Resource Adequacy Slice-of-Day Implementation Workshops: RA Counting Rules for Solar

Presentation from SEIA

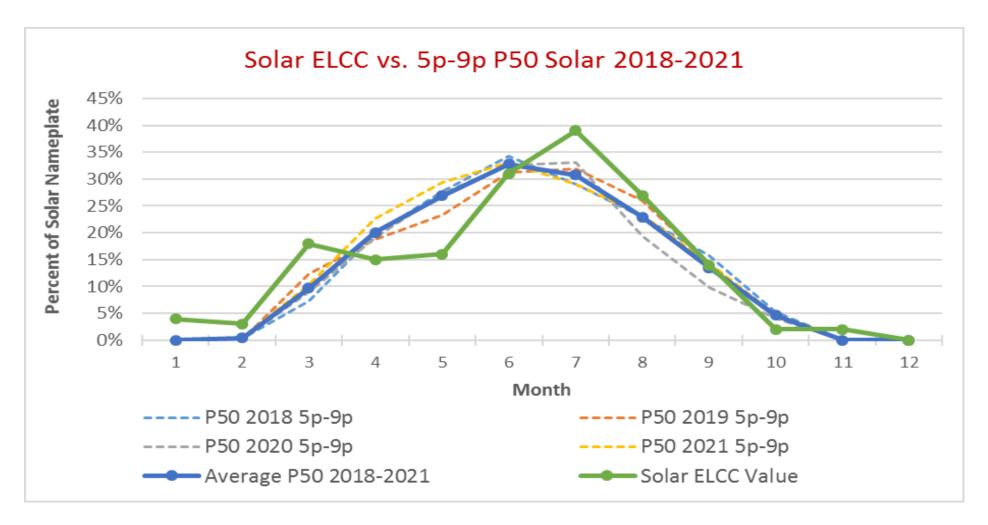
CPUC Docket R. 21-10-002

Tom Beach Crossborder Energy

July 27, 2022

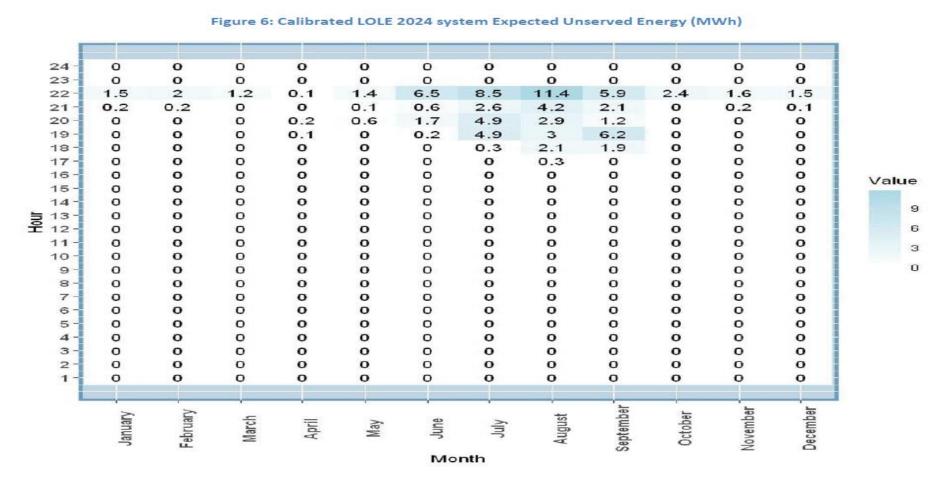
Solar Exceedance for Net Load Peak Hours (5p-9p)

SEIA/LSA/VS proposed use of P50 (50% exceedance) for solar



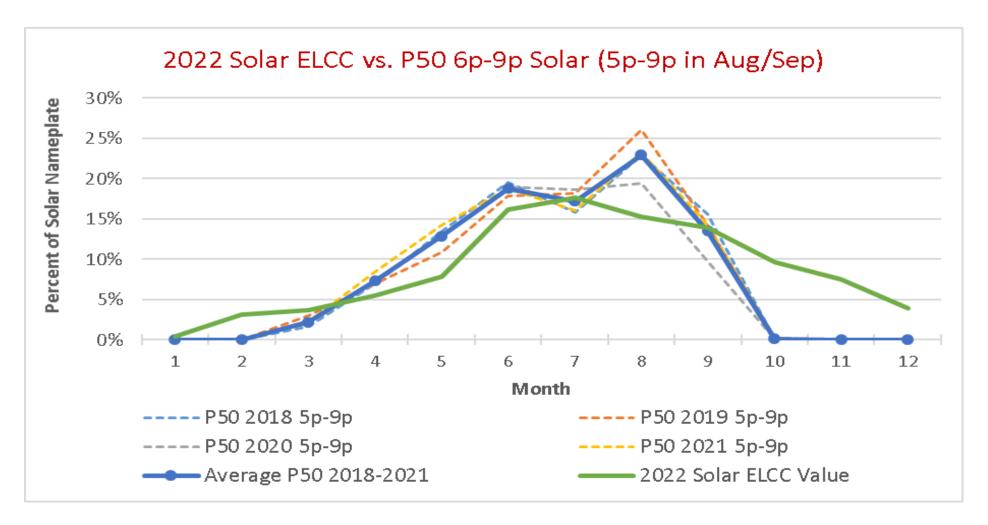
New LOLE / ELCC Study

 6p-9p are the solar production hours with significant EUE / LOLE, except for 5p-9p in August and September



Solar Exceedance vs. 2022 Solar ELCCs

• 50% exceedance solar output 6p-9p (5p-9p in August / September)



SEIA's Review of PG&E's Peak Day Approach

Necessary improvements:

- Use of historical solar output normalized for the amount of online solar capacity
- Focus on hours with non-zero EUE
- SEIA's review of PG&E's data with these changes indicates a solar exceedance in the range of 50% to 60% is reasonable.

Possible further improvements:

- Broader set of peak day data
- Fixed vs. tracking systems
- Regional solar insolation differences (coastal vs. inland)

Future research:

Impact of extended cloudy weather in winter months