



2024 & 28 Draft LCR Study Results Summary of Findings

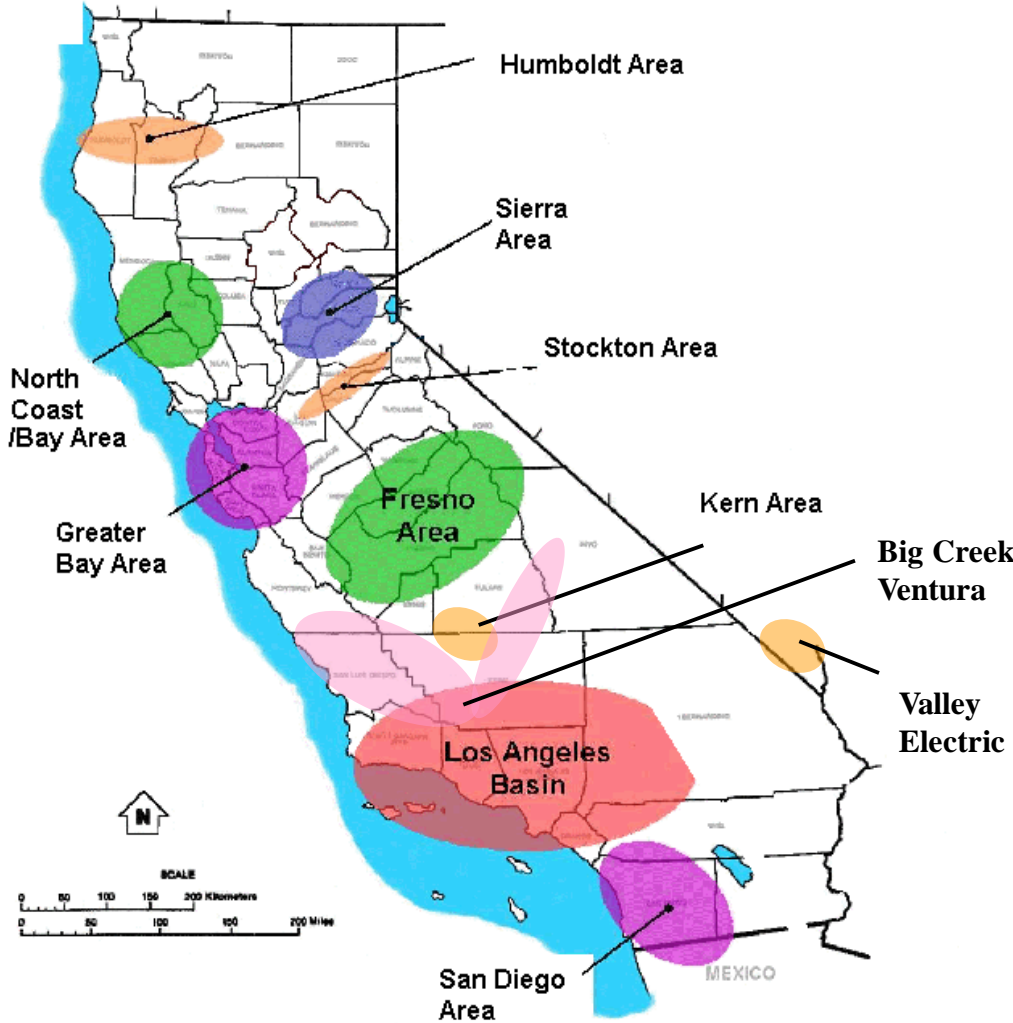
Catalin Micsa

Senior Advisor Regional Transmission Engineer

Stakeholder Call

March 9, 2023

LCR Areas within CAISO



Input Assumptions, Methodology and Criteria

See October 31, 2022 stakeholder teleconference - for study assumptions, methodology and criteria. The latest information along with the 2024 LCR Manual can be found at:

<https://stakeholdercenter.caiso.com/RecurringStakeholderProcesses/Local-capacity-requirements-process-2024>.

Transmission system configuration – all-projects with EDRO up to June 1, 2024

Generation – all-generation with COD up to June 1, 2024

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

Major Changes from last year studies

1. **Mostly new NQC data – triggers small changes to “deficient” areas.**
2. **LCR results herein use CEC load forecast posted on 2/3/2023.**
3. **Total 2024 LCR capacity needed has decreased by 3,334 MW or ~ 13.1%.**
4. **2024 LCR needs decrease in: Humboldt, Big Creek/Ventura** due to load forecast decrease, **Kern** due to decrease in resources NQC values, **LA Basin** and **San Diego/Imperial Valley** due to new transmission projects.
5. **2024 LCR needs increase in: Bay Area** and **Fresno** due to load forecast increase, **North Coast/North Bay** due to a different load pattern, **Sierra** due to change in resources NQC values, **Stockton** due to new resources being available.

2024 Draft LCR Needs

	August Qualifying Capacity				Capacity Available at Peak	2024 LCR Need
Local Area Name	QF/ Muni (MW)	Non-Solar (MW)	Solar (MW)	Total (MW)	Total (MW)	Capacity Needed
Humboldt	0	176	0	176	176	133
North Coast/ North Bay	137	852	0	989	989	983
Sierra	1197	686	0	1883	1883	1212*
Stockton	130	607	7	744	736	744*
Greater Bay	617	7327	4	7948	7944	7329*
Greater Fresno	206	2740	181	3127	2949	2077*
Kern	10	365	43	418	375	418*
Big Creek/ Ventura	407	3101	475	3983	3508	1285
LA Basin	1179	8532	10	9721	9721	4413
San Diego/ Imperial Valley	2	5540	196	5738	5542	2835
Total	3885	29926	916	34727	33823	21429

Major Changes from last year studies

1. **Total 2028 LCR capacity need has decreased by about 265 MW or ~1.1%.**
2. **2028 LCR needs decrease in: North Coast/North Bay** due to different binding constraint, **Bay Area** and **LA Basin** due to new transmission projects.
3. **2028 LCR needs increase in: Humboldt, Fresno** due to load forecast increase, **Big Creek/Ventura** due to load distribution change within the area, **Sierra** due to change in resources NQC values, **Stockton** due to new resources being available, **Kern** and **San Diego/Imperial Valley** due to load forecast increase and a different binding constraint.

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

2028 Draft LCR Needs

	August Qualifying Capacity				Capacity Available at Peak	2028 LCR Need
Local Area Name	QF/ Muni (MW)	Non-Solar (MW)	Solar (MW)	Total (MW)	Total (MW)	Capacity Needed
Humboldt	0	176	0	176	176	148
North Coast/ North Bay	137	852	0	989	989	891
Sierra	1197	686	0	1883	1883	1415*
Stockton	106	653	7	766	759	766*
Greater Bay	617	7327	4	7948	7944	6261
Greater Fresno	206	2740	181	3127	2949	2728*
Kern	10	365	43	418	375	418
Big Creek/ Ventura	407	3321	475	4203	3796	1216
LA Basin	1179	7164	10	8353	8353	5940
San Diego/ Imperial Valley	2	5540	196	5738	5542	3575
Total	3861	28824	916	33601	32766	23358

Near-Term LCR Study Schedule

CPUC and the ISO have determined overall timeline

- Criteria, methodology and assumptions meeting Oct. 31, 2022
- Submit comments by November 14, 2022
- Base case development started in December 2022
- Receive base cases from PTOs January 2023
- Publish base cases January 13, 2023 – comments by Jan 30th
- Receive and incorporate CEC load forecast February 1-4th
- Draft study completed by March 7, 2023
- ISO Stakeholder meeting March 9, 2023 – comments by the 23rd
- ISO receives new operating procedures March 23, 2023
- Validate op. proc. – publish draft final report April 4, 2023
- ISO Stakeholder call April 11, 2023 – comments by the 21st
- Final 2024 LCR report May 1, 2023



2023 ISO Procurement Schedule

Per ISO Tariff and BPM - overall timeline

- Final LCR Report May 1, 2023
- LSE self-guided local allocation; May-June, 2023
- Receive new CEC coincident load forecast June 30, 2023
- ISO or CPUC to send out final local allocation; middle of July, 2023
- For any current RMR resource; LSEs to submit showings by 9/1/2023
- ISO to decide on retaining units under RMR by October 1, 2023
- Final LSE showings TBD – Usually last week of October, 2023
- ISO to send a market notice out stating deficiencies in procurement – about 3 weeks after final showing - about November 21, 2023
- ISO receives additional showing (30 days after market notice)
- ISO to enter back-stop procurement for local reasons (if needed)