



California ISO
Shaping a Renewed Future

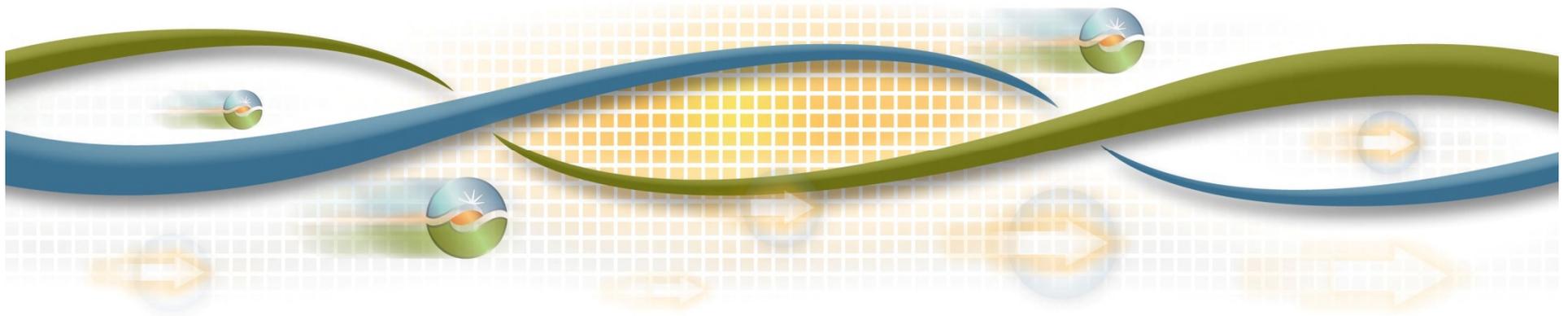
2013 Final LCR Study Results Summary of Findings

Catalin Micsa

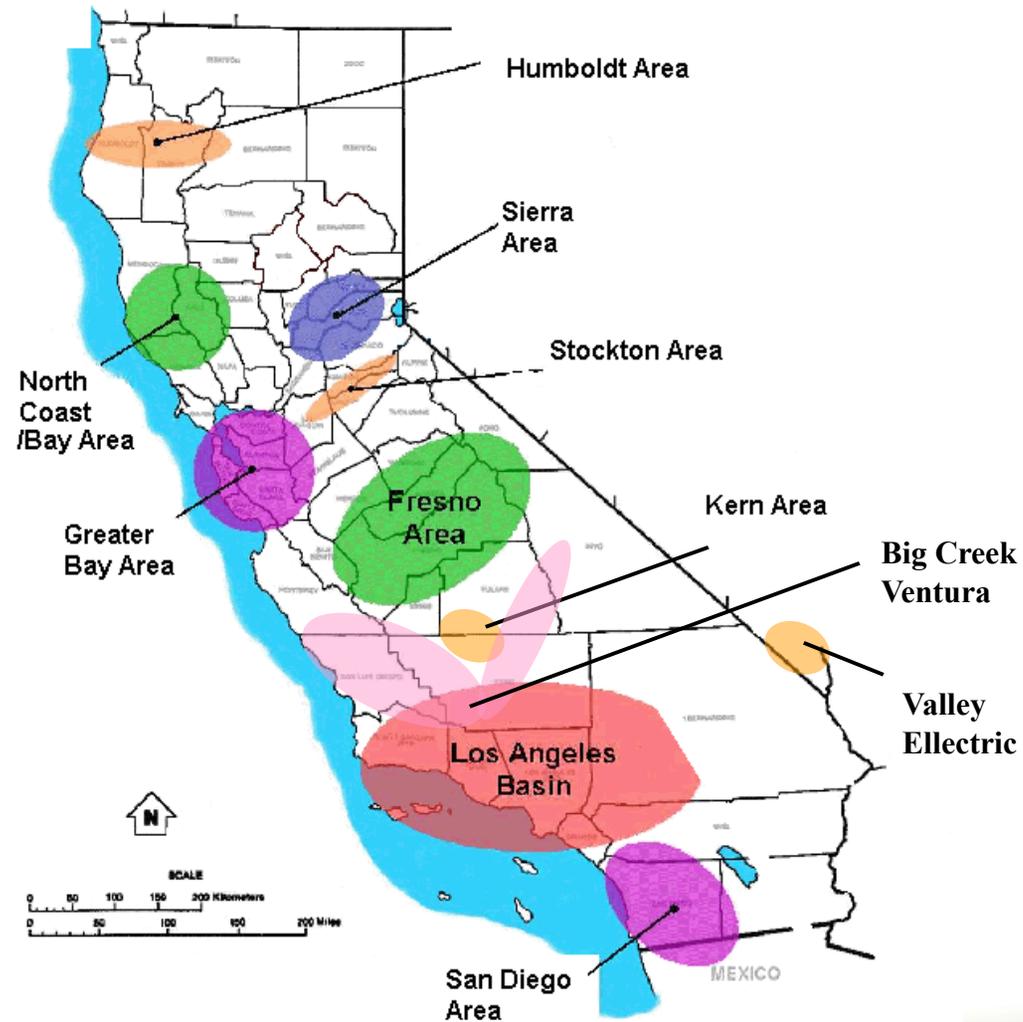
Lead Regional Transmission Engineer

Stakeholder Meeting

April 12, 2012



LCR Areas within CAISO



Input Assumptions, Methodology and Criteria

See November 10, 2011 stakeholder meeting - for study assumptions, methodology and criteria. The latest information along with the 2013 LCR Manual can be found at:

http://www.caiso.com/Documents/LCR_ManualFinal_2013.pdf.

Transmission system configuration – all-projects with EDRO up to June 1, 2013

Generation – all-generation with COD up to June 1, 2013

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 NQC data.**
2. **Total LCR needs have decreased by 1000 MW or ~ 4%.**
3. **Humboldt and Stockton LCR needs** are about the same as last year
4. **Sierra, Fresno, LA Basin LCR needs** decrease due to load forecast and **Big Creek/ Ventura** decrease due to new transmission projects, decrease in load forecast and substation load allocation change.
5. **North Coast/ North Bay, Bay Area and Kern LCR needs** increase due to load growth.
6. **San Diego LCR needs** increase due to load growth as well as deficiency increase in two small sub areas; however the resource capacity needed has slightly decreased because the elimination of 1000 MW WECC path rating of Sunrise as well as the change in WECC definition of “adjacent circuit”. San Diego area has been expanded to Imperial Valley due to more limiting constraint.
7. **New Valley Electric – no LCR needs** since there are no resources in the area.
8. **Non-summer season LCR analyzes for San Diego** – for stakeholder information only (will not influence LSE local resource allocation).

Total 2013 Final LCR Needs

Local Area Name	Qualifying Capacity			2013 LCR Need Based on Category B			2013 LCR Need Based on Category C with operating procedure		
	QF/ Muni (MW)	Market (MW)	Total (MW)	Existing Capacity Needed	Deficien cy	Total (MW)	Existing Capacity Needed**	Deficien cy	Total (MW)
Humboldt	55	162	217	143	0	143	190	22*	212
North Coast / North Bay	130	739	869	629	0	629	629	0	629
Sierra	1274	765	2039	1408	0	1408	1712	218*	1930
Stockton	216	404	620	242	0	242	413	154*	567
Greater Bay	1368	6296	7664	3479	0	3479	4502	0	4502
Greater Fresno	314	2503	2817	1786	0	1786	1786	0	1786
Kern	684	0	684	295	0	295	483	69*	552
LA Basin	4452	8675	13127	10295	0	10295	10295	0	10295
Big Creek/ Ventura	1179	4097	5276	2161	0	2161	2241	0	2241
San Diego/ Imperial Valley	158	3991	4149	2832	0	2832	2832	144*	2976
Total	9830	27632	37462	23270	0	23270	25083	607	25690

2013 LCR Study Schedule

CPUC and the ISO have determined overall timeline

- Criteria, methodology and assumptions meeting Nov. 10, 2011
- Submit comments by November 24, 2011
- Posting of comments with ISO response by the January 18, 2012
- Base case development will start in December 2011
- Receive base cases from PTOs January 3, 2012
- Publish base cases January 18, 2012 – comments by the Feb. 1th
- Draft study completed by March 2, 2012
- ISO Stakeholder meeting March 8, 2012
- ISO receives new operating procedures March 22, 2012
- Review and validate op. proc. – publish draft final report April 5, 2012
- ISO Stakeholder meeting April 12, 2012 – comments by the 19th
- Final report May 1, 2012



2012 ISO Procurement Schedule

Per ISO Tariff and BPM - overall timeline

- Final LCR Report May 1, 2012
- LSE self-guided local allocation; first week in May, 2012
- Receive new CEC coincident load forecast June 30, 2012
- ISO or CPUC to send out final local allocation; middle of July, 2012
- If Oakland under contract; LSEs to submit showings by 9/14/2012
- ISO to decide on retaining units under RMR by October 1, 2012
- Final LSE showings TBD – Usually last week of October, 2012
- ISO to send a market notice out stating deficiencies in procurement – about 3 weeks after final showing - about November 22, 2012
- ISO receives additional showing (30 days after market notice)
- ISO to enter back-stop procurement for local reasons (if needed)

Your comments and questions are welcome.

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