June Storms – Asset Replacement

Data Source

- SAP
- EDPR asset replacement list
- DOMS
- EDPR Unit rates document Issue 2

General Methodology

- Asset Insight Team obtained all work orders that are related to the June 2021 Storm
- Identify asset replacement workorders from the assembly and operation codes
- Overlay the asset replacement list from the workorders with the EDPR replacement list
- Check whether these replaced assets due to the storm were included in the EDPR submission

Findings

Pole

In the EDPR submission, pole end of life replacement likelihood is estimated by their species, age at inspection, location, and service status. The EDPR poles replacement volumes are forecast by summating the end-of-life replacement likelihoods for each pole.

From the storm pole replacement workorders, it is estimated that [C-I-C] poles were replaced based on their assembly and operation codes. The last inspection date of these poles was obtained from SAP and their next inspection date is calculated.

Based on the poles' species, age at next inspection, next inspection year, service status and location, count of storm replaced pole that were included in the EDPR submission is estimated.

It is estimated that based on the sum of the likelihoods for the [C-I-C] poles replaced, that only a volume of [C-I-C] pole (POLE LV SIM) would have occurred during the EDPR period. The unit rate of the LV SIM pole is [C-I-C] per pole

Service

It is found that [C-I-C] service lines that were replaced in the storm were included in the EDPR submission.

The unit rate in the EDPR was [C-I-C] per service.

Line Fuses

No stand-alone fuse replacement in the storm is overlapped with the EDPR EDO replacement submission.

Conductor

It is found that [C-I-C] spans (estimated length: [C-I-C], material: steel) replaced in the storm were included in the EDPR submission. The unit rate is [C-I-C] per km.

Distribution Transformer

No DT replacement due to the storm is included in the EDPR submission.

Crossarm

In the EDPR submission, the volume of crossarms' condition-based replacement is calculated as:

Estimated EDPR replacement volume =

[C-I-C]

It is found that [C-I-C] crossarms replaced due to the storm, were also included in the EDPR submission.

Their conditions are tabulated as below:

Condition	Voltage	Count of Crossarm
C3	HV	[C-I-C]
	LV	[C-I-C]
C4	HV	[C-I-C]
	LV	[C-I-C]
C5	LV	[C-I-C]
Grand Total		[C-I-C]

Based on their condition, the total volume of replacement is estimated:

[C-I-C]

In terms of the replacement cost:

Voltage	Unit Rate
HV	[C-I-C]
LV	[C-I-C]

Total Replacement cost =

[C-I-C] = $35,559.50

Overall Summary

Assets that were replaced due to the storm and included in the EDPR submission:

	Unit rate	Volume	Total
Poles	[C-I-C]	[C-I-C]	$11,800
Services	[C-I-C]	[C-I-C]	$5,076.60
Conductor	[C-I-C]	[C-I-C]	$60,983.69
Fuses	0	0	0
Distribution Transformers	0	0	0
Crossarms	[C-I-C]	[C-I-C]	$35,559.50
Total			$113,419.79