



2024 & 28 Final LCR Study Results Summary of Findings

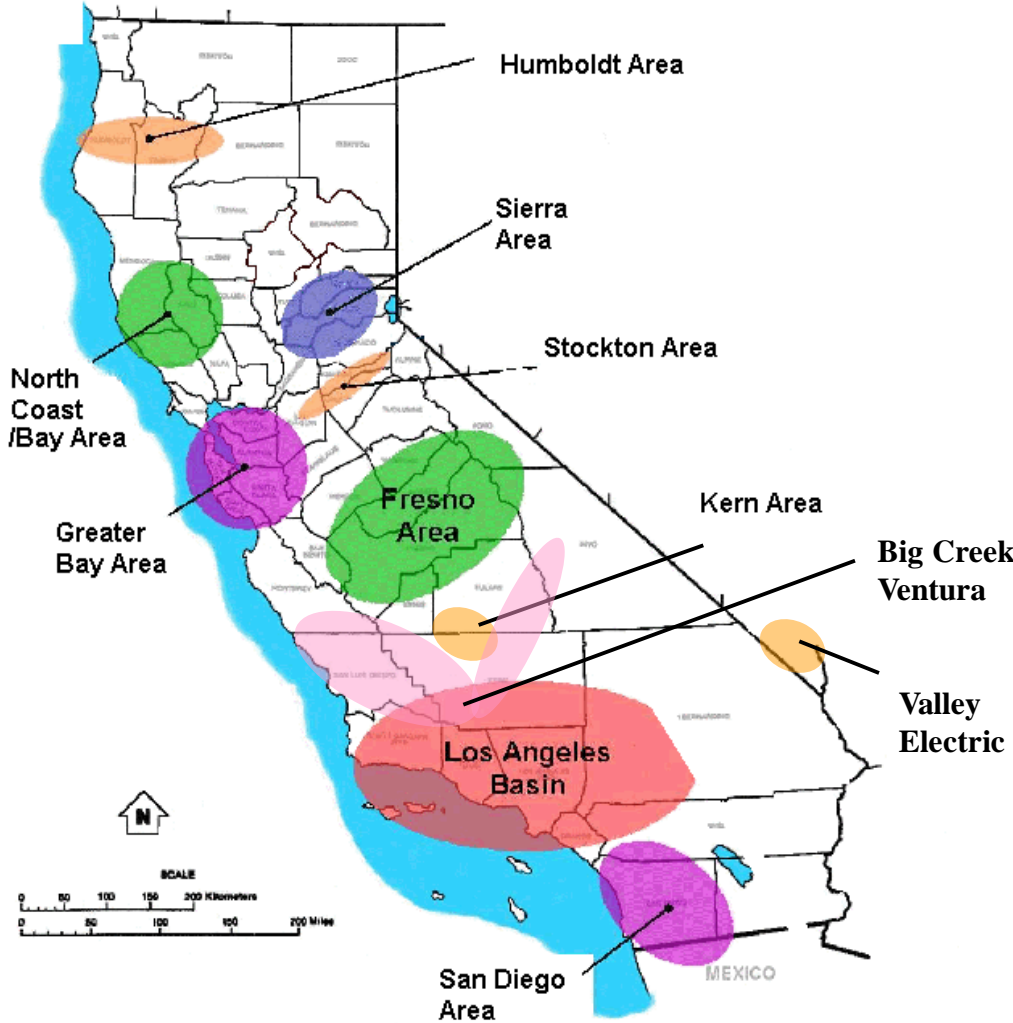
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Stakeholder Call

April 12, 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. **Updated NQC data – small changes to “deficient” areas.**
2. **LCR results use CEC load forecast posted on 2/3/2023.**
3. **Total 2024 LCR capacity needed has decreased by 3,369 MW or ~ 13.2%.**
4. **2024 LCR needs decrease in: Humboldt** due to load forecast decrease, **Big Creek/Ventura** due to lower flows from Sylmar because Sylmar Bank E is out of service, **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 Final 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	613	7	750	743	750*
Greater Bay	617	7327	4	7948	7944	7329*
Greater Fresno	206	2740	181	3127	2946	2028*
Kern	10	374	43	427	384	427*
Big Creek/ Ventura	406	3446	265	4117	4117	1971
LA Basin	1179	7164	10	8353	8353	4413
San Diego/ Imperial Valley	2	5204	182	5388	5206	2834
Total	3884	28582	692	33158	32741	22080

Major Changes from last year studies

1. **Total 2028 LCR capacity need has decreased by about 250 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 and Big Creek/Ventura** due to load forecast increase, **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 Final 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	659	7	772	765	772*
Greater Bay	617	7327	4	7948	7944	6261
Greater Fresno	206	2740	181	3127	2946	2728*
Kern	10	374	43	427	384	427
Big Creek/ Ventura	406	3446	265	4117	4117	1216
LA Basin	1179	7164	10	8353	8353	5940
San Diego/ Imperial Valley	2	5204	182	5388	5206	3575
Total	3860	28628	692	33180	32763	23373

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 5, 2023
- ISO Stakeholder call April 12, 2023 – comments by the 19th
- 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)