

# 2017 Final LCR Study Results North Coast/ North Bay Area

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Stakeholder Call

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# Humboldt and North Coast/North Bay





# North Coast/North Bay Load and Resources (MW)

		2017
Load	=	1299
AAEE	=	-21
Transmission Losses	=	33
Total Load	=	1311
Market Generation	=	722
Wind Generation	=	0
Muni Generation	=	114
QF Generation	=	14
Total Qualifying Capacity	=	850



### North Coast and North Bay





# Eagle Rock Sub-Area

#### Eagle Rock Sub-area – Category B

Contingency: Cortina-Mendocino 115 kV line, with Geyser #11 unit out 2017 LCR need: 166 MW (includes 0 MW of QF/Muni generation) Limiting component: Thermal overload on Eagle Rock-Cortina 115 kV line

### Eagle Rock Sub-area – Category C

Contingency: Cortina-Mendocino and Geysers #3-Geysers #5 115 kV lines 2017 LCR need: 181 MW (includes 0 MW of QF/Muni generation) Limiting component: Thermal overload on Eagle Rock-Cortina 115 kV line



### Eagle Rock Sub-Area



### **Fulton Sub-area**

### Fulton Sub-area – Category B

No requirement.

### Fulton Sub-area – Category C

Contingency: Fulton-Lakeville and Fulton-Ignacio 230 kV lines Limiting component: Thermal overload on Santa Rosa-Corona 115 kV line 2017 LCR need: 304 MW (includes 14 MW of QF and 55 MW Muni generation)

The LCR need is due to an outage in the Eagle Rock area: Cortina-Mendocino and Geysers #3-Geysers #5 115 kV lines

Generation in Fulton sub-area also supports the Eagle Rock sub-area



### **Fulton Sub-area**





## Lakeville Sub-area

### Lakeville Sub-area (NC/NB Overall) – Category B

Contingency: Vaca Dixon-Tulucay 230 kV line with Delta Energy Center power plant out of service

2017 LCR need: 721 MW (includes 14 MW of QF and 114 MW of Muni generation)

Limiting component: Thermal overload on the Vaca Dixon-Lakeville 230 kV line

### Lakeville Sub-area (NC/NB Overall) – Category C

Contingency: Vaca Dixon-Tulucay and Vaca Dixon-Lakeville 230 kV lines

Limiting component: Thermal overload on the Eagle Rock-Cortina 115 kV line and possible overload on the Eagle Rock-Fulton 115 kV line or Moraga-Sobrante 115 kV line

Was not limiting in 2017



## Lakeville sub-area one line and generator



LCR need depends on the generation in the Pittsburg area.



### Lakeville Sub-area double line outage



LCR need depends on the generation in the Pittsburg area.



# Changes

### Since last year:

- 1. 2017 load forecast has decreased by 122 MW vs. 2016
- 2. LCR need has increased by 110 MW mainly due to reduced LCR need (by about 600 MW) in the Pittsburg sub-area.

#### Since last stakeholder meeting:

1. Updated NQC.

#### Your comments and questions are welcomed

For written comments, please send to: <u>RegionalTransmission@caiso.com</u>

