

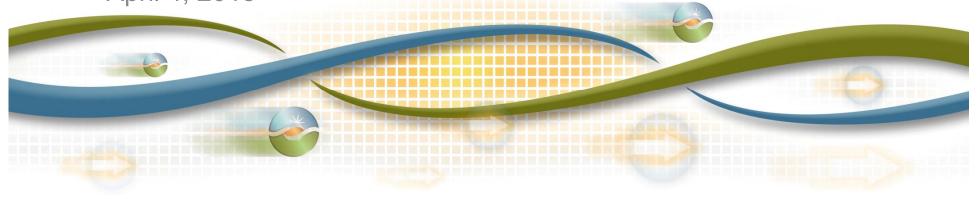
2014 and 2018 Final LCR Study Results – Humboldt

Rajeev Annaluru

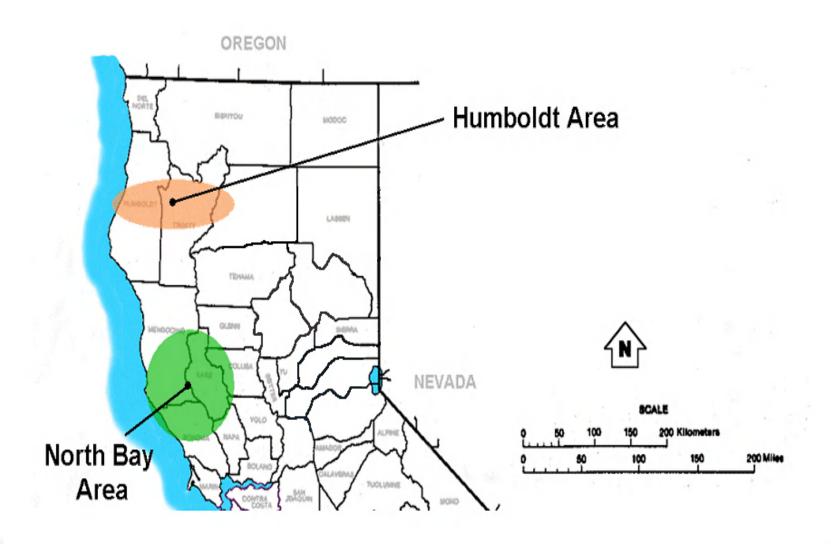
Senior Regional Transmission Engineer

Stakeholder Conference Call

April 4, 2013



Humboldt Area



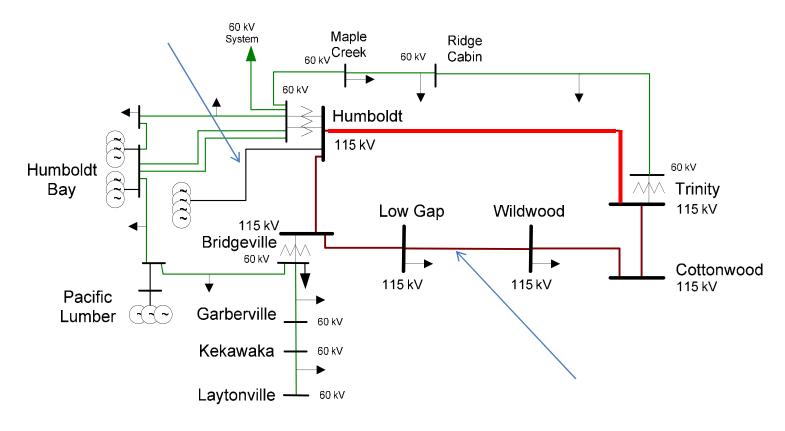


Humboldt Load and Resources (MW)

		2014	2018
Load	=	187	198
Transmission Losses	=	8	10
Total Load	=	195	208
Market Generation	=	173	173
Wind Generation	=	15	15
QF/Self-Gen Generation	=	55	55
Total Qualifying Capacity	=	243	243



Critical Contingencies Humboldt Area



overload



Critical Contingencies Humboldt Area

Humboldt Overall – Category B

- Contingency: Cottonwood-Bridgeville 115 kV line + one Humboldt PP units out of service
- Limiting component: Thermal overload on Humboldt -Trinity 115 kV line
- 2014 LCR need: 145 MW (including 55 MW of QF/Self generation and 15 MW of Wind)
- 2018 LCR need: 149 MW (including 55 MW of QF/Self generation and 15 MW of Wind)

Humboldt Overall – Category C

- Contingency: Cottonwood Bridgeville 115 kV line + 115 kV Gen tie to the Humboldt Bay Units
- Limiting component: Thermal overload on the Humboldt Trinity 115kV Line
- 2014 LCR need: 195 MW (including 55 MW of QF/Self generation and 15 MW of Wind)
- 2018 LCR need: 197 MW (including 55 MW of QF/Self generation and 15 MW of Wind)



Changes

Since last year:

- Load + Losses for Humboldt came down by 15 MW
- 2) Garberville reactive support project
- 3) Humboldt 115 kV transformer replacements
- 4) LCR increased by 5 MW
- 5) Long-Term LCR increase by 2 MW over 2014

Since last stakeholder meeting:

1) Updated NQC

Your comments and questions are welcomed

Please send written comments to: RegionalTransmission@caiso.com

