

Southern California Edison
2023-WMPs – 2023-WMPs

DATA REQUEST SET T U R N - S C E - 0 0 2

To: TURN

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Job Title: Senior Manager

Received Date: 4/26/2023

Response Date: 5/1/2023

Question 01 :

Please provide data in SCE's possession that indicates the following:

- a. The SAIDI (System Average Interruption Duration Index) for the years 2018-2022 for underground distribution facilities;
- b. The MAIFI (Momentary Average Interruption Frequency Index) for the years 2018-2022 for underground distribution facilities;
- c. The SAIDI (System Average Interruption Duration Index) for the years 2018-2022 for overhead distribution facilities with covered conductor;
- d. The MAIFI (Momentary Average Interruption Frequency Index) for the years 2018-2022 for overhead distribution facilities with covered conductor;
- e. The SAIDI (System Average Interruption Duration Index) for the years 2018-2022 for overhead distribution facilities without covered conductor;
- f. The MAIFI (Momentary Average Interruption Frequency Index) for the years 2018-2022 for overhead distribution facilities without covered conductor.

Response to Question 01 :

- a. The SAIDI for all unplanned outages (including Major Event Days (MEDs)) for years 2018-2022 for underground distribution facilities are as follows:
 - 2018 – 23.4 minutes
 - 2019 – 27.7 minutes
 - 2020 – 24.8 minutes
 - 2021 – 29.1 minutes
 - 2022 – 29.4 minutes
- b. The MAIFI for all unplanned outages (including MEDs) for years 2018-2022 for underground distribution facilities are as follows:
 - 2018 – 0.10 interruptions per customer
 - 2019 – 0.12 interruptions per customer
 - 2020 – 0.10 interruptions per customer
 - 2021 – 0.12 interruptions per customer
 - 2022 – 0.12 interruptions per customer
- c. SCE's reliability reporting system does not have the ability to bifurcate outages on overhead facilities by those with or without covered conductor. Due to the lack of ability to perform

the requested calculation, SAIDI is being provided (including MEDs) for years 2018-2022 for overhead facilities that includes both areas with and without covered conductor. While SCE is deploying covered conductor in HFRA for purposes of wildfire risk mitigation, covered conductor has intrinsic reliability benefits as well. As mentioned in SCE's Track 4 General Rate Case filing in its Test Year 2021 GRC, SCE's fault data shows that circuits with fully covered conductor experience approximately 85% fewer faults caused by CFO compared to circuits with bare conductor.

- 2018 – 19.0 minutes
 - 2019 – 21.4 minutes
 - 2020 – 27.3 minutes
 - 2021 – 23.2 minutes
 - 2022 – 24.0 minutes
- d. SCE's reliability reporting system does not have the ability to bifurcate outages on overhead facilities by those with or without covered conductor. Due to the lack of ability to perform the requested calculation, MAIFI is being provided (including MEDs) for years 2018-2022 for overhead facilities that includes both areas with and without covered conductor.
- 2018 – 0.14 interruptions per customer
 - 2019 – 0.12 interruptions per customer
 - 2020 – 0.12 interruptions per customer
 - 2021 – 0.14 interruptions per customer
 - 2022 – 0.14 interruptions per customer
- e. As noted in the response for Question 01 c. and d., SCE's reliability reporting system does not have the ability to bifurcate outages on overhead facilities by those with or without covered conductor. The information available has already been provided as part of Question 01 c.
- f. As noted in the response for Question 01 c. and d., SCE's reliability reporting system does not have the ability to bifurcate outages on overhead facilities by those with or without covered conductor. The information available has already been provided as part of Question 01 d.