

Load Forecast Model Development

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Resource Adequacy Planning

Planning Committee
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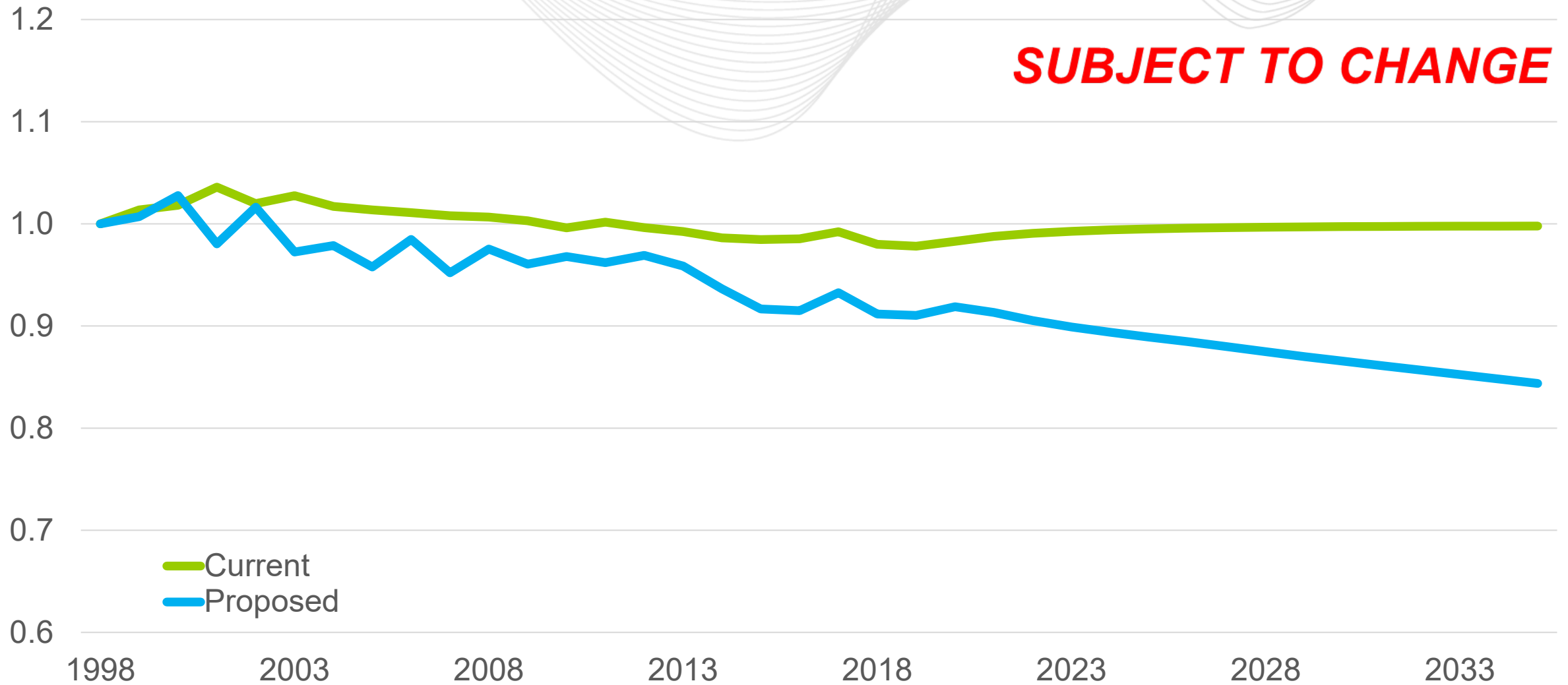
Annual Model Development

- Improvements to non-weather sensitive model to better align with underlying drivers and historical trends.
- Added Service Employment as an additional driver to Commercial Sector (in addition to already used working-age population).
- Additional model tweaks to reflect error trends and weather specification.



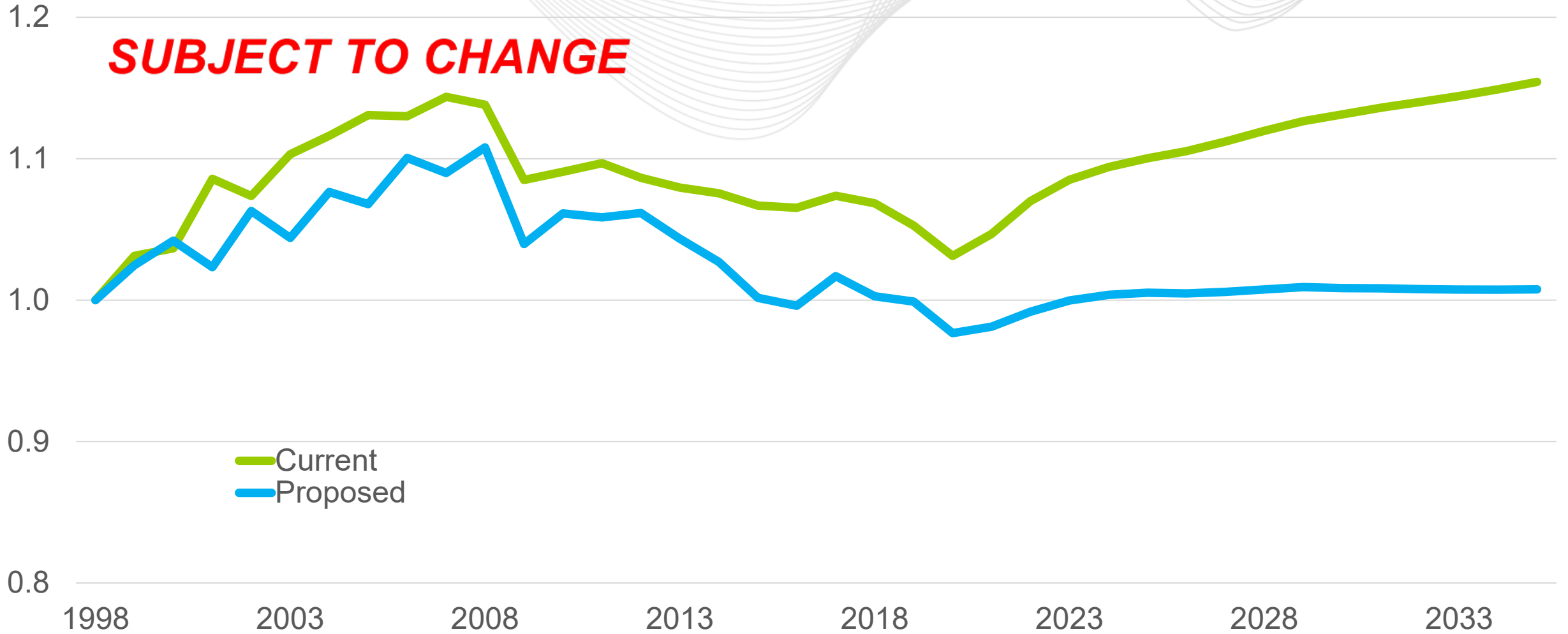
Non-Weather Sensitive Load Relative to Other End-Use Index (Driver)

SUBJECT TO CHANGE



Non-Weather Sensitive Load (1998=1.0)

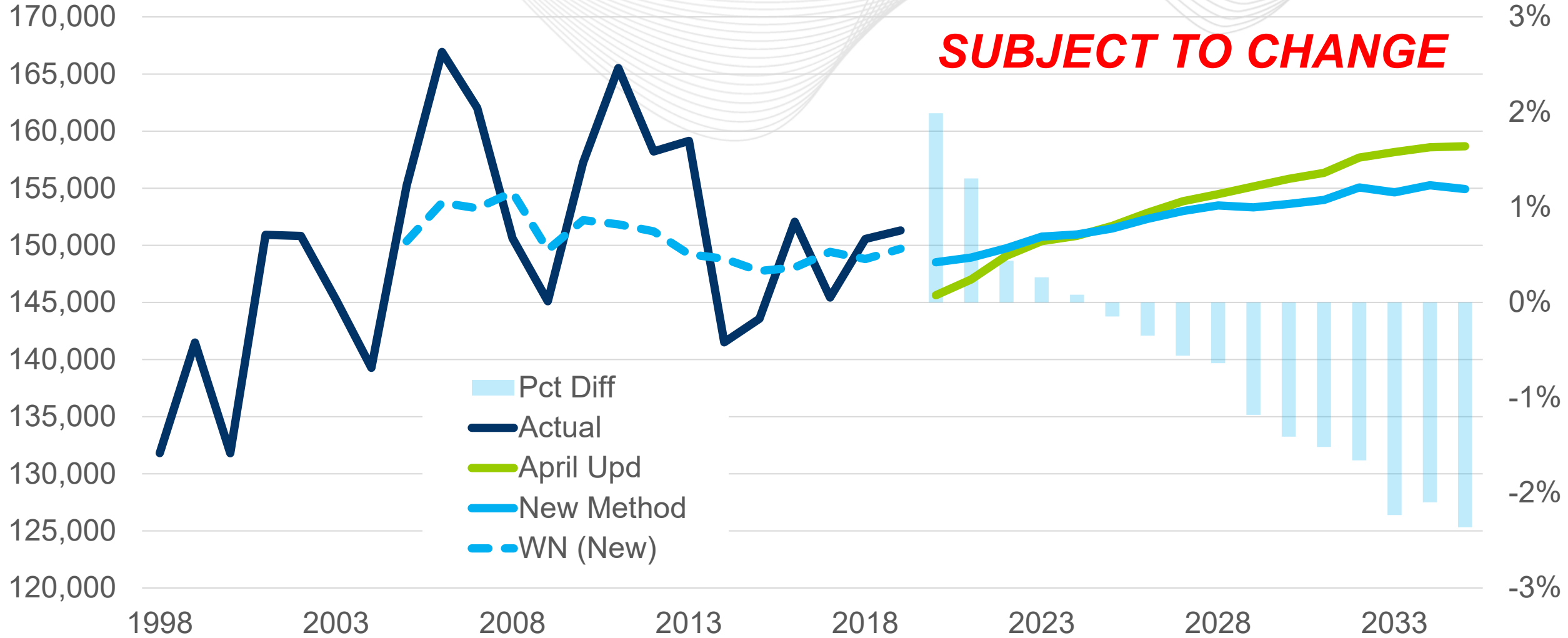
SUBJECT TO CHANGE



- Both forecasts use the same input data
 - ***April 2020 Economics***
 - 2019 End-Use data
 - 2019 BtM Solar Forecast
 - Weather Rotation 1994-2018
 - ***No Forecast Adjustments***
- Results are from a model in development. Meant to be illustrative.



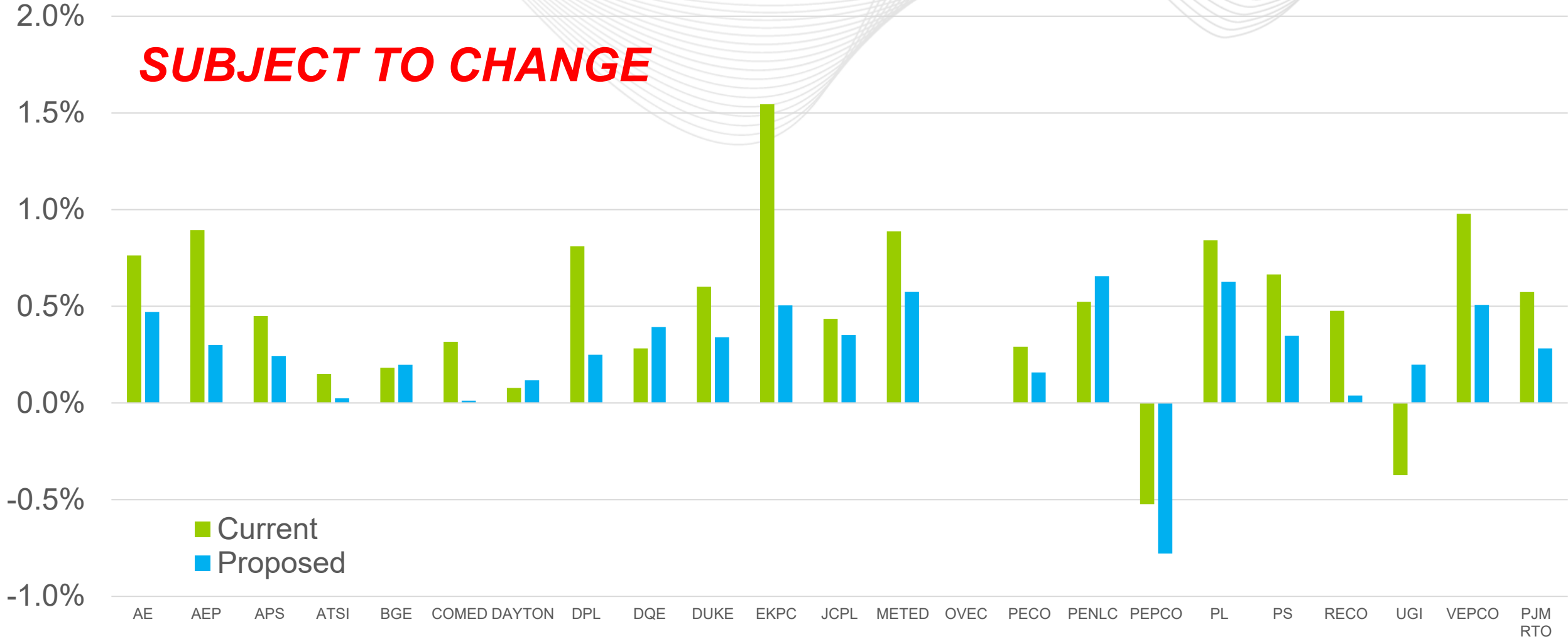
PJM RTO Summer Peak Forecast



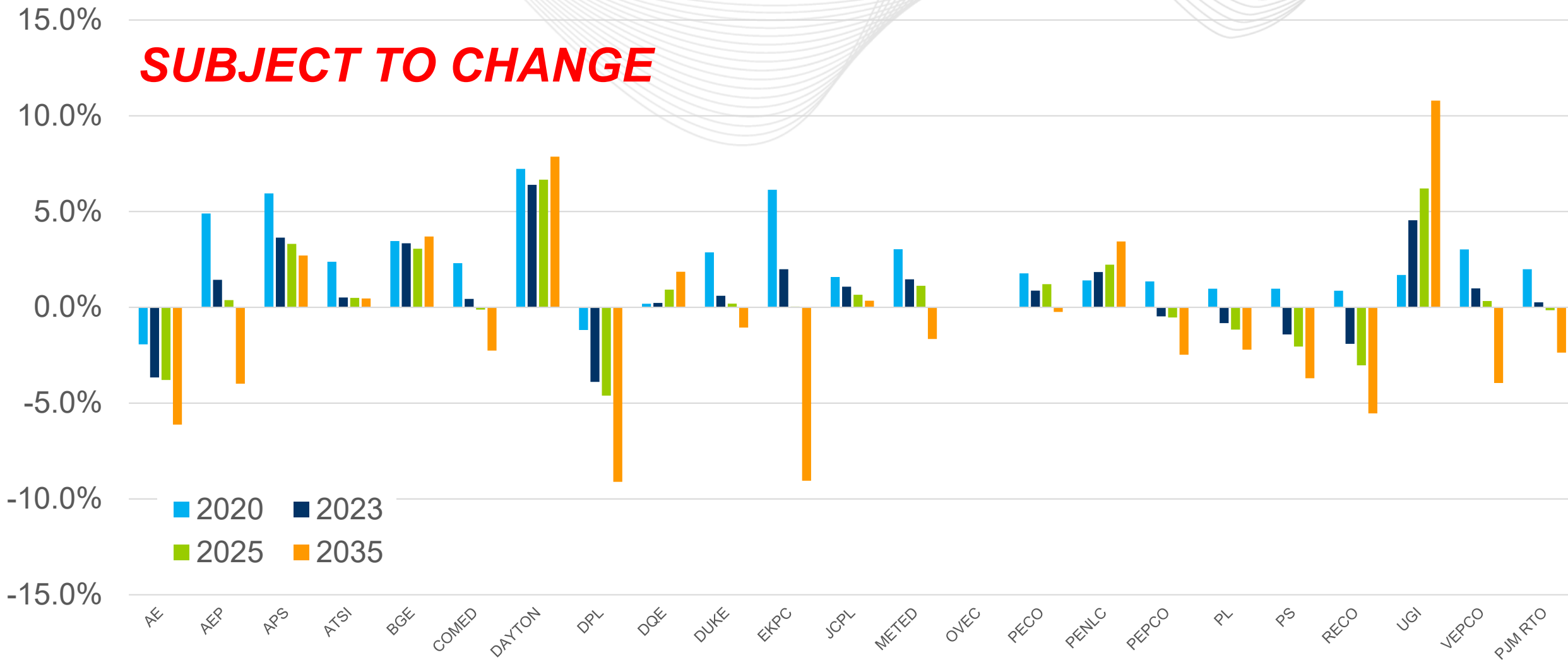


15-yr Summer Growth Rate Comparison

SUBJECT TO CHANGE



SUBJECT TO CHANGE



Addressing COVID-19

- COVID-19 has had a significant impact on load that extends beyond just pure economic impacts due to stay-at-home restrictions.
 - Reduction in non-weather sensitive load
 - Increase in weather sensitive load
- Uncertainty as to the extent these changes will persist.

- Model estimation period for 2021 Load Forecast will extend through August 31, 2020. Two paths:
 - Control: Limit the impact/eliminate of current situation on the assumption of future trends.
 - Option: Add variables to the model that mitigate the impact.
 - Option: Don't include the load data in the model.
 - Note: The forecast impacts of the pandemic would still be felt via economic forecast.
 - Status Quo: Do nothing additional.

- Load Analysis Subcommittee
 - Meeting scheduled for October 22, 2020
- 2021 Load Forecast
 - Review with Load Analysis Subcommittee in November
 - Review with Planning Committee in December
 - Final Report released late December

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Load Forecast



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