2021 & 25 Draft LCR Study Results
Summary of Findings

Catalin Micsa
Senior Advisor Regional Transmission Engineer

Stakeholder Call
March 16, 2020
LCR Areas within CAISO
Input Assumptions, Methodology and Criteria

See October 31, 2019 stakeholder teleconference - for study assumptions, methodology and criteria. The latest information along with the 2021 LCR Manual can be found at: http://www.caiso.com/informed/Pages/StakeholderProcesses/LocalCapacityRequirementsProcess.aspx.

Transmission system configuration – all-projects with EDRO up to June 1, 2021
Generation – all-generation with COD up to June 1, 2021
Load Forecast – 1 in 10 local area peak (based on latest CEC forecast)
Criteria – most stringent of all mandatory standards (NERC, WECC, ISO)

Methodology
1. Maximize Imports Capability into the local area
2. Maintain path flows
3. Maintain deliverability for deliverable units
4. Load pocket – fix definition
Retain Deficiency Calculation

1. ISO has eliminated the “Deficiency” from the summary tables.
2. Due to stakeholder requests ISO decided to continue calculating “Deficiency”.
3. Still estimated by using the most effective resource.
4. Deficiency is only presented in the detailed section of the report
   • calculated vs. available NQC and,
   • calculated vs. available capacity at peak.
Major Changes from last year studies

1. New 2020 NQC data.
3. Total 2021 LCR capacity needed has increased by 507 MW or ~ 2.1%.
4. 2021 LCR needs decrease in: Big Creek/Ventura and San Diego due to load forecast decrease, LA Basin due to new transmission projects, Stockton due to changes in the LCR criteria, Kern due to decrease in available Qualifying Capacity, Fresno and Humboldt requirement is the same.
5. 2021 LCR needs increase in: North Coast/North Bay due to change in the LCR criteria, Bay Area and Sierra due to load forecast increase and change in the LCR criteria.
## 2021 Draft LCR Needs

<table>
<thead>
<tr>
<th>Local Area Name</th>
<th>QF/ Muni (MW)</th>
<th>Non-Solar (MW)</th>
<th>Solar (MW)</th>
<th>Total (MW)</th>
<th>Capacity Available at Peak (MW)</th>
<th>2021 LCR Need (MW)</th>
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</thead>
<tbody>
<tr>
<td>Humboldt</td>
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</table>
Major Changes from last year studies

1. Total 2025 LCR capacity need has increased by about 1622 MW or ~7.4%.

2. 2025 LCR needs decrease in: Big Creek/Ventura due to decrease in load forecast, Stockton due to new transmission projects and changes to the LCR criteria, San Diego due to load forecast decrease and new transmission projects, Humboldt requirement is the same.

3. 2025 LCR needs increase in: North Coast/North Bay and Fresno due to change in the LCR criteria, Bay Area, Sierra and Kern due to load forecast increase and changes to the LCR criteria, LA Basin due to load forecast increase.

Role and Purpose of sub-area LCR needs:
- Provide detail local procurement information
- Need to be satisfied in order to minimize ISO back-stop
- Sum of the parts may not equal the overall need
## 2025 Draft LCR Needs

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CPUC and the ISO have determined overall timeline
- Criteria, methodology and assumptions meeting Oct. 31, 2019
- Submit comments by November 14, 2019
- Posting of comments with ISO response by the December 12, 2019
- Base case development started in December 2019
- Receive base cases from PTOs January 2020
- Publish base cases January 15, 2020 – comments by Jan 29th
- Receive and incorporate CEC load forecast February 5-12th
- Draft study completed by March 9, 2020
- ISO Stakeholder meeting March 16, 2020 – comments by the 30th
- ISO receives new operating procedures March 30, 2020
- Validate op. proc. – publish draft final report April 6, 2020
- ISO Stakeholder call April 13, 2020 – comments by the 27th
- Final 2021 LCR report May 1, 2020
2020 ISO Procurement Schedule

Per ISO Tariff and BPM - overall timeline

- Final LCR Report May 1, 2020
- LSE self-guided local allocation; May-June, 2020
- Receive new CEC coincident load forecast June 30, 2020
- ISO or CPUC to send out final local allocation; middle of July, 2020
- For any current RMR resource; LSEs to submit showings by 9/6/2020
- ISO to decide on retaining units under RMR by October 1, 2020
- Final LSE showings TBD – Usually last week of October, 2020
- ISO to send a market notice out stating deficiencies in procurement – about 3 weeks after final showing - about November 21, 2020
- ISO receives additional showing (30 days after market notice)
- ISO to enter back-stop procurement for local reasons (if needed)
THANK YOU

Your comments and questions are welcome.

For written comments, please send to: RegionalTransmission@caiso.com

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