



2021 & 2025 Final LCR Study Results Humboldt Area

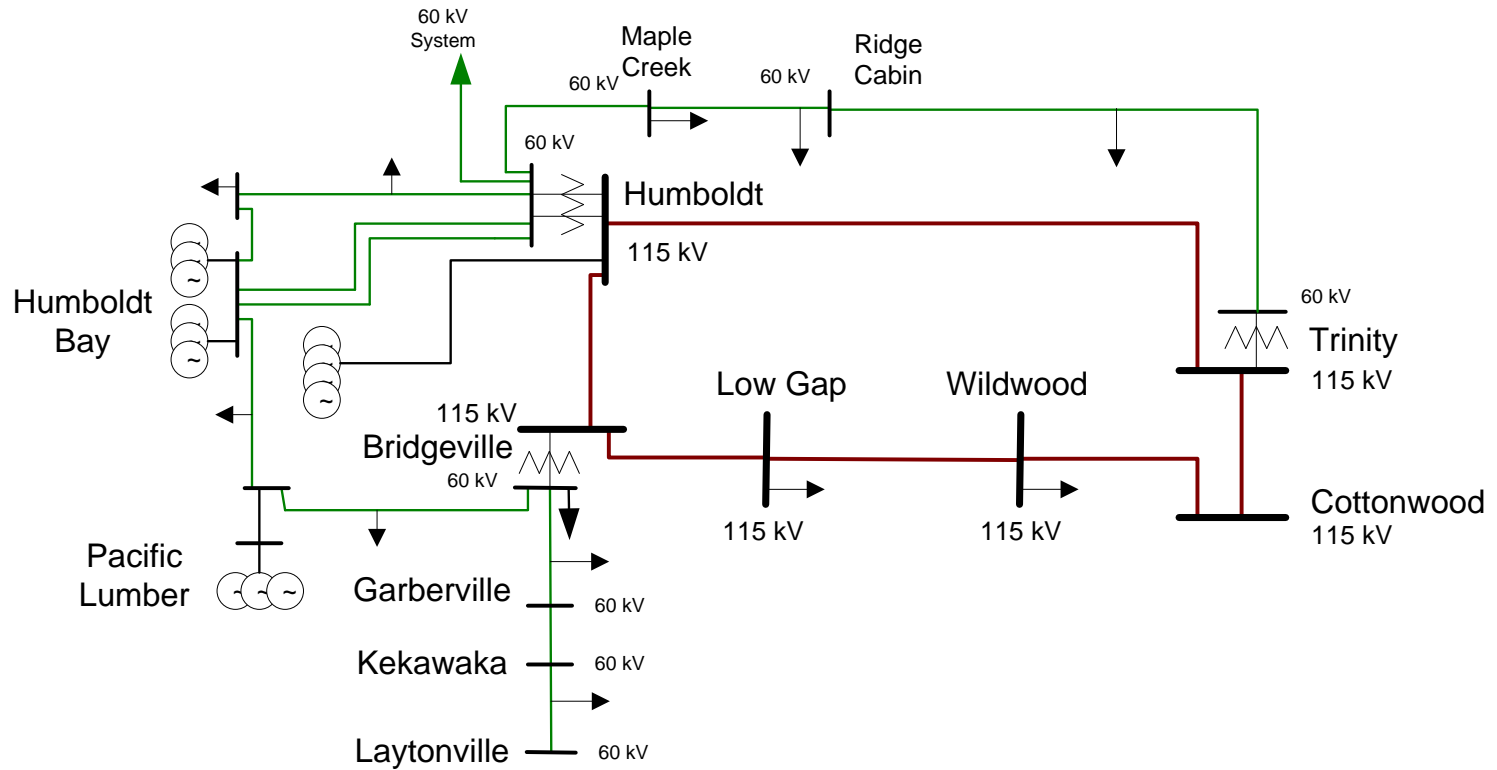
Lindsey Thomas

Regional Transmission Engineer

Stakeholder Call

April 13, 2020

Humboldt Area Transmission System



Humboldt: Load and Resources

Load (MW)	2021	2025	Generation (MW)	2021	2025
Gross Load	151	151	Market/ Net Seller	191	191
AAEE	-8	-8	Solar	0	0
Behind the meter DG	0	0	Wind	0	0
Net Load	143	143	Muni	0	0
Transmission Losses	10	10	QF	0	0
Pumps	0	0	Future preferred resource and energy storage	0	0
Load + Losses + Pumps	153	153	Total Qualifying Capacity	191	191

Topology changes

Transmission Additions:

- No new transmission additions

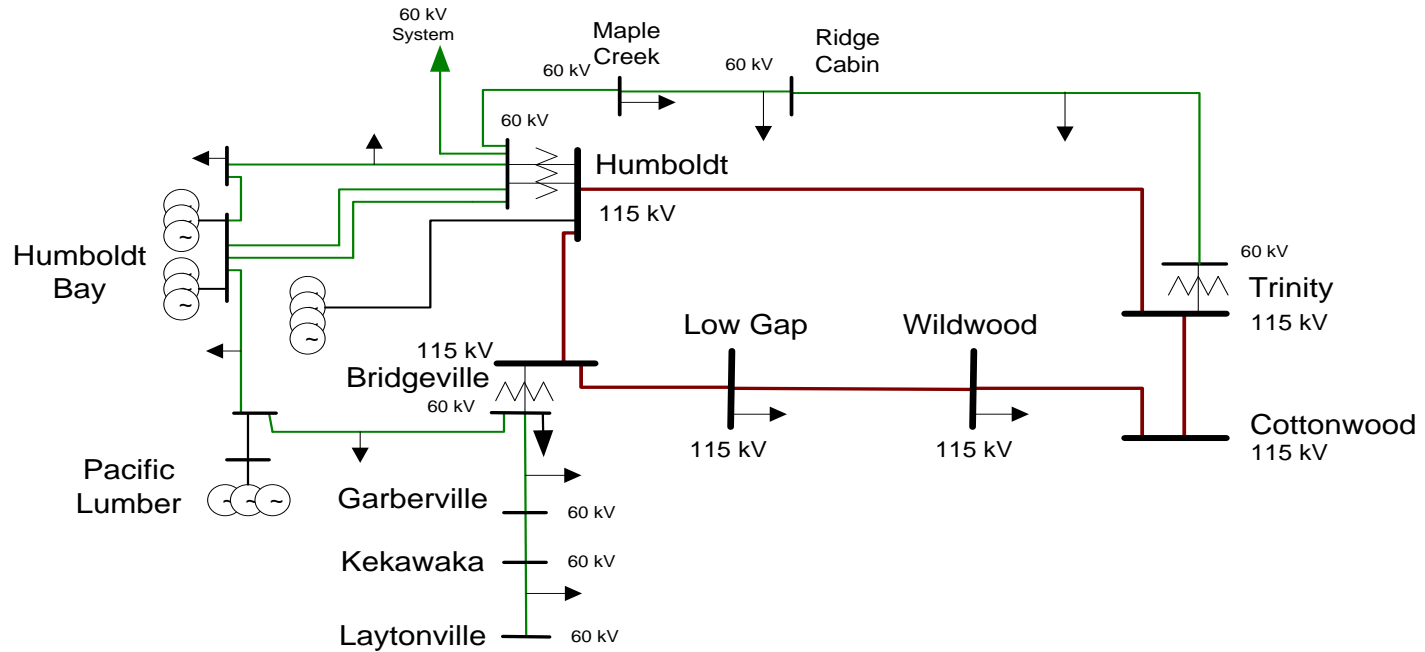
Resource Additions:

- No new resource additions

Resource Retirements:

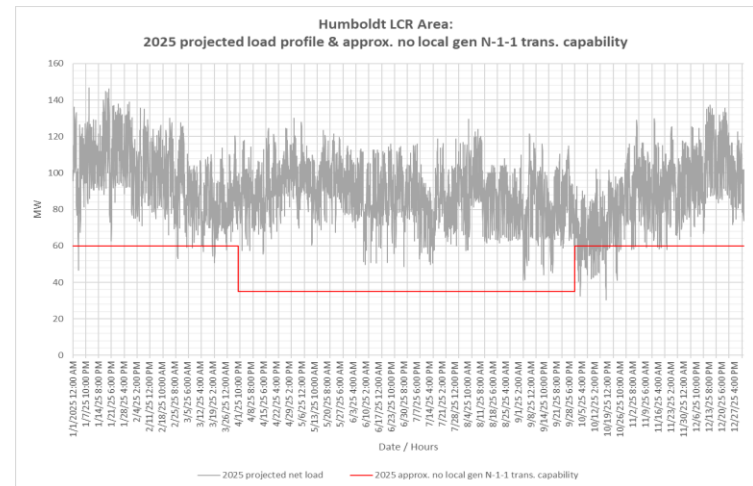
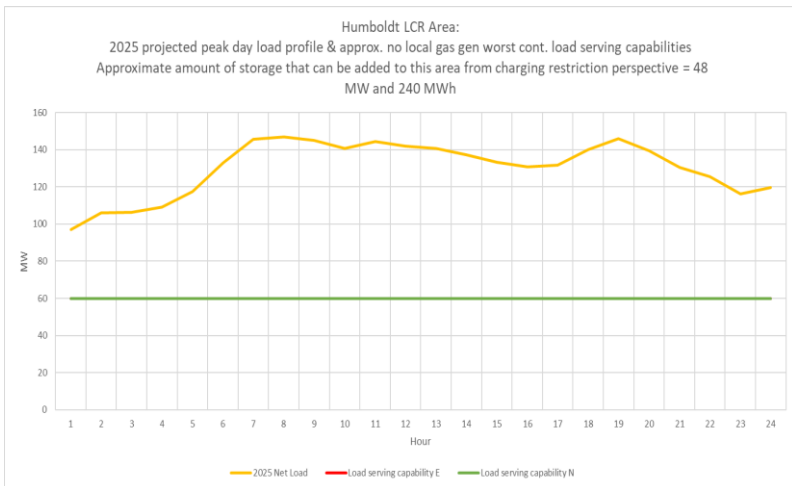
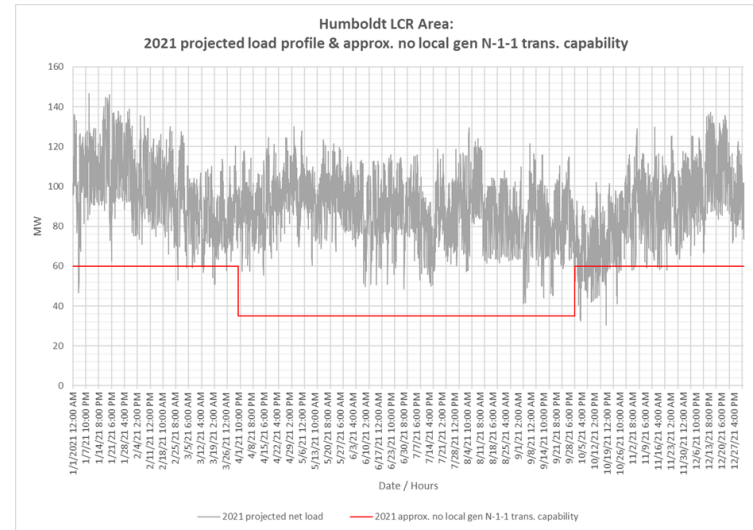
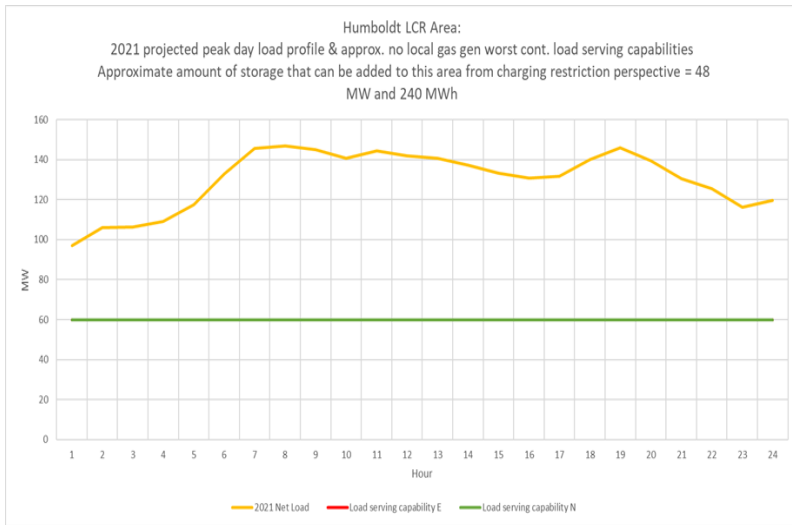
- No new retirements

Humboldt Area : Requirements



Year	Category	Limiting Facility	Contingency	LCR (MW) (Deficiency)
2021	P6	Thermal overload on Humboldt -Trinity 115 kV line	Cottonwood – Bridgeville 115 kV line + Humboldt – Humboldt Bay 115kV line	130
2025	P6	Thermal overload on Humboldt -Trinity 115 kV line	Cottonwood – Bridgeville 115 kV line + Humboldt – Humboldt Bay 115kV line	132

Humboldt Area: Load Profiles



Changes between years

Subarea	2020		2021	
	Load	LCR	Load	LCR
Humboldt	153	130	153	130

Subarea	2024		2025	
	Load	LCR	Load	LCR
Humboldt	153	132	153	132

- The CAISO and PG&E to continue to explore and address challenges related to winter peak load forecasting for use in local area studies.
- The results above represent the studies done last year.

Humboldt Area Total LCR Need

2021	Existing Generation Capacity Needed (MW)	Deficiency (MW)	Total (MW)
LCR Need	130	0	130

2025	Existing Generation Capacity Needed (MW)	Deficiency (MW)	Total (MW)
LCR Need	132	0	132