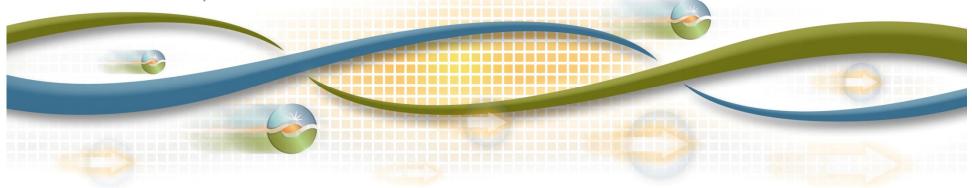


# 2014 and 2018 Draft LCR Study Results – Humboldt

Rajeev Annaluru Senior Regional Transmission Engineer

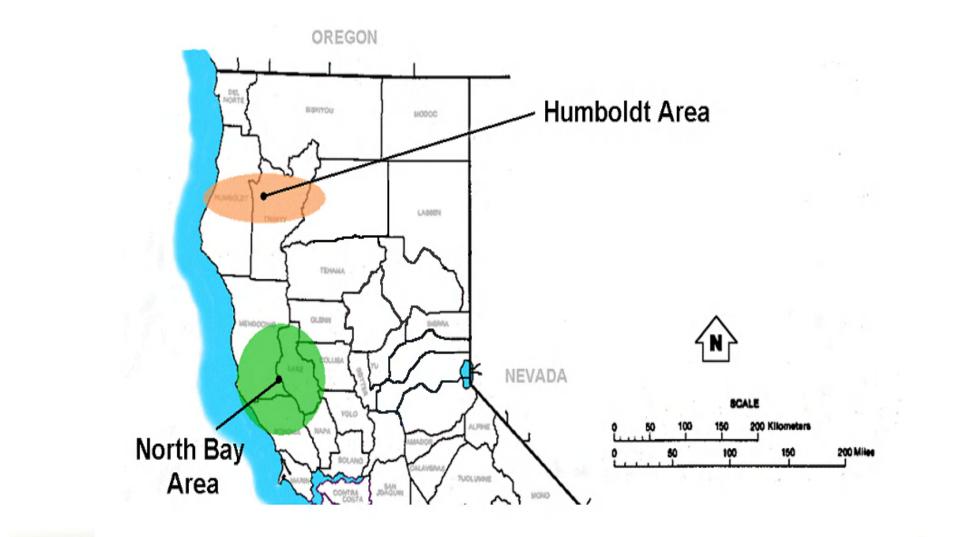
Stakeholder Meeting

March 7, 2013



## Humboldt Area

California ISO Shaping a Renewed Future

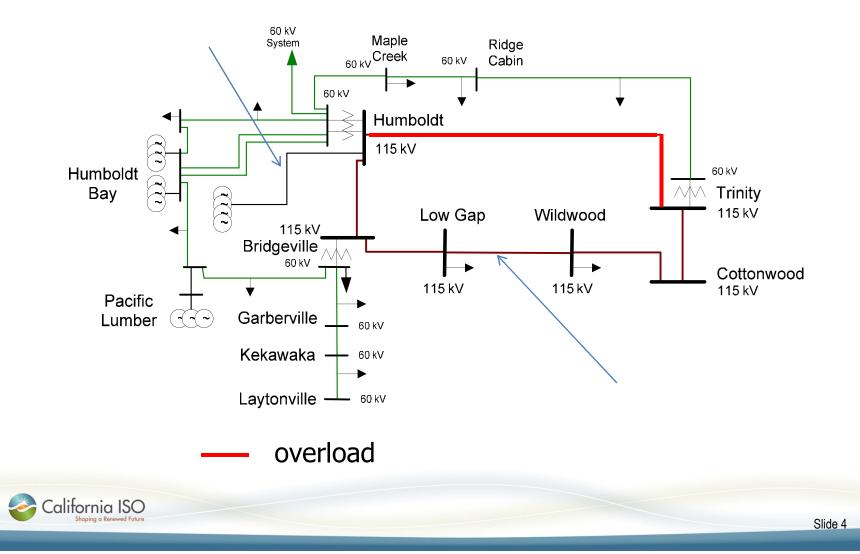


## Humboldt Load and Resources (MW)

		2014	2018
Load	=	187	198
Transmission Losses	=	8	10
Total Load	=	195	208
Market Generation	=	162	162
Muni Generation	=	0	0
QF/Self-Gen Generation	=	55	55
Total Qualifying Capacity	=	217	217



## Critical Contingencies Humboldt Area



# **Critical Contingencies Humboldt Area**

### Humboldt Overall – Category B

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

### Humboldt Overall – Category C

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





#### Since last year:

- 1) 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

Your comments and questions are welcomed

Please send written comments to: RegionalTransmission@caiso.com

