



California ISO
Shaping a Renewed Future

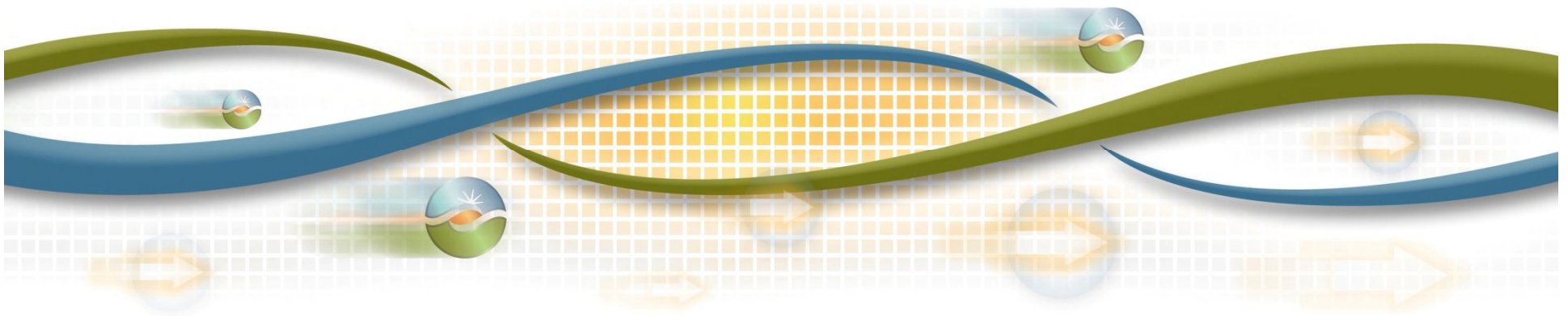
2014 and 2018 Draft LCR Study Results - Summary of Findings

Catalin Micsa

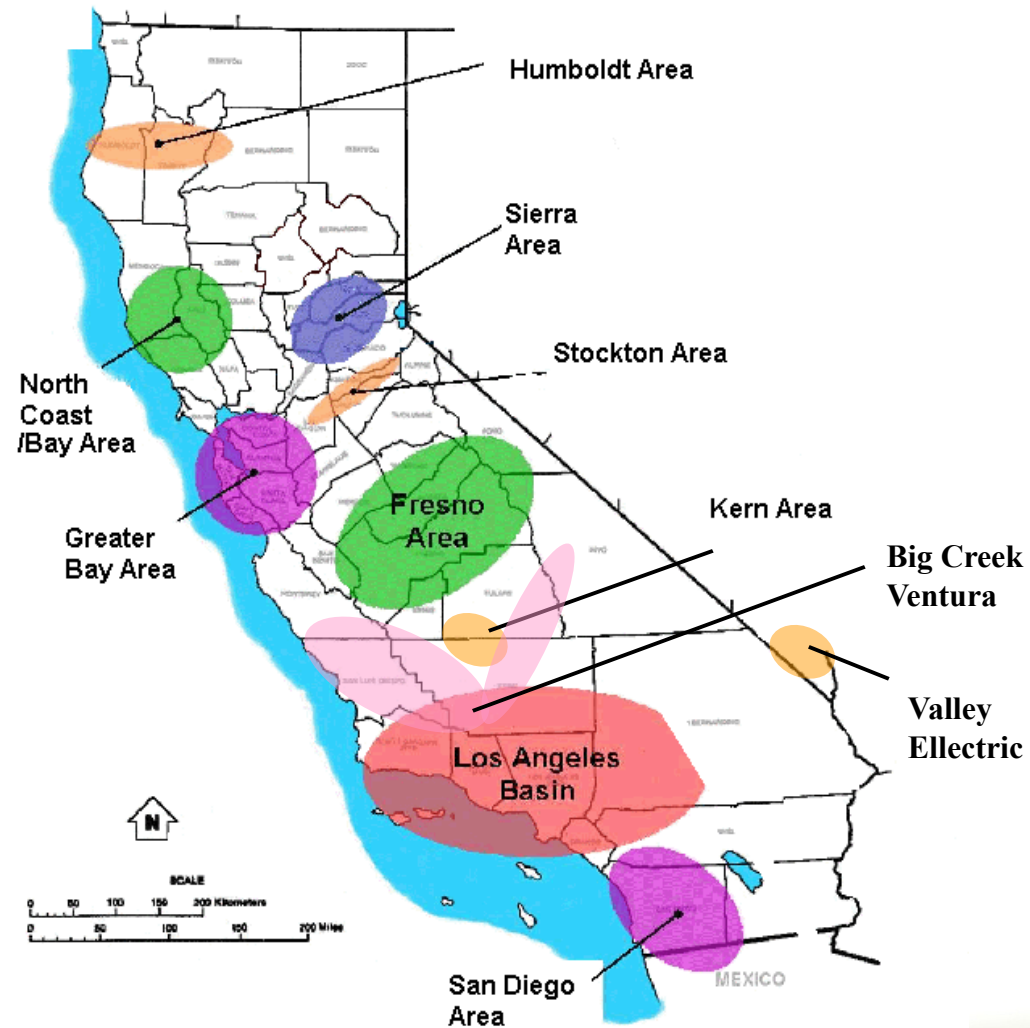
Lead Regional Transmission Engineer

Stakeholder Meeting

March 7, 2013



LCR Areas within CAISO



Input Assumptions, Methodology and Criteria

See November 8, 2012 stakeholder meeting - for study assumptions, methodology and criteria. The latest information along with the 2014 LCR Manual can be found at:

<http://www.caiso.com/Documents/2014LocalCapacityRequirementsFinalStudyManual.pdf> .

Transmission system configuration – all-projects with EDRO up to June 1, 2014

Generation – all-generation with COD up to June 1, 2014

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. **Old NQC data.**
2. **Total LCR needs have increased by ~ 2.5%.**
3. **Big Creek/Ventura and North Coast/ North Bay LCR needs** are about the same as last year
4. **Humboldt and Kern** decrease due to new transmission projects and decrease in load forecast.
5. **LCR needs** increase in: **Sierra, Stockton, Bay Area, LA Basin, Fresno and San Diego** due to load growth.
6. **SONGS sensitivity** applied to impacted local areas and sub-areas.

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

Total 2014 Draft LCR Needs

Local Area Name	Qualifying Capacity			2014 LCR Need Based on Category B			2014 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	55	162	217	145	0	145	195	0	195
North Coast / North Bay	130	739	869	623	0	623	623	0	623
Sierra	1274	765	2039	1414	0	1414	1803	268	2071
Stockton	216	404	620	470	0	470	481	232	713
Greater Bay	1368	6296	7664	3747	0	3747	4423	221	4644
Greater Fresno	314	2503	2817	1857	0	1857	1857	0	1857
Kern	684	0	684	293	0	293	329	32	361
LA Basin	4452	8675	13127	10466	0	10466	10466	0	10466
Big Creek/ Ventura	1179	4097	5276	2156	0	2156	2250	0	2250
San Diego/ Imperial Valley	158	3991	4149	2945	0	2945	2945	302	3247
Total	9830	27632	37462	24116	0	24116	25372	1055	26427

Total 2018 Draft LCR Needs

Local Area Name	Qualifying Capacity			2018 LCR Need Based on Category B			2018 LCR Need Based on Category C with operating procedure		
	QF/ Muni (MW)	Market (MW)	Total (MW)	Existing Capacity Needed	Defici ency	Total (MW)	Existing Capacity Needed	Defici ency	Total (MW)
Humboldt	70	162	232	149	0	149	197	0	197
North Coast/ North Bay	142	771	913	424	0	424	424	0	424
Sierra	1274	765	2039	864	26	890	1114	39	1153
Stockton	312	404	716	284	0	284	382	35	417
Greater Bay	1378	6296	7674	3896	0	3896	4478	14	4492
Greater Fresno	314	2503	2817	2110	0	2110	2110	0	2110
Kern	592	78	670	305	0	305	373	48	421
LA Basin	4452	9502	13954	9882	0	9882	11071	0	11071
Big Creek/Ventura	1124	4096	5220	2397	0	2397	2688	0	2688
Greater San Diego/ Imperial Valley	238	4687	4925	3310	2	3312	3310	49	3359
Total	9896	29264	39160	23621	28	23649	26147	185	26332

2014 and 2018 LCR Study Schedule

CPUC and the ISO have determined overall timeline

- Criteria, methodology and assumptions meeting Nov. 8, 2012
- Submit comments by November 22, 2012
- Posting of comments with ISO response by the January 15, 2013
- Base case development started in December 2012
- Receive base cases from PTOs January 3, 2013
- Publish base cases January 15, 2013 – comments by the 29th
- Draft study completed by March 4, 2013
- ISO Stakeholder meeting March 7, 2013
- ISO receives new operating procedures March 21, 2013
- Validate op. proc. – publish draft final report March 28, 2013
- ISO Stakeholder meeting April 4, 2013 – comments by the 18th
- Final 2014 LCR report May 1, 2013



2013 ISO Procurement Schedule

Per ISO Tariff and BPM - overall timeline

- Final LCR Report May 1, 2013
- LSE self-guided local allocation; first week in May, 2013
- Receive new CEC coincident load forecast June 30, 2013
- ISO or CPUC to send out final local allocation; middle of July, 2013
- If Oakland under contract; LSEs to submit showings by 9/13/2013
- ISO to decide on retaining units under RMR by October 1, 2013
- Final LSE showings TBD – Usually last week of October, 2013
- ISO to send a market notice out stating deficiencies in procurement – about 3 weeks after final showing - about November 22, 2013
- 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