



California ISO

2020 & 24 Final LCR Study Results Summary of Findings

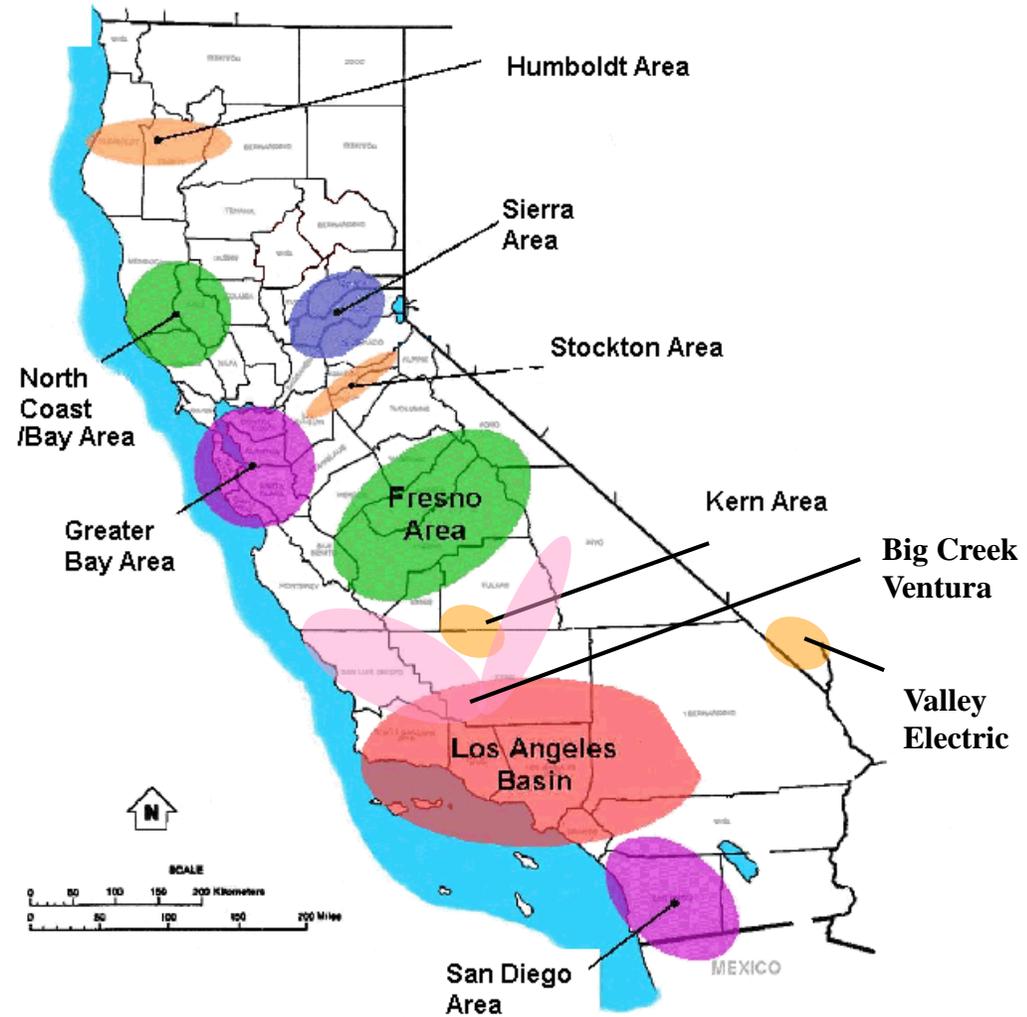
Catalin Micsa

Senior Advisor Regional Transmission Engineer

Stakeholder Call

April 10, 2019

LCR Areas within CAISO



Input Assumptions, Methodology and Criteria

See October 31, 2018 stakeholder teleconference - for study assumptions, methodology and criteria. The latest information along with the 2020 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, 2020

Generation – all-generation with COD up to June 1, 2020

Load Forecast – 1 in 10 local area peak (based on latest CEC forecast)

Criteria – see report for details

Methodology

1. Maximize Imports Capability into the local area
2. Maintain path flows
3. Maintain deliverability for deliverable units
4. Load pocket – fix definition
5. Performance levels B & C (if equal category B is most stringent)

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 2019 NQC data.**
2. **LCR results herein use CEC load forecast posted on 2/5/2019.**
3. **Total 2020 LCR capacity needed has decreased by 961 MW or ~ 3.9%.**
4. **2020 LCR needs decrease in: Humboldt, Big Creek/Ventura and LA Basin** due to load forecast decrease, **Sierra** due to new transmission projects, **San Diego** due to unavailability of solar at 8:00 PM and a combination of mitigation measures evaluated.
5. **2020 LCR needs increase in: North Coast/North Bay, Bay Area, Stockton, Fresno and Kern** due to load forecast increase.

2020 Final LCR Needs

Local Area Name	Qualifying Capacity				Capacity Available at Peak	2020 LCR Need Category B	2020 LCR Need Category C
	QF/ Muni (MW)	Non-Solar (MW)	Solar (MW)	Total (MW)	Total (MW)	Capacity Needed	Capacity Needed
Humboldt	0	197	0	197	197	83	130
North Coast/ North Bay	117	715	1	833	832	742	742
Sierra	1168	986	6	2160	2154	1091	1764*
Stockton	155	497	1	653	652	603*	629*
Greater Bay	617	6438	12	7067	7067	3970	4550
Greater Fresno	222	2583	372	3177	2770	1694	1694*
Kern	8	354	103	465	362	169*	465*
Big Creek/ Ventura	405	4389	305	5099	5099	2154	2410*
LA Basin	1344	9078	17	10439	10104	7364	7364
San Diego/ Imperial Valley	4	3891	439	4334	3895	3895	3895
Total	4040	29128	1256	34424	33132	21765	23643

Major Changes from last year studies

1. **Total 2024 LCR capacity need has decreased by about 1271 MW or ~5.5%.**
2. **2024 LCR needs decrease in: Humboldt, Big Creek/Ventura and LA Basin** due to decrease in load forecast, **Sierra and Kern** due to new transmission projects, **Bay Area** due to load forecast decrease and new transmission projects, **San Diego** due to Unavailability of solar at 8:00 PM and a combination of mitigation measures evaluated.
3. **2024 LCR needs increase in: North Coast/North Bay** due to load forecast increase and decrease in requirements in the Bay Area (Pittsburg-Ames-Oakland sub-area), **Stockton and Fresno** 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

2024 Final LCR Needs

Local Area Name	Qualifying Capacity				Capacity Available at Peak	2024 LCR Need Category B	2024 LCR Need Category C
	QF/ Muni (MW)	Non-Solar (MW)	Solar (MW)	Total (MW)	Total (MW)	Capacity Needed	Capacity Needed
Humboldt	0	197	0	197	197	83	132
North Coast/ North Bay	118	715	1	833	832	706	706
Sierra	1168	986	6	2160	2154	788	1304
Stockton	137	680	1	699	698	388*	675*
Greater Bay	617	7011	12	7640	7640	3494	4395
Greater Fresno	222	2733	393	3348	2920	1711	1711*
Kern	8	354	103	465	362	0	152*
Big Creek/ Ventura	402	2821	305	3528	3528	2083*	2577*
LA Basin	1344	7038	17	8399	8399	6224	6260
San Diego/ Imperial Valley	4	4032	523	4559	4036	4025	4025
Total	4020	26567	1361	31828	30766	19502	21937

Near-Term LCR Study Schedule

CPUC and the ISO have determined overall timeline

- Criteria, methodology and assumptions meeting Oct. 31, 2018
- Submit comments by November 14, 2018
- Posting of comments with ISO response by the December 12, 2018
- Base case development started in December 2018
- Receive base cases from PTOs January 2019
- Publish base cases January 14, 2019 – comments by Jan 28th
- Receive and incorporate CEC load forecast February 5-12th
- Draft study completed by March 7, 2019
- ISO Stakeholder meeting March 14, 2019 – comments by the 28th
- ISO receives new operating procedures March 26, 2019
- Validate op. proc. – publish draft final report April 3, 2019
- ISO Stakeholder call April 10, 2019 – comments by the 24th
- Final 2020 LCR report May 1, 2019



2019 ISO Procurement Schedule

Per ISO Tariff and BPM - overall timeline

- Final LCR Report May 1, 2019
- LSE self-guided local allocation; May-June, 2019
- Receive new CEC coincident load forecast June 30, 2019
- ISO or CPUC to send out final local allocation; middle of July, 2019
- For any current RMR resource; LSEs to submit showings by 9/6/2019
- ISO to decide on retaining units under RMR by October 1, 2019
- Final LSE showings TBD – Usually last week of October, 2019
- ISO to send a market notice out stating deficiencies in procurement – about 3 weeks after final showing - about November 21, 2019
- 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

Stay connected



@California_ISO



Download ISO Today
mobile app



Sign up for the Daily Briefing
at www.caiso.com