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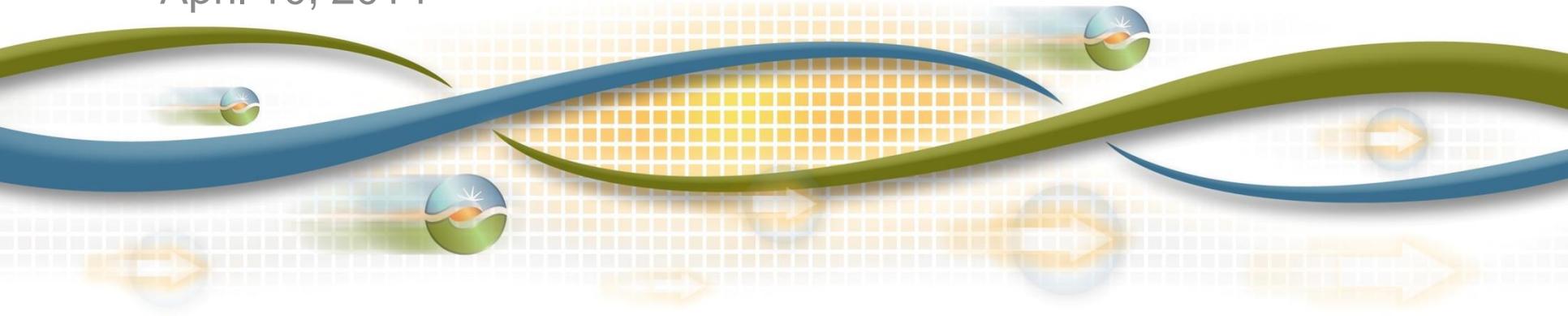
# 2015 and 2019 Final LCR Study Results – Humboldt

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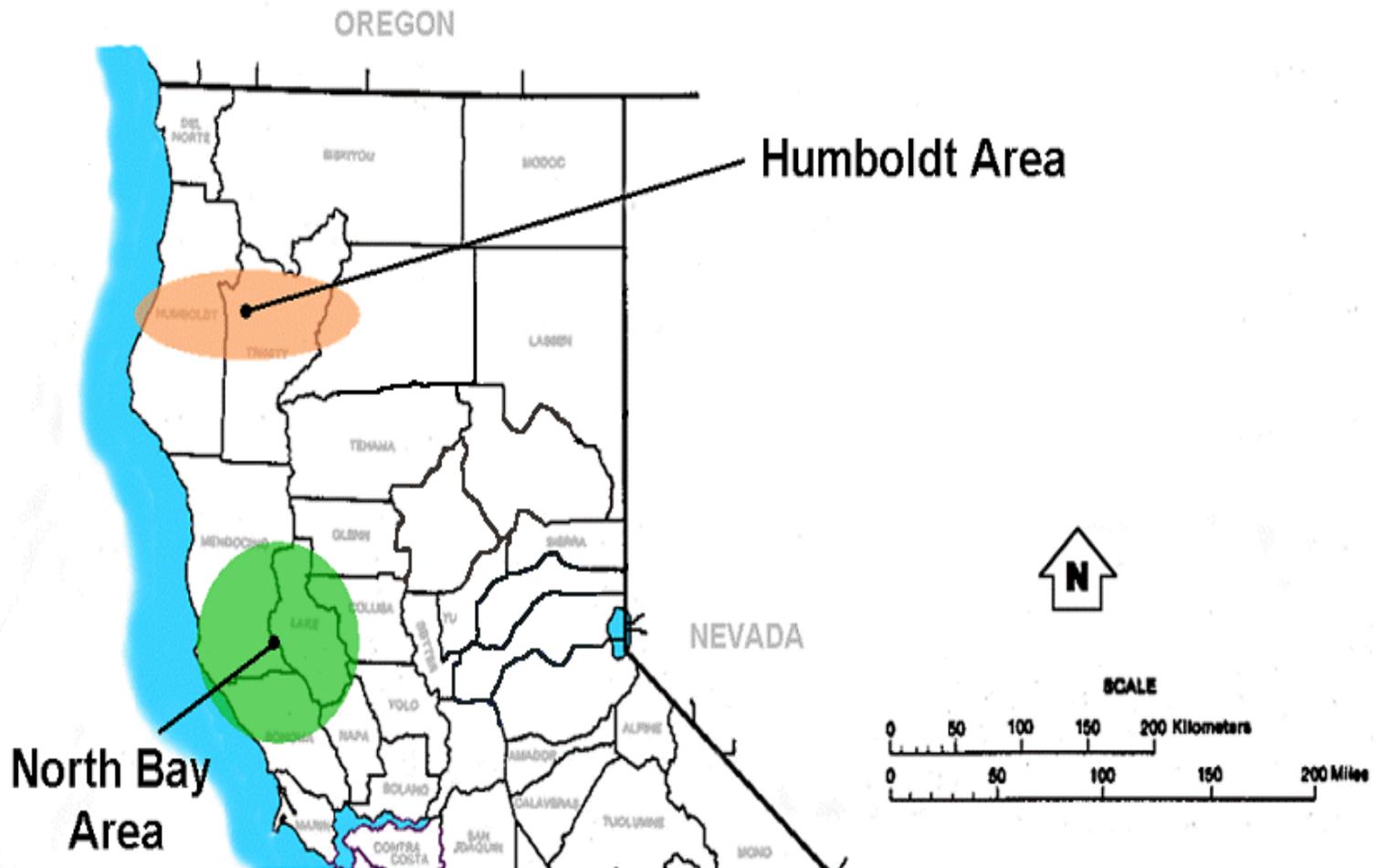
Senior Regional Transmission Engineer

Stakeholder Web Conference

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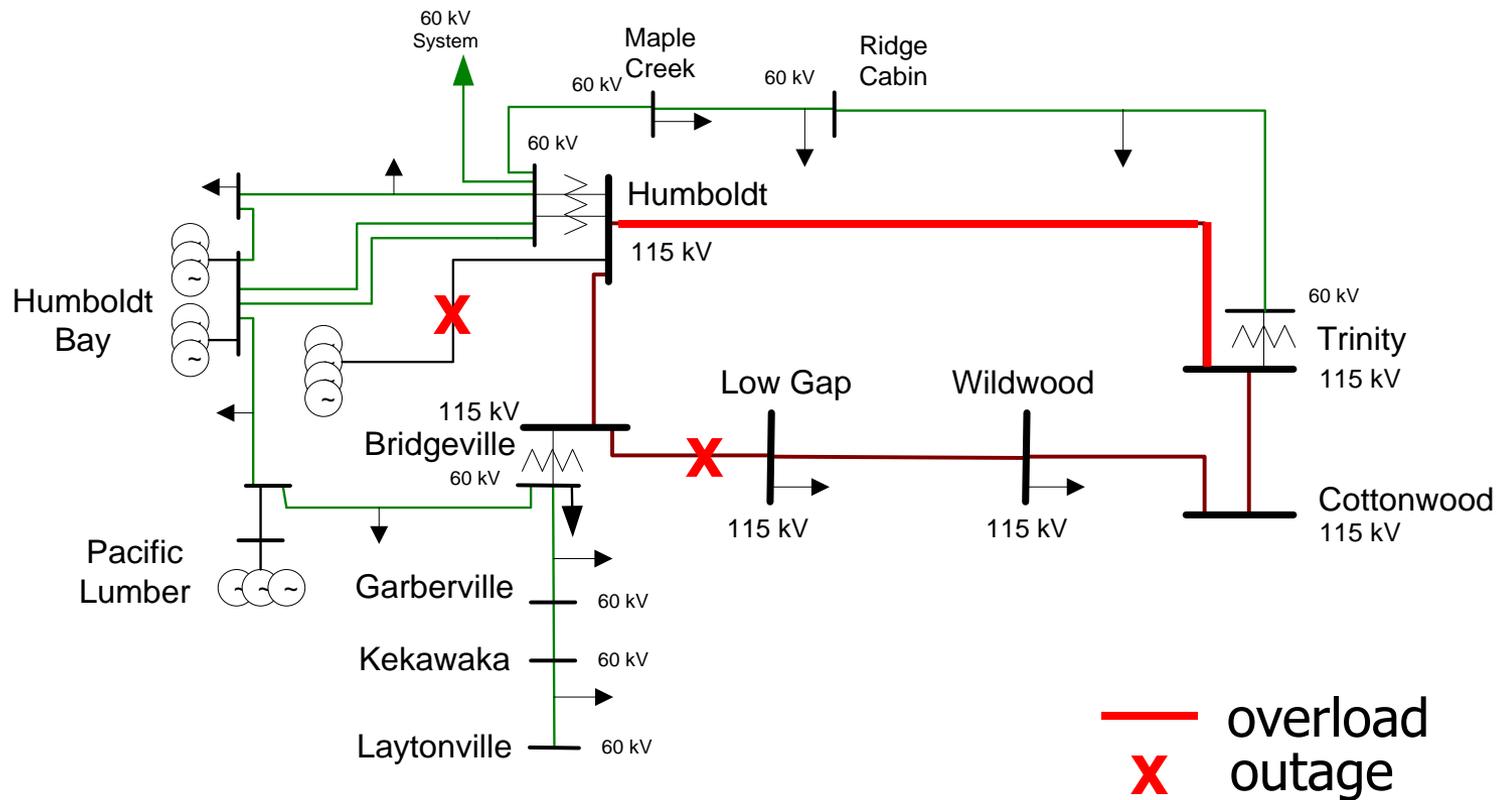
# Humboldt Area



# Humboldt Load and Resources (MW)

		<b>2015</b>	<b>2019</b>
Load	=	186	194
Transmission Losses	=	9	10
Total Load	=	195	204
Market Generation	=	184	184
QF/Self-Gen Generation	=	55	55
Total Qualifying Capacity	=	<b>239</b>	<b>239</b>

# Critical Contingencies Humboldt Area



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## 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
- 2015 LCR Need: 116 MW (including 36 MW of QF/Self generation)
- 2019 LCR Need: 123 MW (including 36 MW of QF/Self generation)

## 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
- 2015 LCR need: 166 MW (including 36 MW of QF/Self generation)
- 2019 LCR need: 173 MW (including 36 MW of QF/Self generation)

# Changes

## Since last year:

- 1) Load + Losses for Humboldt remained the same in 2015 and went down by 4 MW in 2019
- 2) LCR decreased by 29 MW in 2015 compared to 2014
- 3) Long-Term LCR decreased by 24 MW in 2019 compared to 2018

## Since last stakeholder call:

- 1) Updated NQC

**Your comments and questions are welcomed**

**Please send written comments to:**

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