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East Bay Community Energy, IEPR Demand Forecast
Assumptions Narrative
April 15, 2019

Primary Assumptions for all forecast:

- Meter data used for 2018, and available meter data for 2019, forecasted for the rest of 2019 and throughout
- From 2021 to 2030 load adjustment percentage applied to 2020 data as the starting point and then each year onward, load loss percentage derived from EBCE's 2018 IRP and using the below assumptions (see 'For 2021-2030 forecast')
- 0.5% growth for customer count
- Forecasts for peak demand post-2020 and for residential and non-residential customers were not displayed due to uncertainty in the forecast affecting peak values
- Annual load forecasts are by calendar year

For 2019 and 2020 forecast:

Data source:

- Item17 interval data from PG&E for 2016, 2017 and part of 2018. Share My Data data from PG&E for part of 2018. Item16 billing summary from PG&E for 2016 and 2017. EBCE bill transactions for part of 2018. We used interval data from 2016, 2017 and 2018 and billing data from 2018 where available.

Weather normalization:

- Our forecasts are based on load profiles that use up to 3 years of data where available and create average weighting factors for each class, month, day-type and hour.

Customer Growth:

- We assume 0.5% growth customer count. This assumption was inherited from previous models.

Load Growth:

- We assume 0.5% growth for load. This assumption was inherited from previous models.

Customer Opt-out:

- The opt-out rate is based on load. Customers that have already opted out are accounted for and not included in our forecast.

Phased in customers:

- There are about 3500 NEM customers that will be rolled out by February 2020. The forecast includes that roll out. Our NEM customers are being rolled out in phases between April 2019 and February 2020. Our forecast accounts for this.

DER's (PV, EV, EE, etc.)

- There are no included assumptions for the DER's in the forecast

For 2021-2030 forecast

- An average of approximately 0.35% load loss over the entire 2021-2030 extended forecast
- Assumptions for factors affecting gross load are the following:
 - Cumulative EE penetration of 1.4% in 2021, rising to 4.3% by 2030
 - 3,425 incremental EVs in EBCE territory by 2021, rising to 25,000 by 2030. This is roughly equivalent to 1 million EVs in CAISO by 2030
 - Incremental BTM PV penetration of 38 MW in 2021, rising to 191 MW cumulative incremental penetration by 2030. Per EIA data, BTM PV has been growing about 30% per year in PG&E
- EIA data shows PG&E actual loads have declined ~ 1% annual from 2012-2018