risk.

The overall approach to quantified asset risk management is detailed in AMS -01-09. However, Table 2 of this document show the AMS documents describing the considerations and methodologies to determine PoF, Cof, and risk treatments that are unique to assets driving ZSS rebuilds.

**Table 2: Asset AMS reference**

Asset Class	AMS Document
Transformers	AMS 20-71
Circuit Breakers	AMS 20-54

Instrument Transformers	AMS 20-63
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The PoF ranges of key assets at TT is listed in Table 3

**Table 3: Station Assets PoF**

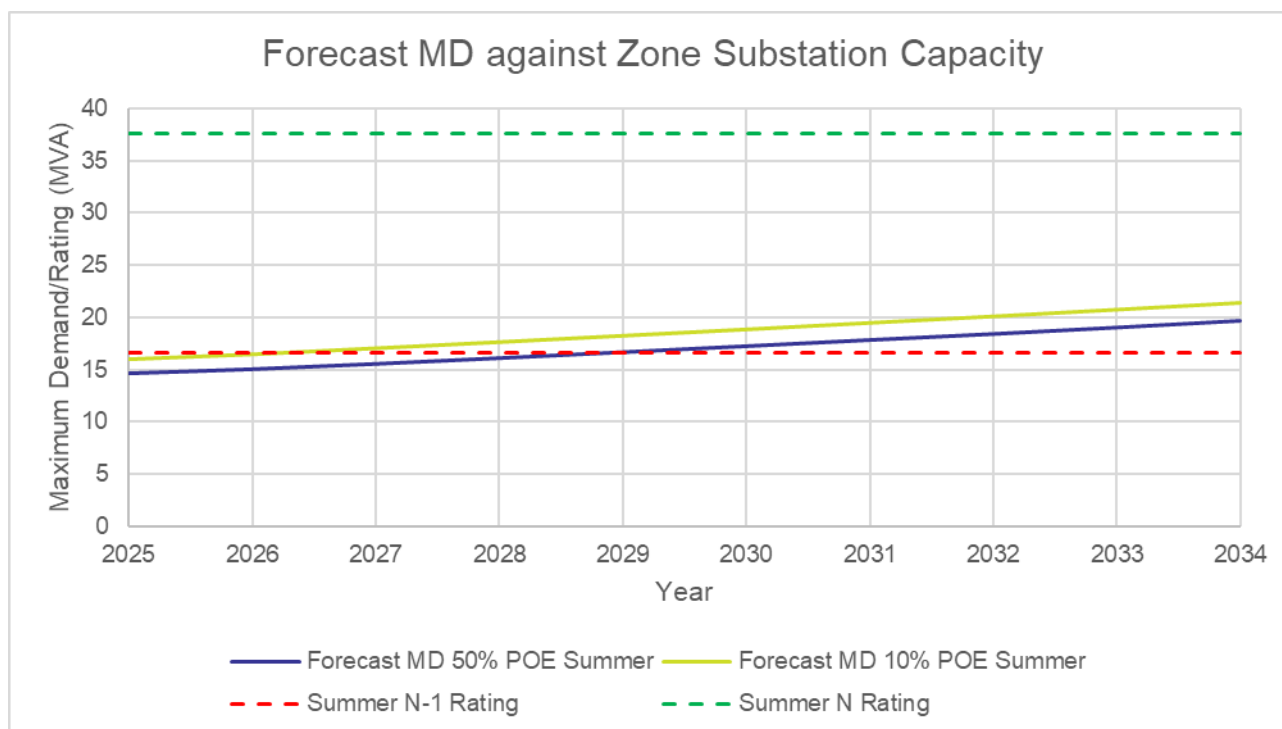
Asset	0-0.5%	0.5-2%	2-5%	5%+
Transformers	1		1	
66kV Circuit Breakers	4			1
22kV Circuit breakers	2	4	2	
66kV Voltage Transformers	9			
22kV Voltage Transformers	1	3		
66kV Current Transformers				3
22kV Current Transformers	4		3	

While the PoF of the 22kV circuit breakers are relatively low, the PoF is greatly exacerbated by the condition of the 22kV indoor switchboard and is the main driver of this project.

## 3.5. Zone Substation Supply Capacity

KMS is a summer peaking station and the peak electrical demand reached 15.7MVA in summer 2024. The recorded peak demand during the winter of 2024 was 15.2MVA.

Figure 3 shows the forecast maximum demand and supply capacities for KMS



**Figure 3: NLA Forecast Maximum Demand against Zone Substation Capacity**

# 3.6. Load Duration Curves

The zone substation load duration curves that feed into the risk-cost assessment model are derived from historical actual demands between:

- 1 October 2023 and 31 March 2024 for the summer 50% probability of exceedance (POE) curves;
- 1 April 2023 and 30 September 2024 for the winter 50% POE curves;
- 1 October 2023 and 31 March 2024 for the summer 10% POE curves; and
- 1 April 2023 and 30 September 2024 for the winter 10% POE curves.

The historical hourly demands are separated by season and unitised based on the recorded maximum demand within that season (summer and winter) and time period, which allows the load duration curve to be scaled according to the seasonal forecast maximum demand for each year of the assessment period.

The 50% POE unitised load duration for KMS zone substation is presented in Figure 4, and the 10% POE unitised load duration for NLA zone substation is presented in Figure 5.

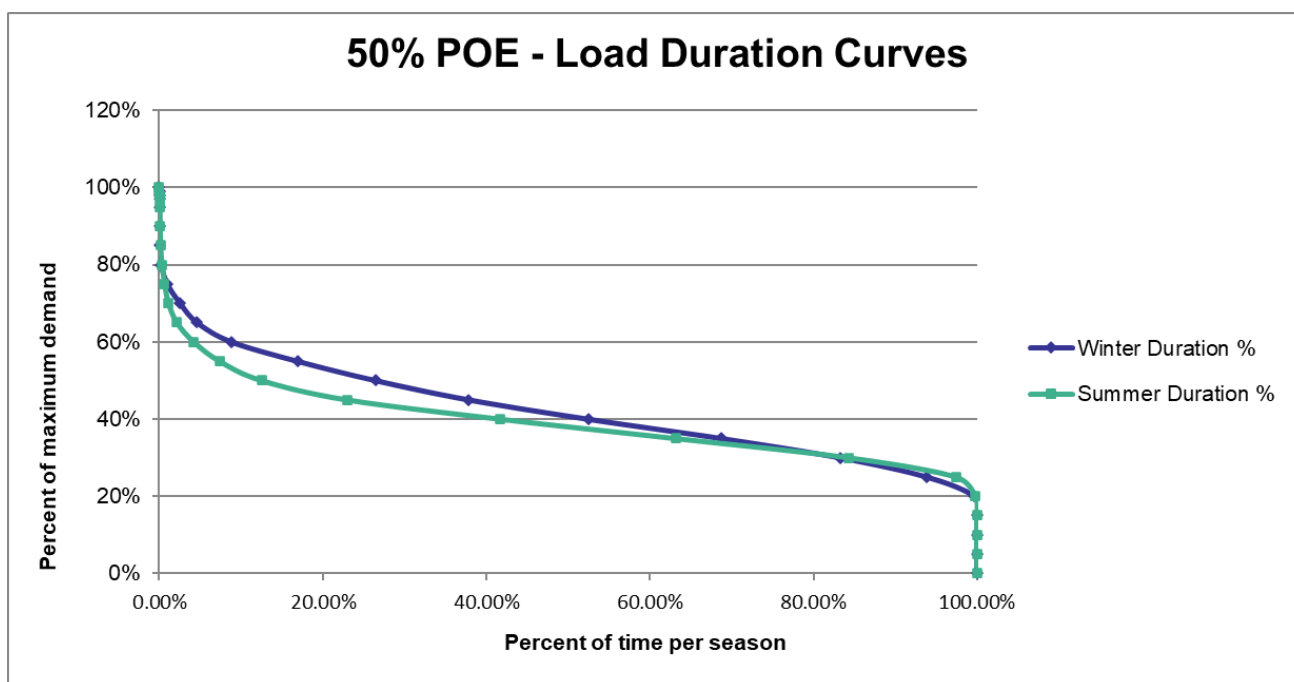


Figure 4: KMS 50% Load Duration Curves

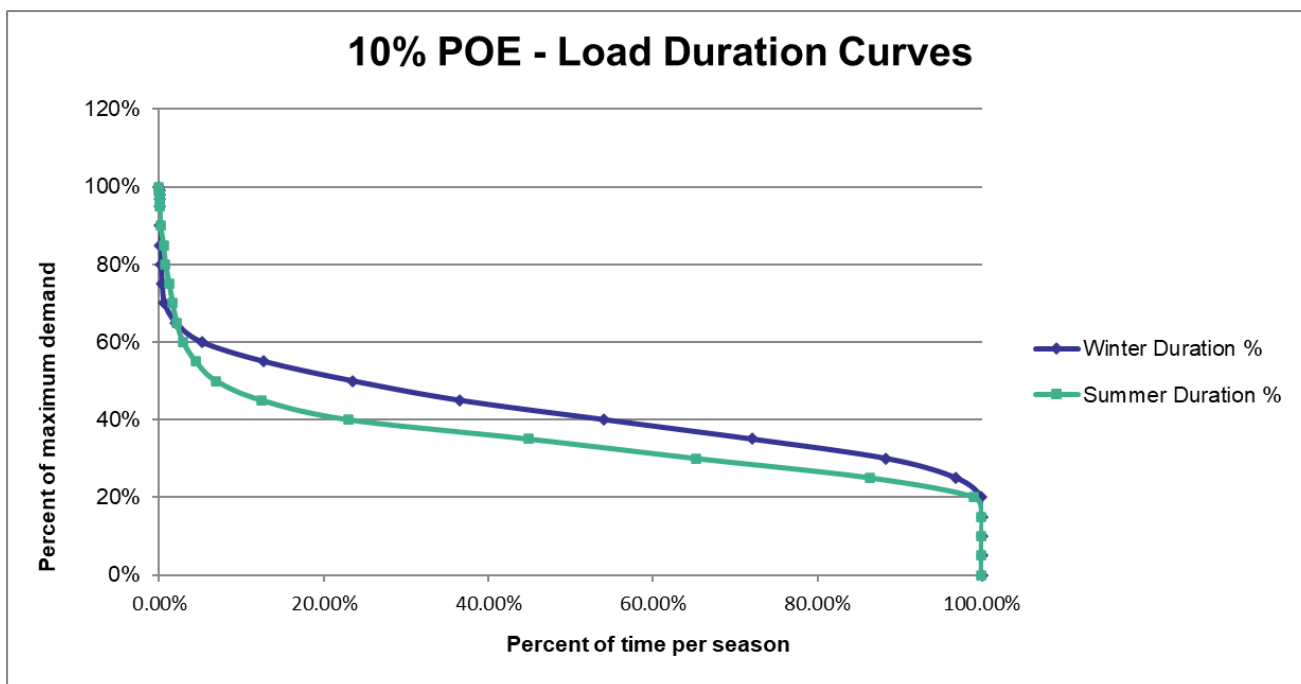


Figure 5: KMS 10% POE Load Duration Curves

## 3.7. Feeder Circuit Supply Capacity

There is currently no requirement for additional feeders at KMS due to the low load growth in the area.

## 3.8. Load Transfer Capability

The Distribution Annual Planning Report (DAPR) provides the load transfer capability (in MW) of the feeder interconnections between KMS and its neighbouring zone substations.

This is then forecast forward in line with the forecast demand growth to give the forecast load transfer capability in Table 4.

Table 4: NLA Load Transfer Capability

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Load Transfer Capability (MW)	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6

## 4. Other Issues

### 4.1. Regulatory Obligations

This planning report acknowledges AusNet obligations as a Distribution Network Service Provider under the National Electricity Rules with particular emphasis on:

Clause 6.5.7 of the National Electricity Rules requires AusNet to only propose capital expenditure required in order to achieve each of the following:

- (1) *meet or manage the expected demand for standard control services over that period;*
- (2) *comply with all applicable regulatory obligations or requirements associated with the provision of standard control services;*
- (3) *to the extent that there is no applicable regulatory obligation or requirement in relation to:*
  - (i) *quality, reliability or security of supply of standard control services; or*
  - (ii) *the reliability or security of the distribution system through the supply of standard control services*

*to the relevant extent:*

  - (iii) *maintain the quality, reliability and security of supply of standard control services, and*
  - (iv) *maintain the reliability and security of the distribution system through the supply of standard control services; and*
- (4) *maintain the safety of the distribution system through the supply of standard control services.*

Section 98(a) of the Electricity Safety Act requires AusNet to:

1. *design, construct, operate, maintain and decommission its supply network to minimise as far as practicable –*
  - (a) *the hazards and risks to the safety of any person arising from the supply network; and*
  - (b) *the hazards and risks of damage to the property of any person arising from the supply network; and*
  - (c) *the bushfire danger arising from the supply network.*

The Electricity Safety act defines 'practicable' to mean having regard to –

- (a) *severity of the hazard or risk in question; and*
- (b) *state of knowledge about the hazard or risk and any ways of removing or mitigating the hazard or risk; and*
- (c) *availability and suitability of ways to remove or mitigate the hazard or risk; and*
- (d) *cost of removing or mitigating the hazard or risk.*

Clause 3.1 of the Electricity Distribution Code requires AusNet to:

2. (b) *develop and implement plans for the acquisition, creation, maintenance, operation, refurbishment, repair and disposal of its distribution system assets and plans for the establishment and augmentation of transmission connections:*
  - (i) *to comply with the laws and other performance obligations which apply to the provision of distribution services including those contained in this Code;*
  - (ii) *to minimise the risks associated with the failure or reduced performance of assets; and*
  - (iii) *in a way which minimises costs to customers taking into account distribution losses.*

## 4.2. Station Configuration Risk

The configuration of NLA means that failure of a major piece of equipment (power transformers, circuit breakers, current transformers and voltage transformers) will result in an immediate loss of all supplies from NLA zone substation until the failed equipment can be switched out, isolated and the station supplies restored.

This would be for an estimated duration of two hours, which is the typical time it takes operators to travel to site and manually re-configure circuits to isolate the failed equipment and sequentially restore supply to as many customers as possible.

**Error! Not a valid bookmark self-reference.** lists the estimated bus outage consequence factors for each major type of equipment based on the substation layout.

**Table 5: TT Bus Outage Consequence Factors**

Failed Equipment	Estimated Bus Outage Consequence
Transformer	0%
22kV circuit breaker	37%
66kV circuit breaker	0%
22kV current transformer	37%
66kV current transformer	0%
22kV voltage transformer	33%
66kV voltage transformer	0%

## 5. Identified Need

Kilmore South (KMS) commenced operation as a 66/22kV transformation station in 1966. The two transformers (13.5MVA and 30MVA) were installed in 1967 and 2011 respectively. The 22kV switchyard consists of five CBs installed in 2005, two feeder CBs, a cap bank CB that were installed in 1985. The 22kV switchgear is tied into an indoor switchboard. The 66kV switchyard consists of 5 CBs installed in 2011 and one installed in 2023.

The physical and electrical condition of these assets has deteriorated and they are now presenting an increasing failure risk. This is especially prevalent on the 22kV switchboard.

The key service constraints at KMS are:

- Security of supply risks presented by the increased likelihood of asset failure due to the deteriorating condition of the assets;
- Health and safety risks presented by a possible explosive failure of bushings on a number of the assets;
- Plant collateral damage risks presented by a possible explosive failure of a number of the assets;
- Environmental risks associated with insulating oil spill or fire;
- Reactive replacement risks presented by the increasing likelihood of asset failure due to the deteriorating condition of the assets; and
- Health and safety risks presented by asbestos containing cement sheets or electrical switch boards in the control building, store room and toilet.

## 6. Risk and Options Analysis

### 6.1. Risk-Cost Model Overview

AusNet's risk-cost model quantifies the benefits of potential investment options by comparing the service level risk of the Do Nothing (Counterfactual) option with the reduced service level risk assuming the credible option is place.

The investment cost to implement the credible option is then subtracted from the monetised benefit to compare credible options and identify the option that maximises the net economic benefit (the proposed preferred option).

The areas of service level risk costs, and risk cost reduction benefits, that AusNet considers include:

- Supply risk;
- Safety risk;
- Collateral damage risk;
- Reactive replacement risk;
- Environment risk;
- Operations and maintenance costs; and
- Losses.

Further details on the model can be found in AusNet' Risk-Cost Assessment Model Methodology paper.

### 6.2. Risk Mitigation Options Considered

The following options have been identified to address the risk at NLA:

- (1) Do Nothing
- (2) Retire one transformer
- (3) Retire one transformer and sure up supply capacity via network support
- (4) Network support to defer retirement and replacement
- (5) Replace 22kV switchgear

An economic cost-benefit assessment is used to assess and rank the economic efficiency of each option.

The following sections provide a brief summary of each of these options

#### 6.2.1. Option 1: Do Nothing Different

The Do Nothing Different (counterfactual) option assumes that AusNet would not undertake any investment, outside of the normal operational and maintenance processes.

Under this option, increasing supply risk would be managed by increased levels of involuntary load reduction.

Increased non-supply risks, such as those associated with safety, collateral damage, reactive replacement and environmental impacts, would be accepted as unmanaged rising risk costs.

The Do Nothing Different (counterfactual) option establishes the base level of risk and provides a basis for comparing potential options.

Since this option assumes no investment outside of the normal operational and maintenance processes, this is a zero-investment cost option.

#### 6.2.2. Option 2: Retire one transformer

This options tests whether the current installed capacity of the substation is still required to meet customer demand and whether equipment could be retired rather than replaced.

The capital cost for this option is [CIC], for associated decommissioning works.



### 6.2.3. Option 3: Retire one transformer and sure up supply capacity via network support

This option tests whether the current installed capacity of the substation is still required to meet customer demand and whether equipment could be retired and network support used rather than replacing poor condition assets.

The capital cost for this option is [CIC], for associated decommissioning works and setup of a 5MW network support agreement.

In addition to the capital cost, there is ongoing operational costs associated with this option that represent the network support availability and activation costs, and which vary year-by-year based on the network support expected under this option, as outlined in **Error! Reference source not found..**

**Table 6: Network support services annualised costs (\$ million)**

2024	2025	2026	2027	2028
[CIC]				

### 6.2.4. Option 4: Use network support to defer retirement and replacement

This options tests whether network support can be used to defer the replacement of poor condition assets. This option addresses the supply risks associated with poor condition assets, but does not address the safety, environmental or collateral damage risks as the assets remain in service.

The capital cost of this option is [CIC], for setup of a 20MW network support agreement.

In addition to the capital cost, there is ongoing operational costs associated with this option that represent the network support availability and activation costs, and which vary year-by-year based on the network support expected under this option, as outlined in **Error! Not a valid bookmark self-reference..**

**Table 7: Network support services annualised costs (\$ million)**

2025	2026	2027	2028	2029
[CIC]				

### 6.2.5. Option 5: Replace outdoor 22kV switchgear

This option allows for the replacement of the current 22kV indoor switchboard. This replacement includes the associated costs for removing the current switch gear and CBs, installation of the new modular indoor switchboard and all associated works.

This option has a capital cost of [CIC] million.

## 6.3. Risk-Cost Model Results

### 6.3.1. Existing service level risk

Figure 6 shows the existing service level risk. The risk costs are dominated by supply risk and non-supply risks (safety, environment, collateral damage and reactive replacement). The escalation in the risk costs over time is driven by deterioration in the condition of the assets.

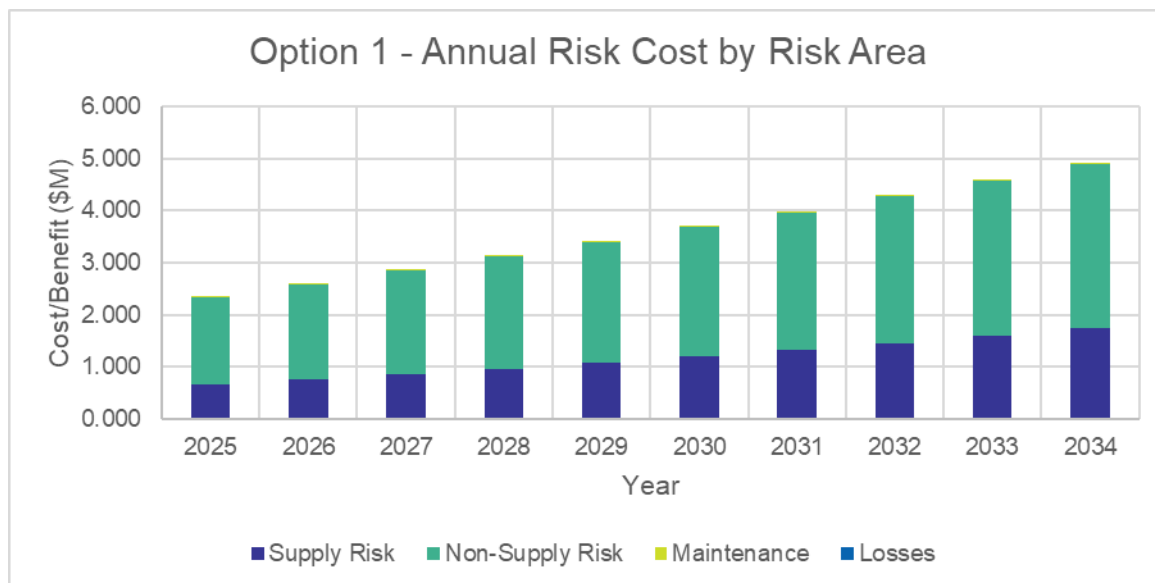


Figure 6: Do Nothing Different – Service Level Risk Cost

### 6.3.2. Economic Cost Benefit analysis

The economic analysis allows comparison of the economic cost and benefits of each option to rank the options and to determine the economic timing of the preferred option.

It quantifies the capital, operation and maintenance costs along with service level risk reduction benefits for each option.

Table 8 lists the annualised net economic benefit of each option for each year, with the option that maximises this benefit highlighted.

Negative NPV values in **Error! Reference source not found.** are shown as zero.

Table 8: Annualised net economic benefit (\$M)

	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Option 1	[CIC]									
Option 2										
Option 3										
Option 4										
Option 5										

This indicates that Option 5 is the most economic option.

### 6.3.3. Sensitivity Analysis

Table 9 presents the net present value of net economic benefits under a variety of sensitivities. The net economic benefit assessment takes account of each option's total capital, operating and maintenance costs, compared to the reduction in service level risk cost that option is expected to deliver.

The robustness of the economic assessment is tested for the following sensitivities:

- Asset failure rates, varied at ±50% of the base failure rate;
- Maximum demand forecasts, varied to ±5% of the base forecast;
- Value of customer reliability (VCR), varied to ±25% of the base VCR;
- Proposed option costs, varied to ±15% of the base option cost;
- Discount rate of 5.56%, varied to ±2% per annum of the base discount rate.

The preferred option under each sensitivity is highlighted, and the option that maximises net benefits under the majority of sensitivities is considered the proposed preferred option. A negative NPV is shown as a zero.

**Table 9: NPV of Net Economic Benefit Analysis**

	Option 1	Option 2	Option 3	Option 4	Option 5
High asset failure					
Low asset failure					
High demand					
Low demand					
High option cost					
Low option cost					
High discount rate					
Low discount rate					
High VCR					
Low VCR					

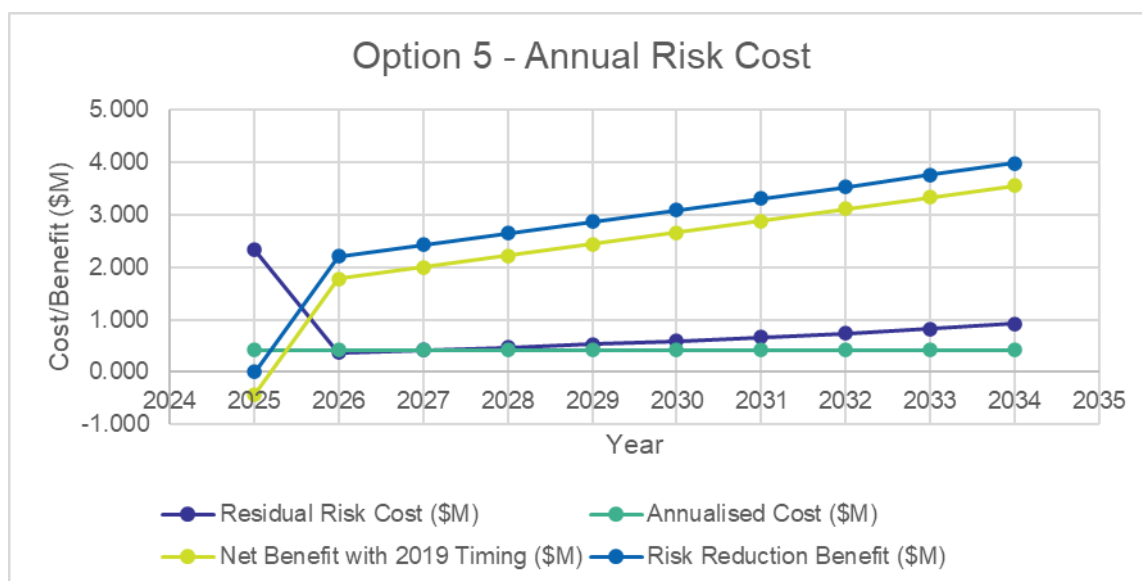
The sensitivity analysis indicates the preferred option is Option 5, as it has the highest net benefit under the majority of sensitivities tested.

### 6.3.4. Economic timing of preferred option

The annual benefit of implementing a credible alternative option to the Do Nothing Different (counterfactual) is the difference between total service level risk cost with a credible option in place, and the total service level risk cost of the Do Nothing Different option.

The optimal economic timing of the proposed option is the point in time when the annual benefit of implementing the proposed option outweighs the annualised cost to implement that option.

The optimal economic timing to implement the proposed preferred option is by summer 2025/26, as presented in Figure 7.



**Figure 7: Economic timing of the proposed preferred option**

## 7. Conclusion and Next Steps

The assessment outlined in this report shows that the service level risk to customers supplied from Kilmore South (KMS) Zone Substation is not forecast to grow to unacceptable levels within the 2026-31 EDPR period.

### 7.1. Proposed Preferred Option

The options analysis identifies that the preferred option, being the one that maximises the net economic benefit to all those that produce, consume and transport electricity in the NEM, is to:

- Replace the 22kV switchgear by summer 2026/27, at an estimated capital cost of [CIC] million (Real \$2024).

Applying a discount rate of 5.56% per annum, this proposed preferred option has a net economic benefit of \$54.26 million, relative to the Do Nothing Different option, over the forty-five-year assessment period.

While the optimal timing of the proposed preferred option is by 2026, to manage the deliverability, allow sufficient time to complete the required regulatory investment test for distribution (RIT-D), and to spread costs throughout the 2026-31 EDPR, AusNet plans to begin implementing the proposed preferred option by 2026

### 7.2. Next steps

This planning report outlines the service level risk mitigation investment that AusNet has assessed as prudent, efficient and providing the optimal balance of supply reliability and cost.

While this report outlines AusNet' plans for maintaining service levels, and serves to support AusNet' revenue request for the 2026-31 EDPR period, the proposed investment is subject to the regulatory investment test for distribution (RIT-D).

As such, the proposed investment will be confirmed via the formal RIT-D process, which includes publication of three reports at the various RIT-D stages, and includes a formal consultation process where interested parties can make submissions that help identify the optimal solution.

## A. Appendix

### A.1. Preferred Option Details

The high level scope of work for the proposed preferred option includes:

- Install one new indoor 22kV modular switchboards with integral feeder protection, bus protection and capacitor protection and control configured as one 22kV buses with one transformer incomer, three 22kV feeders and one capacitor bank;
- Reconnect both 22kV feeders and a new capacitor bank to new indoor switchboards;
- Demolish and remove the existing outdoor 22kV switchgear;
- Replace/establish associated protection works; and
- Upgrade station fencing, switchyard lighting, surfaces, drainage, trenches to current standards.




### A.2. Project Cost Summary

KMS			
	Unit Rate	Qty	Total
Install 1 new modular 22kV switch rooms including the removal of the existing switchgear (as per Rev B estimate and comments) Includes: Civil work and extend earth grid Re-route and reconnect all three 22KV feeders Security Upgrade - Station fencing, CCTV, lighting etc Surfaces, drainage, trench improvements			[CIC]
		<b>TOTAL DIRECT COSTS</b>	<b>[CIC]</b>

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