



California ISO

2019 & 23 Draft LCR Study Results Summary of Findings

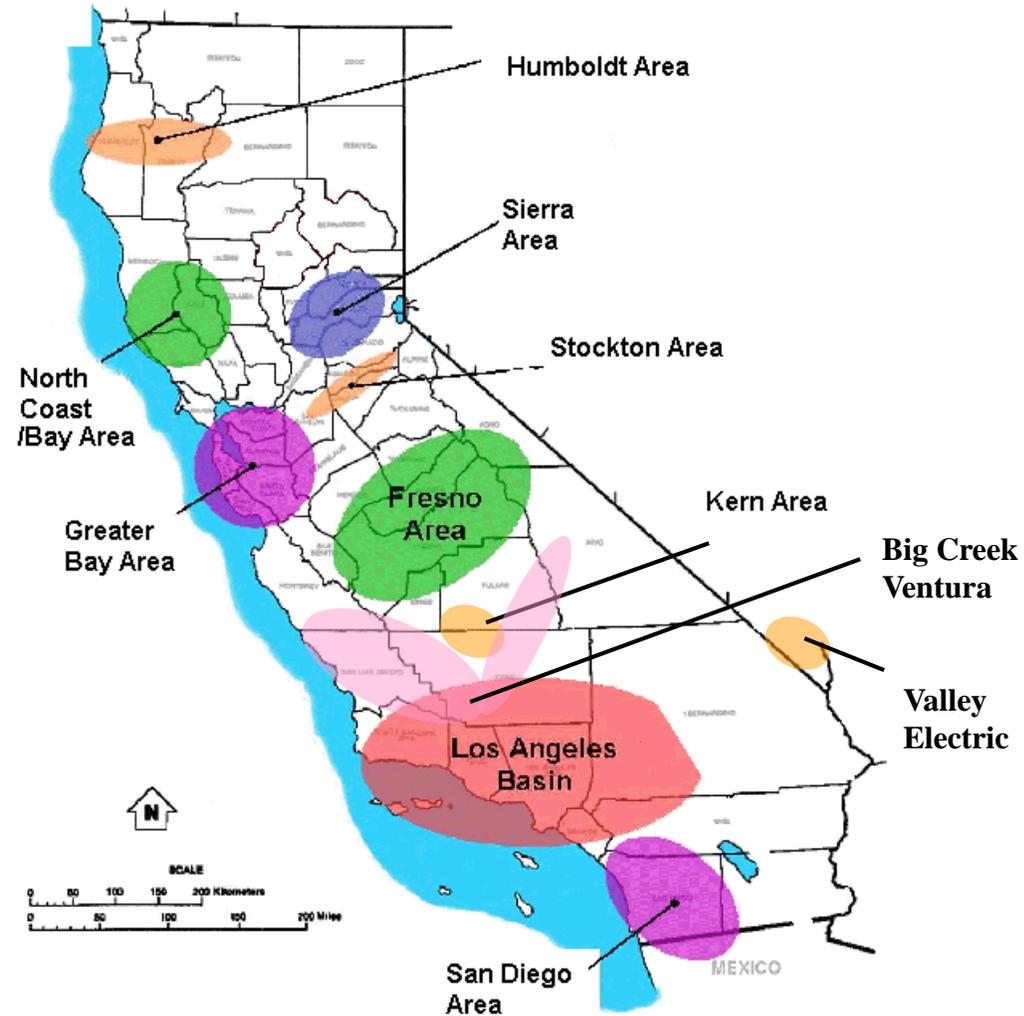
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Stakeholder Meeting

April 9, 2018

LCR Areas within CAISO



Input Assumptions, Methodology and Criteria

See October 31, 2017 stakeholder teleconference - for study assumptions, methodology and criteria. The latest information along with the 2019 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, 2019

Generation – all-generation with COD up to June 1, 2019

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)

Major Changes from last year studies

1. **New 2018 NQC data.**
2. **LCR results herein use CEC 8760 load forecast.**
3. **Total 2019 LCR needs have increased by 112 MW or ~ 0.4%.**
4. **2019 LCR needs decrease in: Humboldt** due to load forecast decrease, **Bay Area** due to new transmission projects, **Fresno** due to decrease in load forecast and due to new transmission projects.
5. **2019 LCR needs increase in: North Coast/North Bay, Stockton, Big Creek/Ventura, LA Basin** due to load forecast increase and **Sierra** due to load and resource distribution, **Kern** due to change in limiting line section, **San Diego/Imperial Valley** primarily due to lower net qualifying capacity (NQC) for solar generating units that are located in the Imperial Valley area as well as generation retirements in the Big Creek/Ventura area.

2019 Draft LCR Needs

Local Area Name	Qualifying Capacity			2019 LCR Need Based on Category B			2019 LCR Need Based on Category C with operating procedure		
	QF/ Muni (MW)	Market (MW)	Total (MW)	Existing Capacity Needed	Deficiency	Total (MW)	Existing Capacity Needed**	Deficiency	Total (MW)
Humboldt	0	202	202	116	0	116	165	0	165
North Coast / North Bay	119	736	855	689	0	689	689	0	689
Sierra	1146	999	2145	1362	0	1362	1964	287	2251
Stockton	144	492	636	405	5	410	427	350	777
Greater Bay	500	6449	6949	3670	0	3670	4461	0	4461
Greater Fresno	340	3086	3426	1406	0	1406	1670	1	1671
Kern	12	488	500	154	0	154	472	6	478
LA Basin	1567	9299	10866	7968	0	7968	8091	0	8091
Big Creek/Ventura	182	4741	4923	2333	0	2333	2614	0	2614
San Diego/ Imperial Valley	106	4260	4366	4122	0	4122	4122	0	4122
Total	4116	30752	34868	22225	5	22230	24675	644	25319

Major Changes from last year studies

1. **Total 2023 LCR needs have decreased by about 515 MW or ~2.2%.**
2. **2023 LCR needs** decrease in: **Humboldt** due to decrease in load forecast and **Bay Area, Sierra and Stockton** due to new transmission projects, **Fresno** and **San Diego/Imperial Valley** due to load forecast decrease and new transmission projects.
3. **2023 LCR needs** increase in: **North Coast/North Bay, Big Creek /Ventura** and **LA Basin** due to load forecast increase, **Kern** due to new sub-area needs.

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

2023 Draft LCR Needs

Local Area Name	Qualifying Capacity			2023 LCR Need Based on Category B			2023 LCR Need Based on Category C with operating procedure		
	QF/ Muni (MW)	Market (MW)	Total (MW)	Existing Capacity Needed	Deficiency	Total (MW)	Existing Capacity Needed**	Deficiency	Total (MW)
Humboldt	0	202	202	111	0	111	169	0	169
North Coast / North Bay	119	736	855	553	0	553	553	0	553
Sierra	1146	999	2145	1268	0	1268	1924	0	1924
Stockton	144	543	687	225	20	245	282	157	439
Greater Bay	500	6284	6784	3676	0	3676	4752	0	4752
Greater Fresno	340	3157	3497	1688	0	1688	1688	1	1689
Kern	12	488	500	158	0	158	174	8	182
LA Basin	1567	6628	8195	6793	0	6793	6793	0	6793
Big Creek/Ventura	182	3241	3423	2212	0	2212	2690	0	2690
San Diego/ Imperial Valley	296	4085	4381	4132	0	4132	4132	0	4132
Total	4306	26363	30669	20816	20	20836	23157	166	23323

Near-Term LCR Study Schedule

CPUC and the ISO have determined overall timeline

- Criteria, methodology and assumptions meeting Oct. 31, 2017
- Submit comments by November 14, 2017
- Posting of comments with ISO response by the December 12, 2017
- Base case development started in December 2017
- Receive base cases from PTOs January 2018
- Publish base cases January 19, 2018 – comments by Feb. 2nd
- Receive and incorporate CEC load forecast February 21-28th
- Draft study completed by March 28, 2018
- ISO Stakeholder meeting April 9, 2018 – comments by the 16th
- ISO receives new operating procedures April 16, 2018
- Validate op. proc. – publish draft final report April 23, 2018
- ISO Stakeholder call May 1, 2018 – comments by the 8th
- Final 2019 LCR report May 15, 2018



2018 ISO Procurement Schedule

Per ISO Tariff and BPM - overall timeline

- Final LCR Report May 15, 2018
- LSE self-guided local allocation; third week in May, 2018
- Receive new CEC coincident load forecast June 30, 2018
- ISO or CPUC to send out final local allocation; middle of July, 2018
- For any current RMR resource; LSEs to submit showings by 9/14/2018
- ISO to decide on retaining units under RMR by October 1, 2018
- Final LSE showings TBD – Usually last week of October, 2018
- ISO to send a market notice out stating deficiencies in procurement – about 3 weeks after final showing - about November 21, 2018
- 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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