
Feeder Reliability Investment Case

Business case: Reliability Program – MOE13

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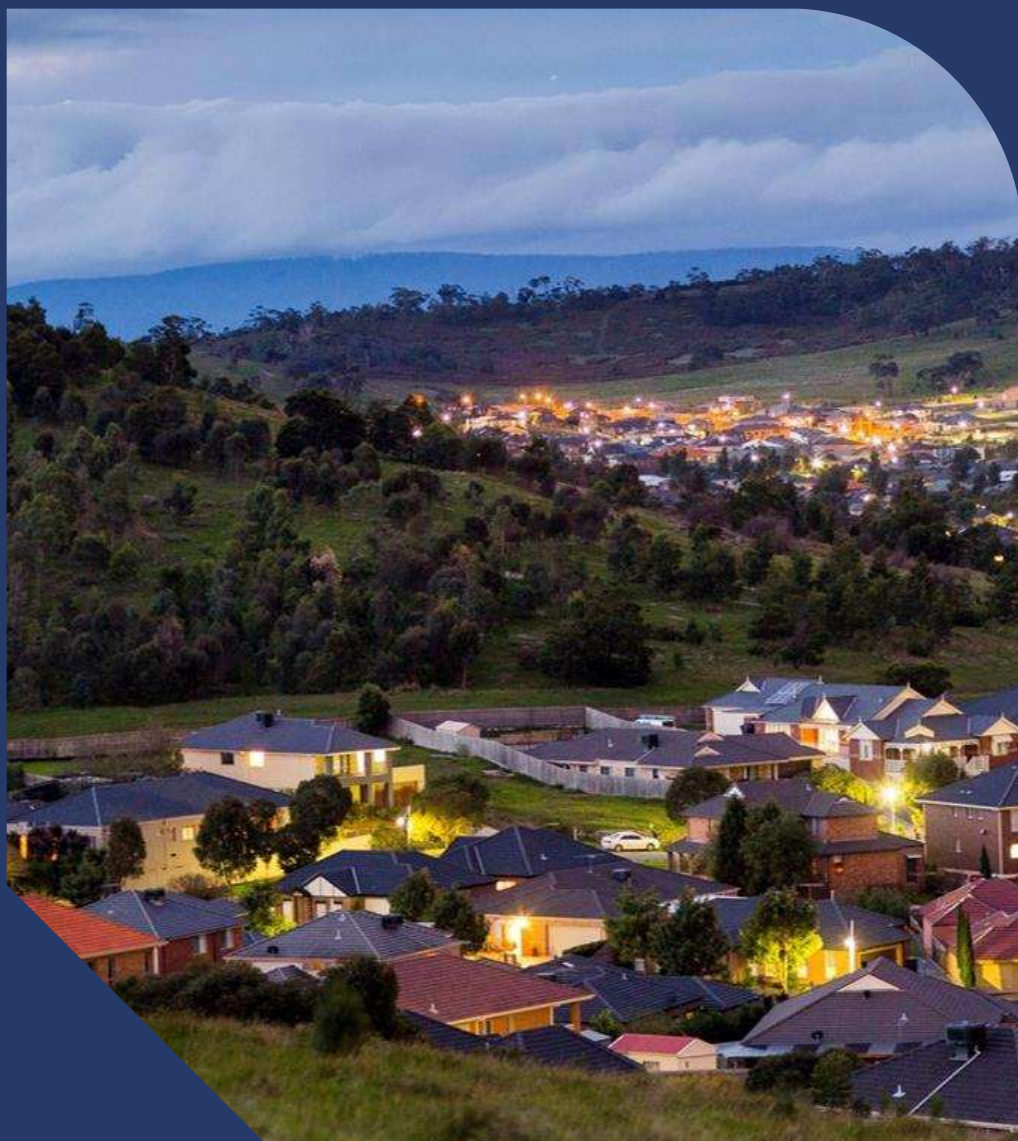


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1. Introduction

1.1. Background

The document outlines a business case for intervention investments as they relate to improving the reliability and resilience of Moe distribution feeder MOE13.

This business case outlines the following processes:

- **Analysed data to forecast risk:** Utilising historical network reliability and asset data to outline the current exposure risk associated with the investigated feeder.
- **Assessed various options:** Analysing potential investment factoring in cost and benefit and comparing them against the status-quo / do-nothing options.
- **Identified the preferred option:** Costs and benefits from above were converted into cashflow streams to allow the Net Present Value (NPV) to be calculated. We have selected the preferred option based on the option that is able to deliver the highest NPV of all the options assessed, across all sensitivity scenarios.

1.2. Feeder Summary

The following table gives a summary into the feeder:

Table 1: Feeder MOE13 Summary

Feeder Name	MOE 13			
Feeder Type	Rural Short			
Feeder Zone Substation	Moe			
Length of Line	Total	187.8kms.		
	OH	186.9kms (99.5%)	UG	0.9kms (0.5%)
Number of Customers	768			
Number of Life Support Customers	16			
Number of Switches	Auto Reclosers 22kV	6	Auto Reclosers 12.7kV	1
	Fuse Saver	1		
	Manual Gas Switches	17	Auto Sectionalisers	2
Tie points	Feeder Tie	1	Automated	0

MOE13 feeder is one of the eight 22kV feeders connected to the MOE zone substation. MOE zone sub is one of the 22 zone substations in AusNet service area that is fitted with the REFCL technology, which requires special technical considerations when it comes to protection and control device applications. MOE13 is also supplying two of the 19 areas classed as Codified in which heightened standards for powerline installation and replacement will apply.

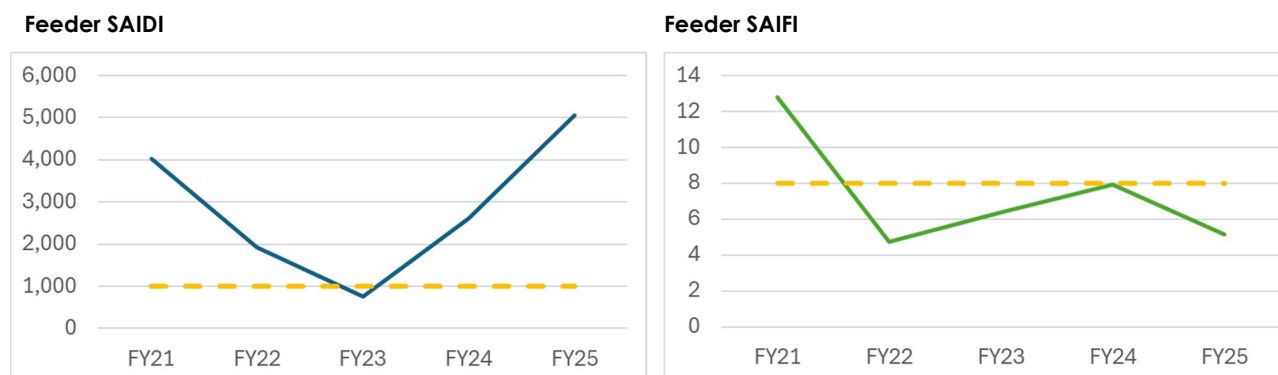
MOE13 currently only has one tie point to MOE15 feeder via a switch sectionaliser.

In terms of average customers per distribution substation, it ranks 43rd lowest (out of 364 feeders) at only 2.4 customers per sub compared to the network average is 31.1.

Also, it ranks 51st lowest in terms of average kVA per substation at 43.3kVA (network average is 271.2kVA). In terms of customer type composition, residential customers make up 46.5%, followed by farm customers at 39.6%.

1.3. Feeder Reliability Summary

The following graphs show a rolling 12-month reliability summary for both frequency (SAIFI) and duration (SAIDI) of normalised unplanned sustained outages. This performance is compared against a performance threshold¹.



As it can be seen from the above graphs, this has been consistently a poor performing due to duration of outages. The feeder has been performing well against SAIFI in recent years.

1.3.1. Cause Summary

Table 2 compares average historical sustained outage performance against the last 12 months.

Table 2: Cause type summary

Cause Type	Quantity			Feeder CMOS			Average Contribution per event (Av CMOS / Av No Incidents)
	Avg p.a. (FY20-25)	Last 12 months	% of average	Avg p.a. (FY20-25)	Last 12 months	% of average	
Animal	7.8	3.0	38%	9,453	1,041	11%	1,212
Asset failure	6.0	6.0	100%	316,946	3,843	1%	52,824
Network business	0.2	1.0	500%	61	306	500%	306
Other	4.8	3.0	63%	207,618	7,980	4%	43,254
Overload	4.0	0.0	0%	23,223	0	0%	5,806
Planned	0.2	0.0	0%	87	0	0%	433
Third party	0.8	0.0	0%	17,685	0	0%	22,106
Vegetation	15.4	17.0	110%	890,503	1,560,609	175%	57,825
Weather	7.2	12.0	167%	576,910	2,073,897	359%	80,126
Unknown	6.2	6.0	97%	159,721	228,150	143%	25,761
Total	52.6	48.0	91%	2,202,206	3,875,826	176%	41,867

As it can be seen from the above table, the feeder experiences an average of 53 sustained interruptions per year, with an average contribution of 2.2 million customer minutes. The predominate causes of incidents on this feeder are:

¹ As there are currently no published individual feeder thresholds for Victoria, the published NSW thresholds have been used for Short Rural, Urban and Long Rural Metrics.

- **Vegetation** – attributing 40% of total CMOS and 29% of the incidents. Over the past five regulatory years (FY20-FY25), bark faults represent 43% of vegetation-related incidents followed by fallen trees and branch on lines at 40% and 10% respectively.
- **Adverse weather** – contributing 26% of the CMOS and 14% of total incidents. Over the same five-year period, lightning-caused interruptions represent 56% of weather-related faults followed by interruptions associated with high winds and/or extreme temperature days.

Additionally, the variability of the performance of this feeder is due to weather related impacts, as it can be seen in regulatory years FY21 and FY25.

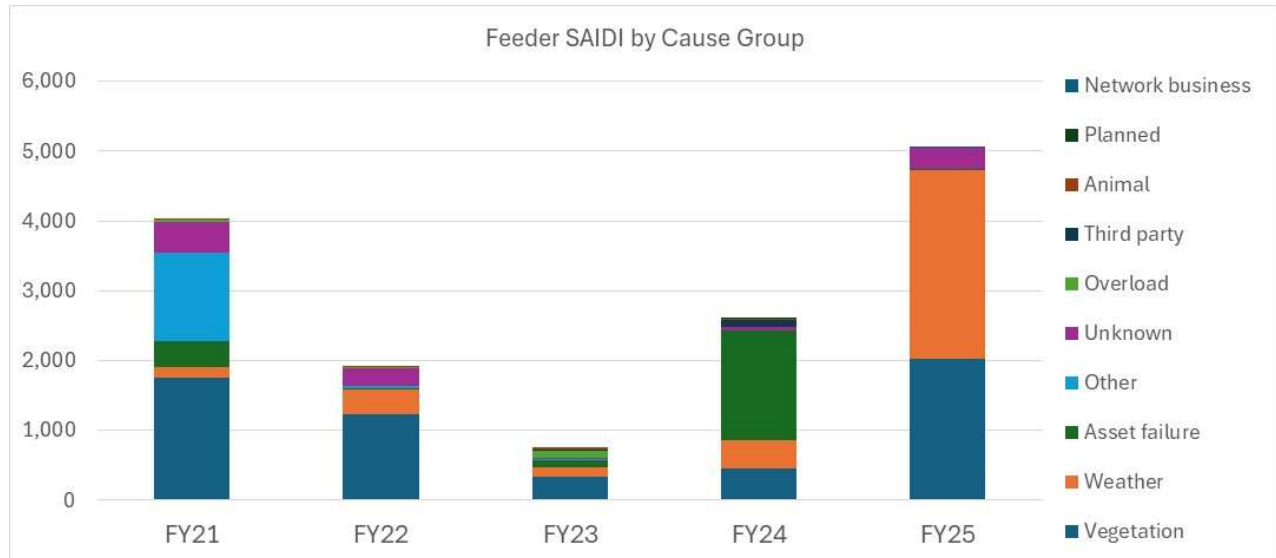


Figure 1 : Feeder performance due to cause

The MOE13 feeder is situated in the South Gippsland region and is around 115km from the nearest coastline. South Gippsland region experiences the highest of average wind/gust speed within AusNet service area. With over 98% of its medium voltage lines overhead and through some heavily vegetated areas, majority of outages on this feeder are driven by severe weather activity often impacting vegetation.

Investigation on vegetation-related faults indicate hot spots on:

- Willow Grove to the east;
- Thalloo to the East; and,
- around Tanjil South.

During major event days (storms), it takes an average of 12 hours to fully restore impacted customers. This is due to the time it takes to travel long radial lines often with no road access supplying small number of customers.

1.3.2. Major Event Day Summary

The following gives a break down on the number and size of the major event days over the last five regulatory years which have impacted this feeder.

Table 3 – Recorded Major Event Days

Date	Major Event Day Cause	Number of Customer Interruptions	Total CMOS	Average customer outage duration mins (CMOS / No of Customers Interrupted)
27-Aug-20	Storm	2,061	860,361	417.45
16-Nov-20	Storm	1,168	299,000	255.99
09-Jun-21	Storm	413	1,085,960	2629.44
10-Jun-21	Storm	318	75,960	238.87

Date	Major Event Day Cause	Number of Customer Interruptions	Total CMOS	Average customer outage duration mins (CMOS / No of Customers Interrupted)
29-Oct-21	Storm	1,055	412,731	391.21
02-Dec-21	Storm	725	446,709	616.15
02-Jan-24	Storm	725	185,188	255.43
13-Feb-24	Storm	1,132	1,214,339	1072.74
02-Sep-24	Storm	2,599	2,802,957	1078.48
Total		10,196	7,383,205	563.17

As it can be seen from the above table, this feeder is affected regularly by major storm events, averaging 1.8 events per year, where on average 1,133 customer interruptions are affected with customers experiencing a 13-hour outage each instance.

1.3.3. Overall Feeder Summary

With almost 190km of overhead medium voltage supply exposed to weather elements and vegetation, low customer density, and relatively small-sized substations, it is predictable that MOE13 ranks 7th worst performing in terms of minutes lost per customer (among 140 Short Rural feeders).

The feeder experiences an average of 53 sustained interruptions per year, with an average contribution of 2.2 million customer minutes. Being situated in South Gippsland region, the MOE13 feeder experiences the highest of average wind/gust speed within AusNet service area, and as shown in Table 2 shows that weather and vegetation related faults contribute ~2/3 of annual minutes lost experienced by customers. There are three identified hot spot areas being: Willow Grove to the east; Thaloo to the East; and, around Tanjil South.

During major event days (storms), it takes an average of 12 hours to fully restore impacted customers. This is due to the time it takes to travel long radial lines often with no road access supplying small number of customers.

2. Investment Analysis

2.1. Current Planned Investments

There are no recent and planned reliability improvement investments on this feeder.

2.2. No Proactive Interventions

With no proactive intervention, the business as usual (BAU) reliability risk costs are detailed in Table 4 and Table 5. Reliability risk costs are calculated using the Values of Customer Reliability (VCR) and an average of Customer Minutes of Interruption (CMOS) per annum across 5 years of historical interruptions.

Table 4: Summary of risk by cause type

Cause Types	Avg CMOS p.a. (between FY20 & FY25)	Reliability risk cost p.a. (between FY20 & FY25)
Animal	9,453	\$ 12,279
Asset failure	316,946	\$ 411,731
Network business	61	\$ 80
Other	207,618	\$ 269,707
Overload	23,223	\$ 30,167
Planned	87	\$ 112
Third party	17,685	\$ 22,974
Vegetation	890,503	\$ 1,156,813
Weather	576,910	\$ 749,439
Unknown	159,721	\$ 207,486
Total	2,202,206	\$ 2,860,788

Table 5: BAU risk cost summary

	Total risk cost p.a.	PV20 of residual risk
BAU reliability risk cost	\$2,860,788	\$36,878,759

2.3. Potential and Recommended Interventions

The following sections detail the potential investment options considered categorised in the three investment areas: Operational actions, network options and non-network options.

2.3.1. Operational Actions

It is recommended to adopt a more targeted approach in managing vegetation by undertaking a quarterly bark patrol on this feeder to particularly around Willow Grove and Tanjil South where faults can affect significant number of customers.

Table 6: Operational options assessment

Identified Options	Investigation assessment	Option credibility
Option 1 - Quarterly bark patrol of MOE13	With climate change accelerating vegetation growth and risk, quarterly bark patrols provide a cost-effective and proactive solution to reduce outages. Early detection of hazardous vegetation significantly improves feeder reliability and minimises service disruptions.	Credible

2.3.2. Network Options

As described in section 2.3.1, majority of the minutes lost on this feeder were caused by extreme weather events and vegetation. Fault investigations suggest three main hot spots, which are upstream of manual gas switches 27698 (Tanjil South), 827627 (Willow Grove), and 848590 (Thaloo/Rawson) – Refer to Appendix 4.3. The following options were explored during the review.

Table 7: Network options assessment

Identified Options	Investigation assessment	Option credibility
Option 2 - Install 2 x ACRs and 1 x Sectionaliser	Replace the manual gas switches (MGS) 827698 and 827627 with auto circuit reclosers (ACR) to automatically isolate upstream sections prone to vegetation faults. With these ACRs in place, replace the fused switch location MO103 with sectionaliser (SEC) to automatically isolate faults downstream of this remote switch.	Credible
Option 3 - Install 2 x ACRs and 11 x Sectionalisers	In addition to Option 2 augmentations, this option recommends the conversion of 10 more sites of MGSs to be converted to SECs to reduce the number of customers impacted from faults and improve fault finding travel time. Refer to the Appendix 4.3 feeder diagram showing the proposed location of switch installations/conversions.	Credible
Option 4 - Install 2 x ACRs, 2 x Sectionalisers, 7km overhead line, and 200m underground	This option recommends the establishment of a 7km overhead tie line between MOE13 and MOE21 feeders utilising existing spur lines along Willow Grove Rd and Moe-Willow Grove Rd. This feeder tie line will provide backup power source to the Willow Grove township in the event of faults upstream of ACR MO004. The 2 x ACRs and 2 x SECs will replace existing MGS to reduce customer impact and improve restore time.	Credible

Identified Options	Investigation assessment	Option credibility
Option 5 – Installation of covered conductor for hot spot areas	The known hot spots on MOE13 feeder where majority of vegetation-related faults occur are downstream of Willow Grove, where the customer density is approximately 4 customers per km for over 40km of overhead lines, and the Thalloo leg is about 3 customers per km for roughly the same length. Figures 4.2 and 4.3 show the significant cost challenges of adopting kms of covered conductors to supply small number of customers. Therefore it is not economically justifiable.	Not credible
Option 6 – New Feeder tie to MOE21	This option considers the option of creating a second source of supply for MOE13 part way along the feeder so that sectionalisation and an alternative supply can be provided if faults occur between the Willow Grove area and the MOE13 feeder circuit breaker. It is proposed that the new feeder tie is complemented by additional ACRs and remote controlled gas switches to enable sectionalisation.	Credible

2.3.3. Non-Network Options

Table 8 outlines identified non-network options.

Table 8: Non-network option assessment

Identified Options	Investigation assessment	Option credibility
Option 6 - LV Quick Connect Generation	The low customer density LV sections beyond SW827627 where most MV faults related to weather and vegetation makes it economically unviable option.	Not credible

2.3.4. Economic Evaluation

Table 9 details the credible network investments identified in this investigation, their cost and residual reliability risk if implemented.

Table 9: Investment summary

Option	Investment details	Estimated OPEX Cost (\$)	Estimated CAPEX Cost (\$)	PV ₂₀ of residual risk (\$)
2	Install 2 x ACRs and 1 x Sectionaliser	CIC	CIC	\$18,392,480
3	Install 2 x ACRs and 11 x Sectionalisers	CIC	CIC	\$16,260,078
4	install 2 x ACRs, 2 x Sectionalisers, 7km overhead line, and 200m underground	CIC	CIC	\$14,965,841
6	Install 5 km of 22kV overhead line between MOE13 and MOE21 Install Two new remote controlled gas switches (including remote fault indicators)	CIC	CIC	\$27,595,848

On each of the above options, allocate 20 x hazard tree removals as a one-off CAPEX cost to be determined by a qualified arborist. This will target known areas of the feeder with highest risk rating.

Table 10 summarises the cost-benefit assessments for proposed investments as compared to the BAU case using net present value (NPV) calculations over a 20-year assessment period.

Table 10: Economic evaluation summary

Option	Residual risk cost	PV of benefits	PV of investment	NPV	BCR	Rank	Comments
BAU	\$36.88M					5	BAU – Does not capture benefits
2	\$18.39M	\$18.47M	\$0.63M	\$17.84M	29.55	1	Preferred option
3	\$16.26M	\$20.60M	\$1.88M	\$18.72M	10.94	3	
4	\$14.97M	\$21.90M	\$1.74M	\$20.16M	12.59	2	
6	\$27.60M	\$9.27M	\$1.36M	\$7.90M	6.81	4	

The proposed investment cost of \$0.63M is economically viable, with a positive NPV of \$17.84M and BCR of 29.55 over a 20-year assessment period.

2.3.5. Preferred Option Details

The preferred investment is Option 2 in which two existing manual gas switch (MGS) locations will be upgraded to automatic circuit reclosers (ACR) and one fused switch converted to a Sectionalisers (SEC) to allow auto/remote isolation and load transfers during faults. The increased sectionalisation is expected to improved fault finding and supply restoration.

A summary of the CMOS, feeder SAIDI and risk costs for the residual and benefit of the preferred investment is detailed in Table 11.

Table 11: Residual risk and annualised benefit summary

	Baseline p.a.	Outcome p.a.	Annualised Benefit
CMOS	2,202,206	1,098,302	50.1% Reduction
Customers Interrupted	5,686	2,836	
Reliability Risk Cost	\$2,860,788	\$1,426,756	\$1,432,675

2.3.6. Sensitivity Analysis

Option 2 provides an optimal solution by converting three existing manual switch locations into 2 x ACRs and 1 x SECs. The sensitivity on this solution is also favourable in all cases as indicated in Table 11.

Table 12: Net Present Value (\$m, 2025 dollars)

	Central assumptions	Higher WACC	10% increase in capex	Average	Comments
Do nothing					
Option 2	\$17.84M	\$16.00M	\$17.79M	\$17.21M	
Option 3	\$18.72M	\$16.66M	\$18.54M	\$17.93M	
Option 4	\$20.16M	\$17.97M	\$19.99M	\$19.37M	
Option 6	\$7.90M	\$6.99M	\$7.78M	\$7.78M	

Base WACC = 5.56%

Higher WACC = 7.00%

Therefore under the analysis, it was found that Option 2 is still positive under various scenarios.

2.3.7. Proposed Investment Timing

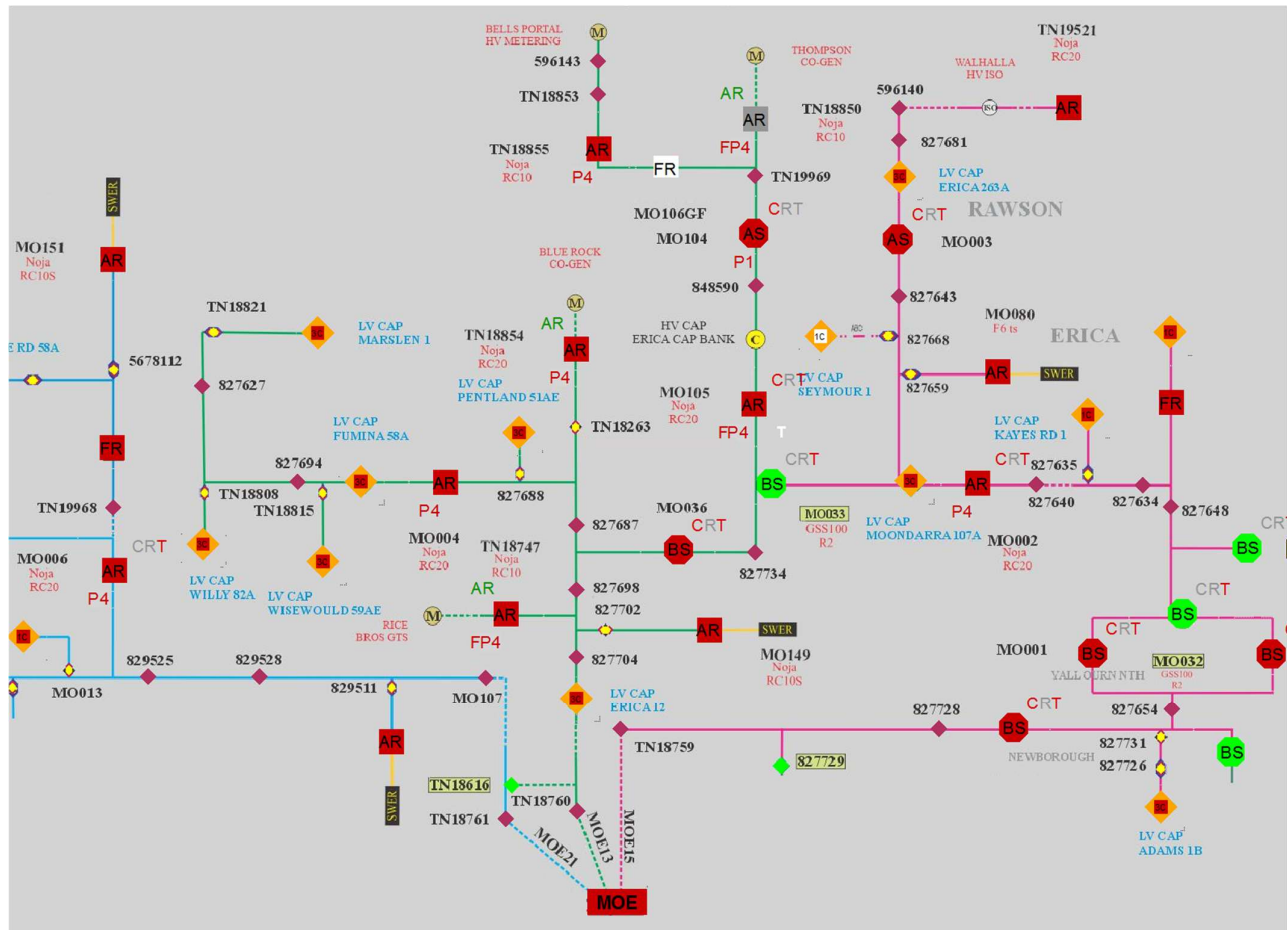
The proposed Option 2 is recommended to be completed by 30th March 2027.

3. Investment Recommendation

To improve the reliability performance of MOE13 feeder, it is recommended that the following project is included within the current Reliability Works Program.

- **Network Options**

- Replace the manual gas switches (MGS) 827698 and 827627 with ACRs.
- Convert MO103 fused switch site to a Sectionaliser.
- Hazard Tree removal on 20 highest risk locations.
- Undertake quarterly bark patrols at a (OPEX) cost of \$CIC per year to reduce the rate of bark-related faults that is currently 43% of vegetation-related faults on this feeder.
- Total CAPEX of \$CIC and OPEX of \$CIC (\$CIC + \$CIC CAPEX Cost)



4.2. Geographic Location of Feeder

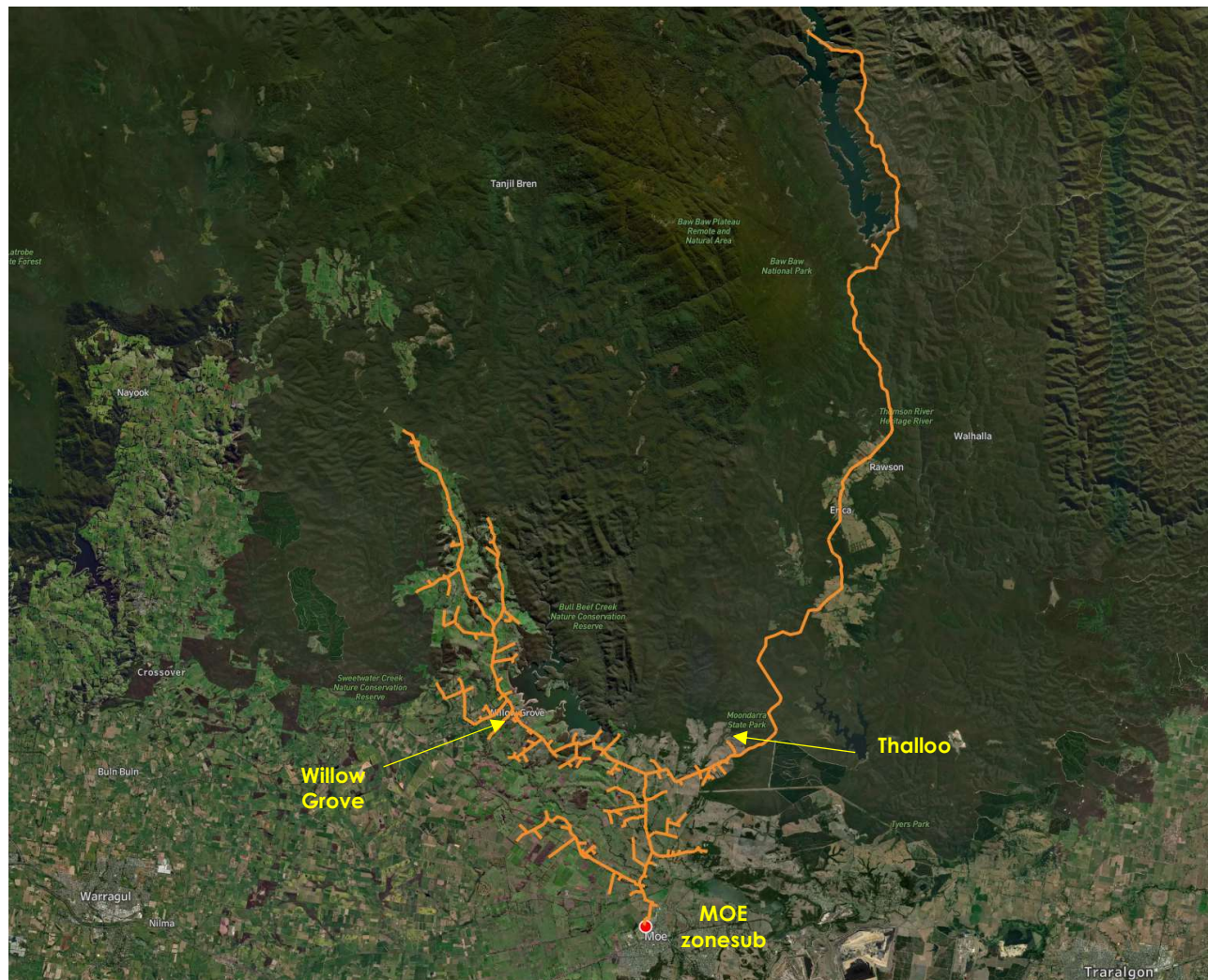
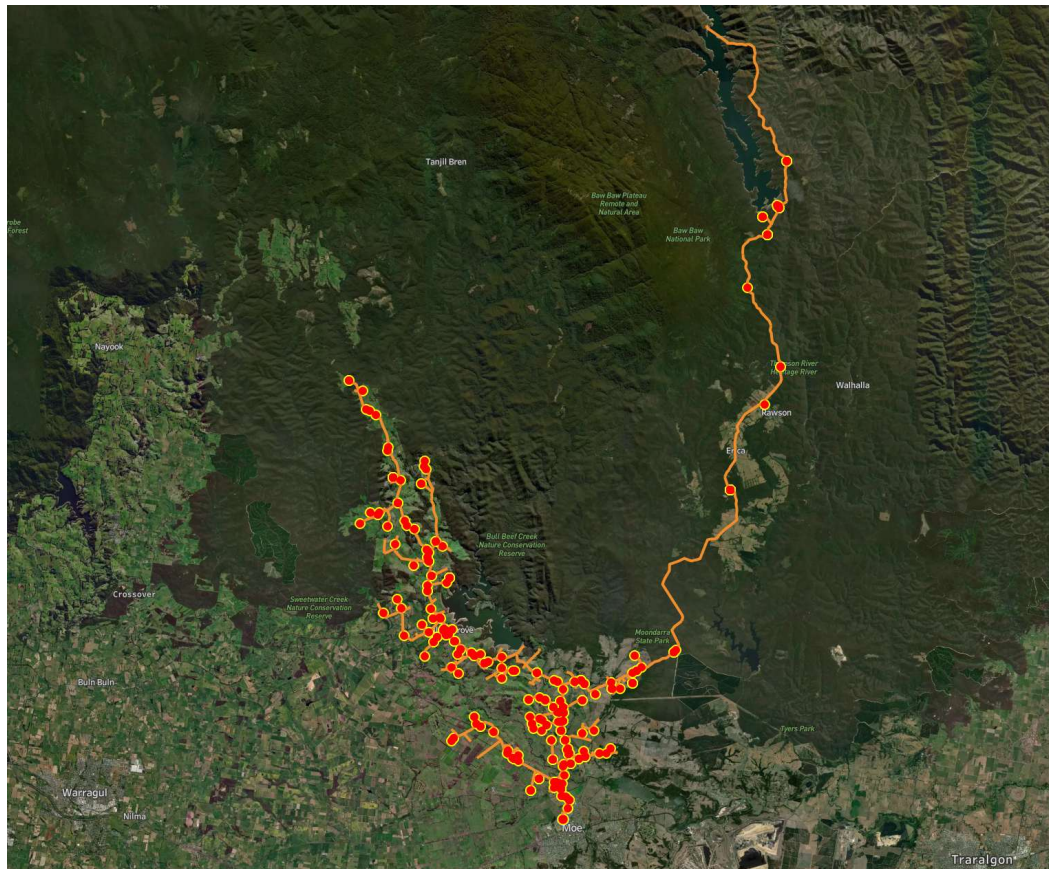
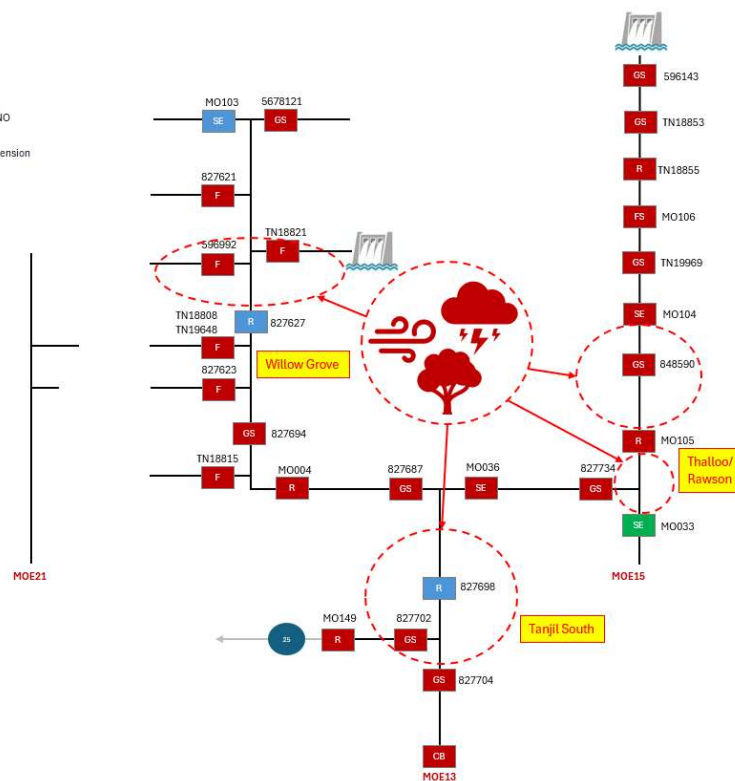
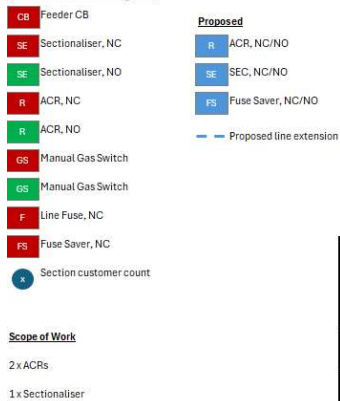


Figure 2: Map view of the LDL23 feeder

4.3. Heat Map of Outages



MOE13 Feeder Diagram



4.4. Assumptions and Unit Rates

2026-2031 Electricity Distribution Repex & Safety program forecasts					Option 2	
Note: Direct costs expressed in real 2023-24 and excluding contractor support costs, overheads and real cost escalation						
Description	Values	Units	Comments	Qty	Amt	
Conductor - Aluminium	CIC	per km		0	CIC	
Cables - Underground	CIC	per km		0	CIC	
ACR	CIC	per unit	2 x ACR ; 1 x SEC	3	CIC	
Control Boxes	CIC	per unit		0	CIC	
MV Switches – Manual Gas	CIC	per unit		0	CIC	
Est OPEX (0.5% of CAPEX) per year	CIC		Assumed cost per year		CIC	
One-off Tree removal (CAPEX)	CIC	per span	2 hazard tree removals or multi tree trim	20	CIC	
Bark patrol – quarterly	CIC	per day	2 person crew	4	CIC	
Detailed Patrol by a qualified arborist	CIC	per span	30 spans per day	0	CIC	
bi-yearly Vegetation rapid patrol	CIC	per rapid patrol	2-person crew for 2 days	0	CIC	

4.5. Outage Summary

Date	Incident Number	Cause	Cause Description	Sustained ?	CMOS	Customer Count	Feeder USAID
18/07/20	INCD-2254-a	Animal	Bird or Animal	YES	54	1	0.07
22/07/20	INCD-2707-a	Overload	Bird or Animal	YES	4160	26	5.42
22/07/20	INCD-2743-a	Overload	Hang Up	YES	2772	18	3.61
22/07/20	INCD-2798-a	Other	Extreme Weather	YES	135	1	0.18
23/07/20	INCD-2849-a	Asset failure	External Fault	YES	850	85	1.11
29/07/20	INCD-3590-a	Asset failure	Age	YES	123	1	0.16
4/08/20	INCD-4080-a	Other	Cause Not in List	YES	488	2	0.64
5/08/20	INCD-4338-a	Unknown		NO	0	1135	0.00
6/08/20	INCD-201-b	Asset failure	Corrosion	YES	122	1	0.16
12/08/20	INCD-4559-a	Unknown	Cause Not in List	YES	40985	2690	53.37
14/08/20	INCD-4679-a	Unknown		NO	0	30	0.00
14/08/20	INCD-4681-a	Unknown	Cause Not in List	NO	0	2266	0.00
18/08/20	INCD-4862-a	Unknown	Cause Not in List	YES	2450	10	3.19
21/08/20	INCD-5124-a	Weather	Lightning	YES	424	4	0.55
25/08/20	INCD-5542-a	Overload	Thermal Overload	YES	10962	1599	14.27
26/08/20	INCD-5775-a	Asset failure	Age	YES	309	3	0.40
27/08/20	INCD-5995-a	Unknown		NO	0	96	0.00
27/08/20	INCD-6010-a	Vegetation	Public Tree Broken-RootsOutsideClearance	NO	0	754	0.00
27/08/20	INCD-6010-a	Vegetation	Public Tree Broken-RootsOutsideClearance	YES	774029	755	1,007.85
27/08/20	INCD-6019-a	Unknown		NO	0	227	0.00
27/08/20	INCD-6029-a	Vegetation	Extreme Weather	YES	82405	227	107.30
27/08/20	INCD-6162-a	Weather	Extreme Weather	YES	1148	1	1.49
27/08/20	INCD-6855-a	Vegetation	Public Tree Branch Outside Clearance	YES	2779	1	3.62
28/08/20	INCD-1052-b	Weather	Extreme Weather	YES	104	1	0.14
28/08/20	INCD-6635-a	Unknown		NO	0	27	0.00
19/09/20	INCD-8276-a	Animal	Bird or Animal	YES	166	2	0.22
26/09/20	INCD-8634-a	Other	Extreme Weather	YES	205	1	0.27
7/10/20	INCD-9172-a	Unknown		NO	0	539	0.00
9/10/20	INCD-9331-a	Unknown		NO	0	387	0.00
9/10/20	INCD-9332-a	Vegetation	Public Tree Bark	YES	42312	387	55.09
9/10/20	INCD-9338-a	Unknown		NO	0	387	0.00
9/10/20	INCD-9343-a	Unknown		NO	0	387	0.00
9/10/20	INCD-9353-a	Asset failure	Extreme Weather	NO	0	3870	0.00
9/10/20	INCD-9353-a	Asset failure	Extreme Weather	YES	282281	0	367.55
16/10/20	INCD-9696-a	Animal	Bird or Animal	YES	252	4	0.33
23/10/20	INCD-10058-a	Asset failure	Corrosion	YES	123	1	0.16
29/10/20	INCD-10435-a	Unknown		NO	0	388	0.00
9/11/20	INCD-10892-a	Unknown		NO	0	387	0.00
9/11/20	INCD-10907-a	Animal	Bird or Animal	YES	181	1	0.24
11/11/20	INCD-11032-a	Unknown		NO	0	5	0.00
11/11/20	INCD-11033-a	Unknown		NO	0	5	0.00

Date	Incident Number	Cause	Cause Description	Sustained ?	CMOS	Customer Count	Feeder USAIDI
11/11/20	INCD-11035-a	Unknown		NO	0	5	0.00
11/11/20	INCD-11040-a	Unknown		NO	0	5	0.00
11/11/20	INCD-11043-a	Unknown		NO	0	5	0.00
11/11/20	INCD-11048-a	Unknown		NO	0	5	0.00
11/11/20	INCD-11050-a	Unknown		NO	0	5	0.00
11/11/20	INCD-11064-a	Unknown		NO	0	5	0.00
11/11/20	INCD-11069-a	Unknown		NO	0	5	0.00
12/11/20	INCD-11117-a	Animal	Bird or Animal	YES	1911	21	2.49
13/11/20	INCD-5448-c	Asset failure	Hang Up	YES	460	46	0.60
16/11/20	INCD-11308-a	Unknown		NO	0	5	0.00
16/11/20	INCD-11312-a	Unknown	Cause Not in List	NO	0	389	0.00
16/11/20	INCD-11312-a	Unknown	Cause Not in List	YES	237406	389	309.12
16/11/20	INCD-11315-a	Vegetation	Extreme Weather	YES	3330	5	4.34
16/11/20	INCD-11316-a	Unknown	Cause Not in List	YES	53458	314	69.61
16/11/20	INCD-11415-a	Unknown		NO	0	5	0.00
16/11/20	INCD-11417-a	Unknown		NO	0	5	0.00
16/11/20	INCD-11418-a	Unknown		NO	0	5	0.00
16/11/20	INCD-11420-a	Unknown		NO	0	5	0.00
16/11/20	INCD-11429-a	Unknown		NO	0	5	0.00
16/11/20	INCD-11437-a	Unknown		NO	0	5	0.00
16/11/20	INCD-11456-a	Vegetation	Public Tree Branch Inside Clearance	YES	4206	6	5.48
16/11/20	INCD-11466-a	Unknown		NO	0	5	0.00
16/11/20	INCD-11479-a	Unknown		NO	0	5	0.00
16/11/20	INCD-5650-c	Weather	Extreme Weather	YES	600	20	0.78
19/11/20	INCD-11691-a	Overload	Corrosion	YES	184	1	0.24
19/11/20	INCD-6464-c	Vegetation	Public Tree Branch Inside Clearance	YES	1540	20	2.01
20/11/20	INCD-11759-a	Vegetation	Public Tree Bark	YES	425	5	0.55
20/11/20	INCD-11793-a	Other	Poor Galvanic Protection	YES	1425	5	1.86
21/11/20	INCD-11824-a	Vegetation	Public Tree Bark	YES	2790	5	3.63
21/11/20	INCD-11849-a	Unknown	Cause Not in List	YES	90	5	0.12
22/11/20	INCD-11907-a	Other	Extreme Weather	YES	235	1	0.31
23/11/20	INCD-11938-a	Unknown		NO	0	708	0.00
23/11/20	INCD-11939-a	Unknown		NO	0	389	0.00
23/11/20	INCD-11942-a	Weather	Lightning	YES	109	1	0.14
25/11/20	INCD-12180-a	Other	Corrosion	YES	184	1	0.24
27/11/20	INCD-12266-a	Unknown		NO	0	5	0.00

Date	Incident Number	Cause	Cause Description	Sustained ?	CMOS	Customer Count	Feeder USAIDI
27/11/20	INCD-12267-a	Unknown		NO	0	5	0.00
27/11/20	INCD-12268-a	Unknown		NO	0	5	0.00
27/11/20	INCD-12269-a	Vegetation	Public Tree Bark	NO	0	5	0.00
27/11/20	INCD-12269-a	Vegetation	Public Tree Bark	YES	1425	5	1.86
28/11/20	INCD-12312-a	Unknown		NO	0	5	0.00
28/11/20	INCD-12328-a	Unknown	Cause Not in List	YES	25	5	0.03
28/11/20	INCD-12337-a	Unknown		NO	0	5	0.00
28/11/20	INCD-12347-a	Other	Vibration	YES	450	5	0.59
28/11/20	INCD-12348-a	Unknown		NO	0	5	0.00
28/11/20	INCD-12352-a	Vegetation	Private Tree Branch Outside Clearance	YES	98078	388	127.71
2/12/20	INCD-7996-c	Overload	Age	YES	110	2	0.14
7/12/20	INCD-13123-a	Overload	Thermal Overload	YES	198	1	0.26
10/12/20	INCD-13267-a	Vegetation	Public Tree Branch Outside Clearance	NO	0	5	0.00
10/12/20	INCD-13304-a	Unknown		NO	0	5	0.00
10/12/20	INCD-13309-a	Vegetation	Overvoltage	YES	86962	710	113.23
11/12/20	INCD-13354-a	Other	Poor Work Practice	YES	650	5	0.85
14/12/20	INCD-13477-a	Unknown		NO	0	5	0.00
16/12/20	INCD-13646-a	Unknown		NO	0	389	0.00
17/12/20	INCD-13692-a	Unknown		NO	0	389	0.00
17/12/20	INCD-13696-a	Unknown		NO	0	389	0.00
17/12/20	INCD-13697-a	Vegetation	Cause Not in List	YES	40907	389	53.26
21/12/20	INCD-13655-a	Overload	Thermal Overload	YES	210	2	0.27
10/01/21	INCD-15929-a	Unknown	Cause Not in List	YES	1225	1	1.60
20/01/21	INCD-16357-a	Unknown		NO	0	388	0.00
20/01/21	INCD-16358-a	Animal	Bird or Animal	YES	152	2	0.20
27/01/21	INCD-16824-a	Overload	Bird or Animal	YES	1572	6	2.05
29/01/21	INCD-17013-a	Vegetation	Cause Not in List	YES	31348	389	40.82
30/01/21	INCD-17088-a	Animal	Bird or Animal	YES	184	2	0.24
5/02/21	INCD-17390-a	Unknown		NO	0	5	0.00
5/02/21	INCD-17427-a	Unknown		NO	0	5	0.00
5/02/21	INCD-17429-a	Vegetation	Cause Not in List	YES	705	5	0.92
11/02/21	INCD-17793-a	Unknown		NO	0	5	0.00
28/02/21	INCD-18563-a	Unknown		NO	0	4	0.00
3/03/21	INCD-18676-a	Unknown		NO	0	389	0.00
3/03/21	INCD-18679-a	Animal	Bird or Animal	YES	72	1	0.09
8/03/21	INCD-18874-a	Animal	Bird or Animal	YES	166	2	0.22

Date	Incident Number	Cause	Cause Description	Sustained ?	CMOS	Customer Count	Feeder USAIDI
12/03/21	INCD-19067-a	Animal	Bird or Animal	YES	162	2	0.21
19/03/21	INCD-19426-a	Unknown		NO	0	5	0.00
21/03/21	INCD-19462-a	Unknown		NO	0	389	0.00
21/03/21	INCD-19467-a	Unknown		NO	0	389	0.00
21/03/21	INCD-19468-a	Vegetation	Public Tree Bark	YES	51846	389	67.51
30/03/21	INCD-9826-b	Weather	Extreme Weather	YES	28	2	0.04
7/04/21	INCD-20286-a	Unknown		NO	0	5	0.00
14/04/21	INCD-20690-a	Unknown		NO	0	5	0.00
18/04/21	INCD-20988-a	Asset failure	Bird or Animal	YES	57	1	0.07
22/04/21	INCD-21134-a	Unknown	Cause Not in List	YES	45	5	0.06
11/05/21	INCD-21866-a	Unknown		NO	0	387	0.00
15/05/21	INCD-13510-b	Vegetation	Extreme Weather	YES	230	1	0.30
15/05/21	INCD-22046-a	Unknown		NO	0	388	0.00
15/05/21	INCD-22058-a	Vegetation	Public Tree Bark	YES	48254	388	62.83
15/05/21	INCD-22064-a	Unknown		NO	0	4	0.00
25/05/21	INCD-22419-a	Unknown		NO	0	5	0.00
25/05/21	INCD-22420-a	Vegetation	Public Tree Branch Outside Clearance	YES	1805	5	2.35
7/06/21	INCD-22990-a	Animal	Bird or Animal	YES	685	5	0.89
9/06/21	INCD-23082-a	Unknown		NO	0	5	0.00
9/06/21	INCD-23083-a	Weather	Extreme Weather	YES	681	5	0.89
9/06/21	INCD-23152-a	Unknown		NO	0	5	0.00
9/06/21	INCD-23189-a	Unknown		NO	0	5	0.00
9/06/21	INCD-23191-a	Weather	Extreme Weather	YES	109071	5	142.02
9/06/21	INCD-23225-a	Other	Cause Not in List	YES	976208	388	1,271.10
10/06/21	INCD-23672-a	Vegetation	Private Tree Bark	NO	0	278	0.00
10/06/21	INCD-23672-a	Vegetation	Private Tree Bark	YES	75960	40	98.91
18/06/21	INCD-15892-b	Animal	Bird or Animal	YES	262	1	0.34
26/06/21	INCD-20781-b	Animal	Bird or Animal	NO	0	1	0.00
20/07/21	INCD-26994-a	Other	Cause Not in List (Use Comments)	NO	0	5	0.00
21/07/21	INCD-27021-a	Unknown	No Cause Found	YES	1910	5	2.49
28/07/21	INCD-27446-a	Vegetation	Public Tree Bark	NO	0	5	0.00
28/07/21	INCD-27450-a	Vegetation	Extreme Weather	NO	0	670	0.00
28/07/21	INCD-27450-a	Vegetation	Extreme Weather	YES	7060	45	9.19
31/07/21	INCD-27736-a	Unknown		NO	0	377	0.00
31/07/21	INCD-27739-a	Vegetation	Tree/Bark	YES	6552	12	8.53
15/08/21	INCD-28278-a	Unknown	Cause Not in List	NO	0	375	0.00

Date	Incident Number	Cause	Cause Description	Sustained ?	CMOS	Customer Count	Feeder USAIDI
15/08/21	INCD-28296-a	Other	Thermal Overload	YES	11416	15	14.86
5/09/21	INCD-25700-c	Animal	Bird or Animal	NO	0	2	0.00
5/09/21	INCD-29063-a	Unknown		NO	0	391	0.00
9/09/21	INCD-29227-a	Vegetation	Tree/Bark	YES	81	1	0.11
9/09/21	INCD-29239-a	Vegetation	Public Tree Branch Outside Clearance	YES	59311	391	77.23
10/09/21	INCD-29280-a	Other	Cause Not in List (Use Comments)	YES	247	1	0.32
21/09/21	INCD-29877-a	Unknown	Cause Not in List	NO	0	5	0.00
30/09/21	INCD-30155-a	Other	Cause Not in List (Use Comments)	YES	311	1	0.40
30/09/21	INCD-30227-a	Overload	Extreme Weather	YES	3207	3	4.18
1/10/21	INCD-30196-a	Unknown		NO	0	714	0.00
2/10/21	INCD-30252-a	Animal	Bird or Animal	NO	0	672	0.00
2/10/21	INCD-30252-a	Animal	Bird or Animal	YES	2610	45	3.40
3/10/21	INCD-30273-a	Asset failure	Corrosion	YES	381	3	0.50
3/10/21	INCD-30274-a	Unknown		NO	0	389	0.00
3/10/21	INCD-30282-a	Animal	Bird or Animal	YES	174	2	0.23
13/10/21	INCD-30701-a	Overload	Age	NO	0	548	0.00
13/10/21	INCD-30701-a	Overload	Age	YES	1859	11	2.42
16/10/21	INCD-31186-a	Vegetation	Tree/Bark	YES	126	1	0.16
29/10/21	INCD-32951-a	Unknown		NO	0	335	0.00
29/10/21	INCD-32951-a	Unknown		YES	194651	61	253.45
29/10/21	INCD-33038-a	Unknown		NO	0	630	0.00
29/10/21	INCD-33661-a	Vegetation	Public Tree Branch Outside Clearance	YES	218080	29	283.96
5/11/21	INCD-36747-a	Unknown		NO	0	395	0.00
5/11/21	INCD-36813-a	Other	Extreme Weather	YES	958	2	1.25
19/11/21	INCD-38591-a	Asset failure	No Cause Found	YES	5494	67	7.15
25/11/21	INCD-39372-a	Weather	Lightning	NO	0	10	0.00
2/12/21	INCD-40631-a	Vegetation	Public Tree Branch Inside Clearance	YES	445383	397	579.93
2/12/21	INCD-40717-a	Unknown		NO	0	322	0.00
2/12/21	INCD-40717-a	Unknown		YES	1326	1	1.73
2/12/21	INCD-40728-a	Unknown	Cause Not in List	NO	0	5	0.00
5/12/21	INCD-41669-a	Unknown		NO	0	397	0.00
6/12/21	INCD-41895-a	Animal	No Cause Found	YES	608	1	0.79
27/12/21	INCD-45065-a	Weather	Extreme Weather	YES	23290	170	30.33
12/01/22	INCD-47512-a	Unknown		NO	0	397	0.00
14/01/22	INCD-48047-a	Weather	Lightning	NO	0	10	0.00
14/01/22	INCD-48048-a	Unknown		NO	0	717	0.00

Date	Incident Number	Cause	Cause Description	Sustained ?	CMOS	Customer Count	Feeder USAIDI
15/01/22	INCD-48533-a	Vegetation	Public Tree Bark	YES	154230	398	200.82
15/01/22	INCD-48760-a	Other	Extreme Weather	NO	0	535	0.00
15/01/22	INCD-48760-a	Other	Extreme Weather	YES	19859	29	25.86
17/01/22	INCD-48972-a	Unknown		NO	0	398	0.00
17/01/22	INCD-48975-a	Animal	Bird or Animal	YES	490	2	0.64
24/01/22	INCD-50026-a	Animal	Bird or Animal	NO	0	2	0.00
24/01/22	INCD-50136-a	Overload	Age	YES	106	1	0.14
27/01/22	INCD-50713-a	Vegetation	Public Tree Bark	YES	37412	398	48.71
28/01/22	INCD-51224-a	Weather	Extreme Weather	NO	0	315	0.00
28/01/22	INCD-51224-a	Weather	Extreme Weather	YES	183933	679	239.50
28/01/22	INCD-51365-a	Overload	Extreme Weather	YES	2818	2	3.67
2/02/22	INCD-52516-a	Animal	Bird or Animal	YES	1848	3	2.41
28/02/22	INCD-55495-a	Overload	Age	YES	1905	3	2.48
1/03/22	INCD-55722-a	Unknown	No Cause Found	NO	0	5	0.00
9/03/22	INCD-56950-a	Vegetation	Private Tree Branch Inside Clearance	YES	11088	168	14.44
11/03/22	INCD-57189-a	Animal	Bird or Animal	YES	420	3	0.55
13/03/22	INCD-57393-a	Unknown		NO	0	393	0.00
13/03/22	INCD-57450-a	Unknown		NO	0	717	0.00
13/03/22	INCD-57480-a	Weather	Lightning	NO	0	40	0.00
13/03/22	INCD-57480-a	Weather	Lightning	YES	66087	677	86.05
13/03/22	INCD-57511-a	Weather	Lightning	YES	207	1	0.27
13/03/22	INCD-57514-a	Weather	Lightning	YES	900	5	1.17
13/03/22	INCD-57545-a	Weather	Lightning	YES	2526	2	3.29
16/03/22	INCD-57945-a	Animal	Bird or Animal	YES	182	1	0.24
25/03/22	INCD-25136-b	Animal	Bird or Animal	YES	68	1	0.09
5/04/22	INCD-60199-a	Unknown		NO	0	719	0.00
30/04/22	INCD-61550-a	Unknown		NO	0	719	0.00
1/05/22	INCD-61710-a	Asset failure	Age	YES	894	1	1.16
28/05/22	INCD-64561-a	Unknown	No Cause Found	YES	140	1	0.18
30/05/22	INCD-64632-a	Unknown	Cause Not in List	YES	81	1	0.11
5/06/22	INCD-64967-a	Overload	Thermal Overload	YES	744	2	0.97
9/06/22	INCD-65204-a	Asset failure	Age	YES	9	1	0.01
20/06/22	INCD-65624-a	Unknown		NO	0	396	0.00
20/06/22	INCD-65630-a	Animal	Bird or Animal	YES	778	2	1.01
21/06/22	INCD-65685-a	Vegetation	Object on Line	YES	1860	5	2.42
23/06/22	INCD-65750-a	Other	Age	YES	158	1	0.21

Date	Incident Number	Cause	Cause Description	Sustained ?	CMOS	Customer Count	Feeder USAIDI
14/07/22	INCD-67537-a	Animal	Bird or Animal	NO	0	4	0.00
20/07/22	INCD-67609-a	Unknown		NO	0	5	0.00
20/07/22	INCD-67611-a	Vegetation	Tree/Bark	YES	270	1	0.35
4/08/22	INCD-68835-a	Weather	Extreme Weather	YES	6641	29	8.65
4/08/22	INCD-69004-a	Vegetation	Tree/Bark	YES	410	5	0.53
22/08/22	INCD-71297-a	Vegetation	Public Tree Branch Inside Clearance	YES	1615	5	2.10
2/09/22	INCD-72670-a	Overload	Thermal Overload	YES	215	1	0.28
2/09/22	INCD-72675-a	Overload	Corrosion	YES	143	1	0.19
3/09/22	INCD-72830-a	Vegetation	Corrosion	YES	1339	5	1.74
4/09/22	INCD-72852-a	Unknown		NO	0	714	0.00
5/09/22	INCD-28589-b	Unknown		NO	0	5	0.00
5/09/22	INCD-28596-b	Unknown		NO	0	5	0.00
5/09/22	INCD-72889-a	Unknown		NO	0	5	0.00
5/09/22	INCD-72907-a	Unknown		NO	0	5	0.00
5/09/22	INCD-72935-a	Unknown		NO	0	5	0.00
7/09/22	INCD-73007-a	Animal	Bird or Animal	YES	212	1	0.28
9/09/22	INCD-73078-a	Unknown		NO	0	5	0.00
10/09/22	INCD-73096-a	Unknown		NO	0	5	0.00
10/09/22	INCD-73098-a	Unknown		NO	0	5	0.00
10/09/22	INCD-73101-a	Unknown		NO	0	5	0.00
16/09/22	INCD-73338-a	Unknown		NO	0	394	0.00
16/09/22	INCD-73377-a	Animal	Bird or Animal	YES	4556	2	5.93
17/10/22	INCD-74528-a	Vegetation	Tree/Bark	NO	0	5	0.00
18/10/22	INCD-74573-a	Unknown	No Cause Found	YES	116	1	0.15
19/10/22	INCD-74615-a	Unknown		NO	0	396	0.00
31/10/22	INCD-75415-a	Unknown	Cause Not in List	NO	0	5	0.00
31/10/22	INCD-75424-a	Vegetation	Public Tree Branch Inside Clearance	YES	1855	5	2.42
1/11/22	INCD-75572-a	Vegetation	Public Tree Bark	YES	660	5	0.86
2/11/22	INCD-75668-a	Vegetation	Public Tree Branch Outside Clearance	YES	69714	397	90.77
7/11/22	INCD-34060-b	Animal	Bird or Animal	YES	100	1	0.13
7/11/22	INCD-75964-a	Unknown		NO	0	23	0.00
13/11/22	INCD-76425-a	Unknown		NO	0	398	0.00
14/11/22	INCD-76566-a	Animal	Bird or Animal	YES	18612	396	24.23
21/11/22	INCD-77113-a	Weather	Extreme Weather	NO	0	5	0.00
22/11/22	INCD-82479-a	Overload	Age	YES	82579	1	107.52
23/11/22	INCD-77454-a	Unknown		NO	0	396	0.00

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23/11/22	INCD-77465-a	Animal	Bird or Animal	YES	892	2	1.16
25/11/22	INCD-36218-b	Vegetation	Public Tree Branch Outside Clearance	YES	580	5	0.76
26/11/22	INCD-77655-a	Unknown		NO	0	397	0.00
4/12/22	INCD-77983-a	Unknown	Cause Not in List	NO	0	5	0.00
22/12/22	INCD-78907-a	Unknown	Cause Not in List	NO	0	5	0.00
22/12/22	INCD-78920-a	Weather	Lightning	NO	0	5	0.00
28/12/22	INCD-79563-a	Vegetation	Private Tree Bark	NO	0	39	0.00
28/12/22	INCD-79563-a	Vegetation	Private Tree Bark	YES	155222	678	202.11
13/01/23	INCD-81327-a	Animal	Bird or Animal	YES	264	1	0.34
13/01/23	INCD-81367-a	Unknown	Cause Not in List	YES	14	1	0.02
21/01/23	INCD-82907-a	Vegetation	Public Tree Bark	YES	502	1	0.65
22/01/23	INCD-83041-a	Weather	Extreme Weather	YES	105872	711	137.85
22/01/23	INCD-83108-a	Other	Extreme Weather	YES	3066	7	3.99
28/01/23	INCD-83932-a	Animal	Bird or Animal	YES	861	3	1.12
3/02/23	INCD-84862-a	Vegetation	Public Tree Branch Inside Clearance	YES	11795	348	15.36
4/02/23	INCD-84951-a	Animal	Bird or Animal	YES	715	5	0.93
17/02/23	INCD-86476-a	Overload	Thermal Overload	YES	6	1	0.01
17/02/23	INCD-86482-a	Weather	Extreme Weather	YES	70	1	0.09
17/02/23	INCD-86586-a	Unknown		NO	0	393	0.00
17/02/23	INCD-86602-a	Weather	Lightning	YES	361	1	0.47
17/02/23	INCD-86705-a	Weather	Lightning	YES	1217	1	1.58
17/02/23	INCD-86706-a	Overload	Age	YES	1512	1	1.97
17/02/23	INCD-86709-a	Weather	Lightning	YES	1584	1	2.06
18/02/23	INCD-86715-a	Other	Cause Not in List	YES	3546	394	4.62
20/02/23	INCD-86877-a	Animal	No Cause Found	YES	1872	11	2.44
23/02/23	INCD-87758-a	Asset failure	Age	YES	4320	1	5.63
3/03/23	INCD-88441-a	Unknown		NO	0	5	0.00
6/03/23	INCD-88708-a	Unknown		NO	0	5	0.00
6/03/23	INCD-88709-a	Vegetation	Public Tree Branch Inside Clearance	YES	2815	5	3.67
9/03/23	INCD-89323-a	Other	Age	YES	10203	561	13.29
22/03/23	INCD-90973-a	Other	Cause Not in List	YES	158	1	0.21
22/03/23	INCD-90982-a	Other	Cause Not in List (Use Comments)	YES	202	1	0.26
24/03/23	INCD-91251-a	Unknown	Cause Not in List	YES	364	1	0.47
29/03/23	INCD-92031-a	Overload	No Cause Found	YES	851	1	1.11
14/04/23	INCD-93651-a	Unknown	No Cause Found	YES	28	1	0.04
22/04/23	INCD-94457-a	Unknown	No Cause Found	YES	470	1	0.61

Date	Incident Number	Cause	Cause Description	Sustained ?	CMOS	Customer Count	Feeder USAIDI
25/04/23	INCD-94565-a	Asset failure	Age	YES	67958	561	88.49
26/04/23	INCD-94604-a	Vegetation	Public Tree Bark	YES	145	1	0.19
26/04/23	INCD-94611-a	Animal	Bird or Animal	YES	892	1	1.16
17/05/23	INCD-41110-b	Other	Cause Not in List	YES	5	1	0.01
25/05/23	INCD-95785-a	Unknown	Cause Not in List	YES	15	1	0.02
25/05/23	INCD-95814-a	Unknown	No Cause Found	YES	1267	1	1.65
1/06/23	INCD-96029-a	Vegetation	Public Tree Bark	NO	0	794	0.00
2/06/23	INCD-96112-a	Third party	Age	YES	940	1	1.22
9/06/23	INCD-96363-a	Third party	Object on Line	YES	5113	724	6.66
9/06/23	INCD-96364-a	Vegetation	Tree/Bark	YES	1845	5	2.40
15/06/23	INCD-43829-b	Asset failure	External Fault	YES	180	4	0.23
16/06/23	INCD-96607-a	Unknown	Cause Not in List	YES	35	1	0.05
17/06/23	INCD-96674-a	Vegetation	Public Tree Branch Inside Clearance	YES	1035	5	1.35
19/06/23	INCD-96748-a	Vegetation	Tree/Bark	YES	1811	5	2.36
25/06/23	INCD-97372-a	Unknown		NO	0	5	0.00
2/07/23	INCD-97936-a	Unknown		NO	0	5	0.00
8/07/23	INCD-98159-a	Vegetation	Tree/Bark	YES	2170	5	2.83
13/07/23	INCD-98392-a	Unknown	Cause Not in List	YES	52	1	0.07
14/07/23	INCD-98463-a	Unknown		NO	0	5	0.00
16/07/23	INCD-98508-a	Unknown		NO	0	5	0.00
16/07/23	INCD-98511-a	Unknown		NO	0	5	0.00
16/07/23	INCD-98513-a	Unknown		NO	0	5	0.00
18/07/23	INCD-98579-a	Unknown		NO	0	5	0.00
18/07/23	INCD-98584-a	Animal	Bird or Animal	NO	0	5	0.00
18/07/23	INCD-98598-a	Unknown		NO	0	5	0.00
19/08/23	INCD-101255-U	Vegetation	Tree/Bark	YES	62222	398	81.02
7/09/23	INCD-102864-U	Unknown		NO	0	5	0.00
7/09/23	INCD-102865-U	Unknown		NO	0	5	0.00
8/09/23	INCD-102986-U	Vegetation	Tree/Bark	YES	12751	724	16.60
8/09/23	INCD-103010-U	Unknown		NO	0	5	0.00
5/10/23	INCD-105481-U	Unknown	No Cause Found	YES	117	1	0.15
12/10/23	INCD-106171-U	Unknown		NO	0	6	0.00
12/10/23	INCD-106176-U	Vegetation	Tree/Bark	YES	822	6	1.07
24/10/23	INCD-107464-U	Asset failure	External Fault	YES	3760	20	4.90
30/10/23	INCD-108143-U	Unknown	No Cause Found	YES	11646	725	15.16
8/11/23	INCD-109077-U	Vegetation	Public Tree Bark	YES	272	1	0.35

Date	Incident Number	Cause	Cause Description	Sustained ?	CMOS	Customer Count	Feeder USAIDI
8/11/23	INCD-109078-U	Vegetation	Public Tree Bark	YES	192	1	0.25
15/11/23	INCD-109965-U	Animal	Bird or Animal	YES	314	1	0.41
18/11/23	INCD-110400-U	Unknown		NO	0	725	0.00
22/11/23	INCD-110553-U	Unknown		NO	0	400	0.00
26/11/23	INCD-110834-U	Weather	Lightning	YES	112	2	0.15
29/11/23	INCD-111185-U	Unknown		NO	0	6	0.00
29/11/23	INCD-111223-U	Vegetation	Tree/Bark	YES	170	1	0.22
29/11/23	INCD-111232-U	Vegetation	Tree/Bark	YES	695	5	0.90
7/12/23	INCD-112386-U	Animal	Bird or Animal	YES	444	2	0.58
8/12/23	INCD-112478-U	Unknown		NO	0	400	0.00
8/12/23	INCD-112505-U	Asset failure	Age	YES	760	5	0.99
8/12/23	INCD-112548-U	Asset failure	Age	YES	1995	399	2.60
10/12/23	INCD-112817-U	Weather	Lightning	YES	126	2	0.16
16/12/23	INCD-114039-U	Vegetation	Public Tree Branch Outside Clearance	NO	0	1360	0.00
16/12/23	INCD-114039-U	Vegetation	Public Tree Branch Outside Clearance	YES	14870	46	19.36
17/12/23	INCD-114118-U	Vegetation	Public Tree Branch Inside Clearance	YES	3282	6	4.27
19/12/23	INCD-114396-U	Unknown		NO	0	24	0.00
2/01/24	INCD-116029-U	Vegetation	Tree/Bark	YES	185188	725	241.13
16/01/24	INCD-118099-U	Unknown	No Cause Found	YES	22537	727	29.35
18/01/24	INCD-118219-U	Animal	Bird or Animal	YES	58	1	0.08
2/02/24	INCD-119764-U	Asset failure	Age	YES	118	1	0.15
7/02/24	INCD-120394-U	Third party	Vehicle/Third Party	YES	82187	727	107.01
13/02/24	INCD-121493-U	Asset failure	Age	NO	0	403	0.00
13/02/24	INCD-121493-U	Asset failure	Age	YES	1209404	726	1,574.74
13/02/24	INCD-123161-U	Animal	Bird or Animal	YES	4935	3	6.43
19/02/24	INCD-123116-U	Asset failure	Age	YES	7	1	0.01
9/03/24	INCD-125482-U	Weather	Extreme Weather	YES	5436	6	7.08
2/04/24	INCD-128818-U	Weather	Lightning	NO	0	402	0.00
2/04/24	INCD-128818-U	Weather	Lightning	YES	300127	402	390.79
8/04/24	INCD-129461-U	Animal	Bird or Animal	YES	70	1	0.09
27/04/24	INCD-131697-U	Asset failure	Age	YES	240	2	0.31
8/05/24	INCD-132974-U	Unknown	No Cause Found	NO	0	1	0.00
9/05/24	INCD-133161-U	Planned	Normal Planned Outage	YES	433	1	0.56
10/05/24	INCD-133398-U	Third party	Vehicle/Third Party	YES	184	2	0.24
11/05/24	INCD-133456-U	Asset failure	Age	YES	930	6	1.21
11/06/24	INCD-136621-U	Vegetation	Tree/Bark	YES	64824	400	84.41

Date	Incident Number	Cause	Cause Description	Sustained ?	CMOS	Customer Count	Feeder USAIDI
12/06/24	INCD-136662-U	Vegetation	Public Tree Bark	YES	317	1	0.41
21/06/24	INCD-137251-U	Asset failure	Moisture Ingress	YES	112	1	0.15
27/06/24	INCD-137555-U	Unknown		NO	0	728	0.00
27/06/24	INCD-137560-U	Unknown		NO	0	400	0.00
11/07/24	INCD-108665-V	Other	Incorrect Voltage	YES	15	3	0.02
15/07/24	INCD-108947-V	Asset failure	Corrosion	NO	0	2	0.00
18/07/24	INCD-138915-U	Unknown	No Cause Found	YES	500	2	0.65
19/07/24	INCD-139069-U	Vegetation	Tree/Bark	YES	8	1	0.01
19/07/24	INCD-139096-U	Unknown		NO	0	684	0.00
19/07/24	INCD-139097-U	Vegetation	Tree/Bark	NO	0	1506	0.00
19/07/24	INCD-139097-U	Vegetation	Tree/Bark	YES	1866	6	2.43
26/08/24	INCD-142864-U	Unknown		NO	0	6	0.00
27/08/24	INCD-142958-U	Unknown		NO	0	747	0.00
27/08/24	INCD-142962-U	Vegetation	Public Tree Branch Outside Clearance	YES	1158	6	1.51
28/08/24	INCD-106887-W	Vegetation	Tree/Bark	YES	330	1	0.43
29/08/24	INCD-143500-U	Weather	Extreme Weather	YES	409	1	0.53
29/08/24	INCD-143564-U	Vegetation	Public Tree Branch Inside Clearance	YES	338286	403	440.48
30/08/24	INCD-143709-U	Vegetation	Tree/Bark	YES	38458	67	50.08
31/08/24	INCD-143854-U	Vegetation	Tree/Bark	NO	0	108	0.00
31/08/24	INCD-143854-U	Vegetation	Tree/Bark	YES	206816	707	269.29
2/09/24	INCD-107596-W	Weather	Extreme Weather	YES	326928	111	425.69
2/09/24	INCD-107601-W	Weather	Extreme Weather	YES	154080	40	200.63
2/09/24	INCD-144210-U	Vegetation	Tree/Bark	YES	91314	6	118.90
2/09/24	INCD-144220-U	Unknown		NO	0	624	0.00
2/09/24	INCD-144373-U	Unknown		NO	0	403	0.00
2/09/24	INCD-144385-U	Unknown		NO	0	403	0.00
2/09/24	INCD-144445-U	Other	Cause Not in List (Use Comments)	YES	7888	34	10.27
2/09/24	INCD-145410-U	Vegetation	Tree/Bark	YES	679808	188	885.17
2/09/24	INCD-145961-U	Weather	Extreme Weather	NO	0	387	0.00
2/09/24	INCD-145961-U	Weather	Extreme Weather	YES	1440414	387	1,875.54
2/09/24	INCD-146349-U	Weather	Extreme Weather	YES	7905	1	10.29
2/09/24	INCD-146350-U	Vegetation	Private Tree Branch Inside Clearance	YES	94620	15	123.20
5/09/24	INCD-146474-U	Vegetation	Tree/Bark	YES	330	2	0.43
6/09/24	INCD-146627-U	Weather	Extreme Weather	YES	135460	387	176.38
9/09/24	INCD-147087-U	Unknown	No Cause Found	YES	201	1	0.26
11/09/24	INCD-147543-U	Weather	Lightning	YES	210	2	0.27

Date	Incident Number	Cause	Cause Description	Sustained ?	CMOS	Customer Count	Feeder USAIDI
11/09/24	INCD-147544-U	Weather	Lightning	YES	119	1	0.15
17/09/24	INCD-148473-U	Animal	Bird or Animal	YES	205	1	0.27
21/09/24	INCD-149017-U	Weather	Extreme Weather	YES	138	1	0.18
28/09/24	INCD-149721-U	Animal	Bird or Animal	YES	86	1	0.11
14/10/24	INCD-150590-U	Unknown	No Cause Found	YES	388	2	0.51
16/10/24	INCD-150723-U	Unknown	No Cause Found	NO	0	40	0.00
16/10/24	INCD-150723-U	Unknown	No Cause Found	YES	221645	688	288.60
18/10/24	INCD-150901-U	Unknown		NO	0	402	0.00
17/11/24	INCD-153436-U	Vegetation	Public Tree Branch Inside Clearance	YES	12263	6	15.97
16/12/24	INCD-155222-U	Unknown	Cause Not in List	YES	5400	6	7.03
23/12/24	INCD-155920-U	Unknown		NO	0	402	0.00
26/12/24	INCD-156247-U	Weather	Extreme Weather	YES	4626	6	6.02
10/01/25	INCD-114234-W	Asset failure	Component Failure	YES	1092	6	1.42
12/01/25	INCD-157356-U	Weather	Lightning	YES	3140	10	4.09
13/01/25	INCD-157444-U	Weather	Lightning	YES	468	1	0.61
15/01/25	INCD-157816-U	Vegetation	Tree/Bark	YES	1464	6	1.91
17/01/25	INCD-114843-W	Asset failure	Hang Up	YES	4	1	0.01
24/01/25	INCD-158445-U	Asset failure	Corrosion	YES	119	1	0.15
30/01/25	INCD-158880-U	Unknown	Cause Not in List	YES	16	1	0.02
31/01/25	INCD-116117-W	Other	Fire	YES	77	1	0.10
27/02/25	INCD-161722-U	Asset failure	Age	YES	122	1	0.16
16/03/25	INCD-162827-U	Vegetation	Public Tree Bark	YES	780	6	1.02
16/03/25	INCD-162859-U	Unknown		NO	0	6	0.00
16/03/25	INCD-162882-U	Unknown		NO	0	403	0.00
20/03/25	INCD-113569-V	Vegetation	Public Tree Bark	YES	145	1	0.19
20/03/25	INCD-163195-U	Network business	Inter distributor connection failure	YES	306	1	0.40
30/03/25	INCD-163542-U	Unknown		NO	0	6	0.00
30/03/25	INCD-163560-U	Vegetation	Public Tree Branch Outside Clearance	YES	45301	402	58.99
30/03/25	INCD-163574-U	Unknown		NO	0	402	0.00
30/03/25	INCD-163575-U	Unknown		NO	0	402	0.00
30/03/25	INCD-163578-U	Unknown		NO	0	402	0.00
7/04/25	INCD-163908-U	Animal	Bird or Animal	YES	750	2	0.98
3/05/25	INCD-165832-U	Asset failure	Age	YES	188	2	0.24
5/05/25	INCD-165911-U	Asset failure	Corrosion	YES	2318	30	3.02
8/06/25	INCD-168599-U	Unknown		NO	0	402	0.00
8/06/25	INCD-168600-U	Vegetation	Public Tree Bark	NO	0	232	0.00

Date	Incident Number	Cause	Cause Description	Sustained ?	CMOS	Customer Count	Feeder USAID
8/06/25	INCD-168600-U	Vegetation	Public Tree Bark	YES	47662	402	62.06
23/06/25	INCD-169444-U	Unknown		NO	0	402	0.00
24/06/25	INCD-169469-U	Unknown		NO	0	402	0.00

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