



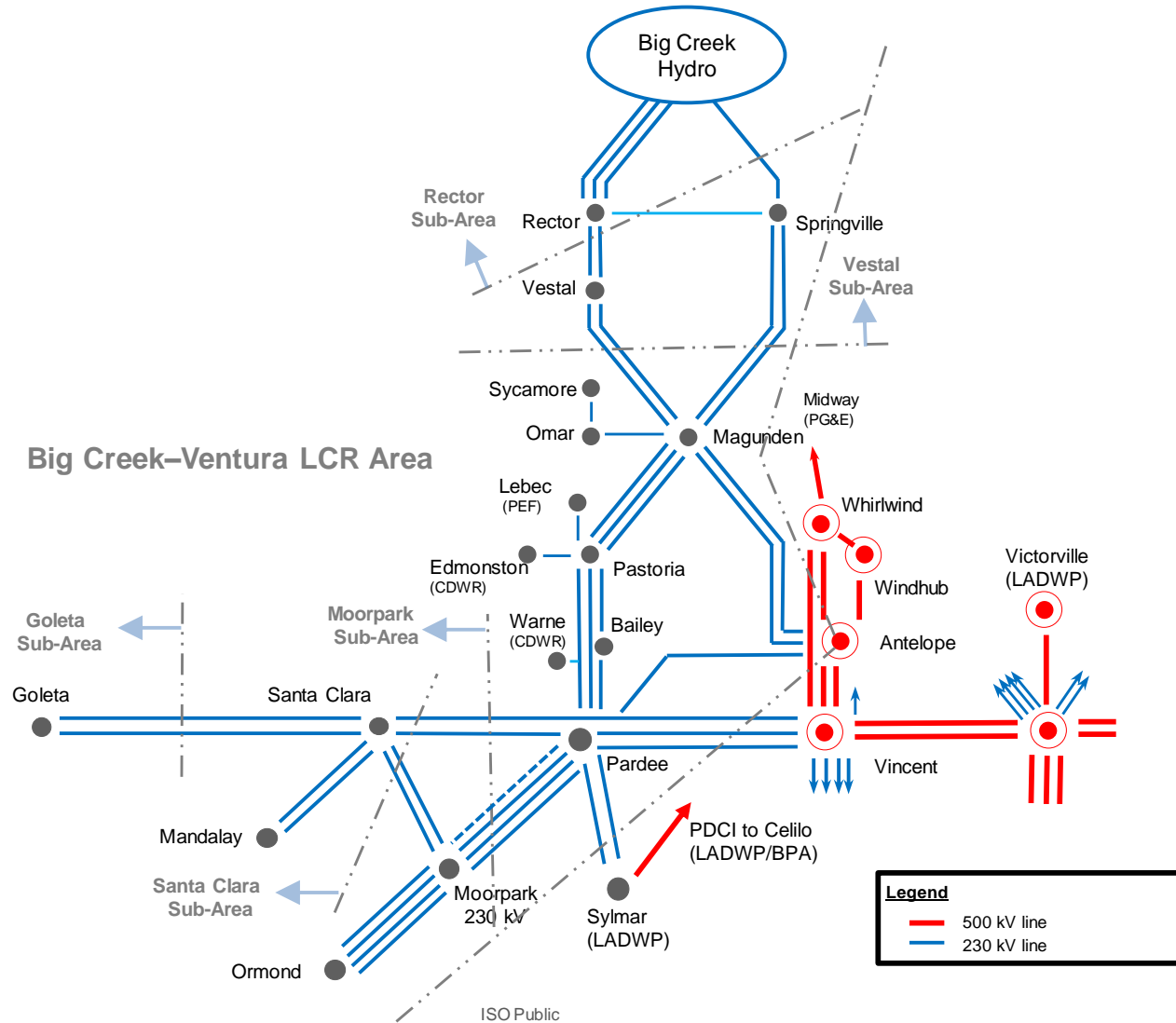
2024 & 2028 Final LCR Study Results Big Creek/Ventura Area

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Stakeholder Call

April 12, 2023

Big Creek - Ventura Area Transmission System



Major Transmission Projects

- Pardee-Sylmar 230 kV Rating Increase Project (ISD - June 2025)

Resource Assumptions

- Ormond Beach is assumed to be unavailable in both 2024 and 2028.¹
- Sylmar Bank E is out of service through 2025

1. The Ormond Beach generation is recommended by SACCWIS to have three more years of OTC permit extension (through 12/31/2026). The State Water Board schedules a public meeting on March 7, 2023 regarding the SACCWIS-recommended extension.

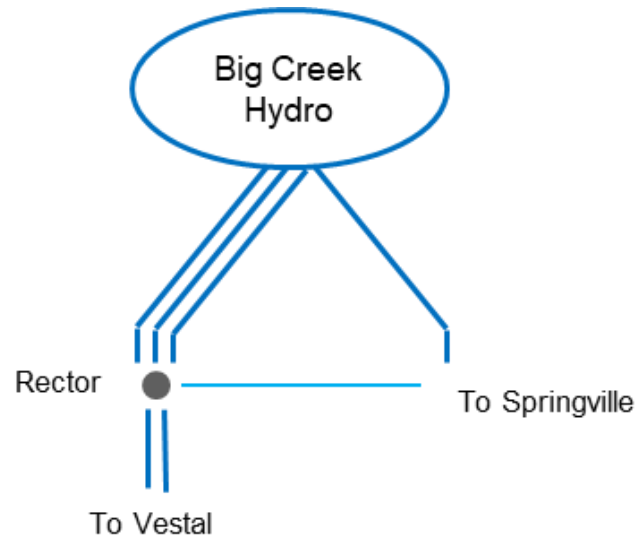
Load and Resources

Load (MW)			Generation August NQC (MW)*		
	2024	2028		2024	2028
Gross Load	4149	4323	Market/Net Seller	2607	2607
AAEE	-39	-79	Battery	776	776
Behind the meter PV	0	0	Muni/QF	406	406
Net Load	4110	4244	Solar	265	265
Transmission Losses	79	86	Demand Response	63	63
Pumps	390	390	Mothballed	0	0
Load+Losses+Pumps	4579	4720	Total Qualifying Capacity	4117	4117

* 2024 and 2028 generation capacity excludes Ormond Beach.

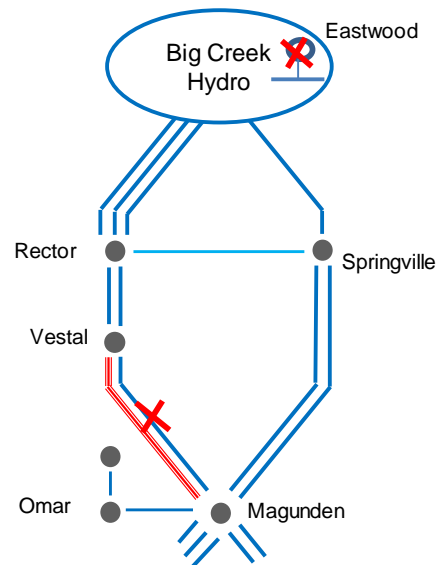
Rector Sub-Area Requirements

Category	Limiting Facility	Contingency	LCR (MW)	
			2024	2028
LCR for Rector is satisfied by the LCR of the larger Vestal sub-area				

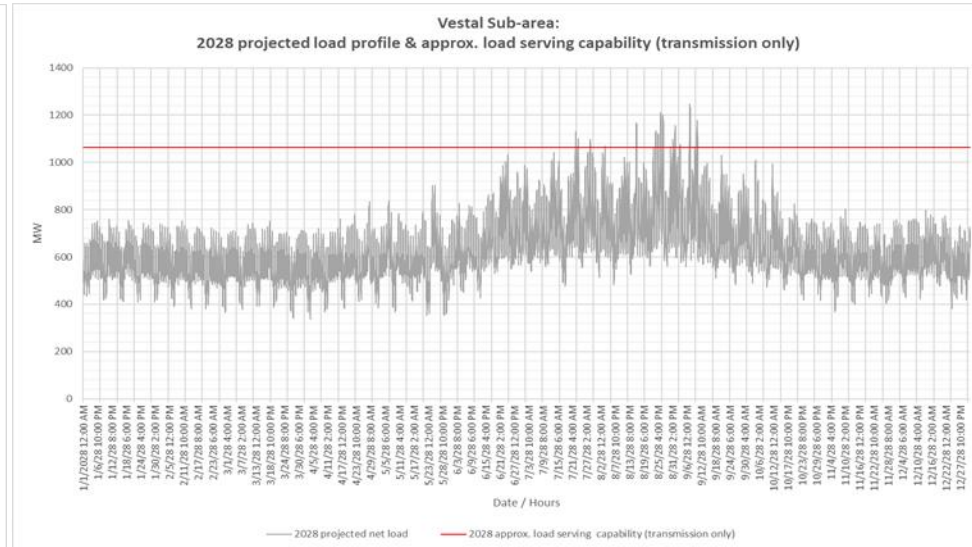
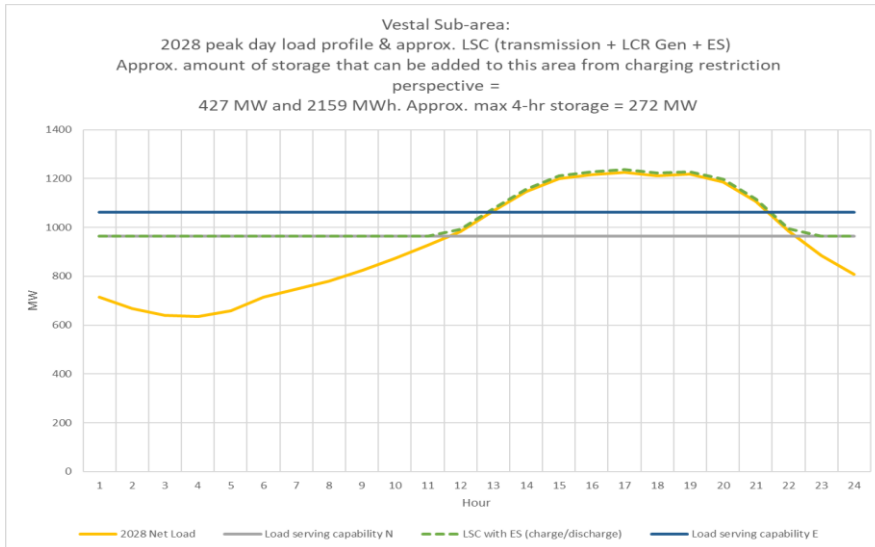
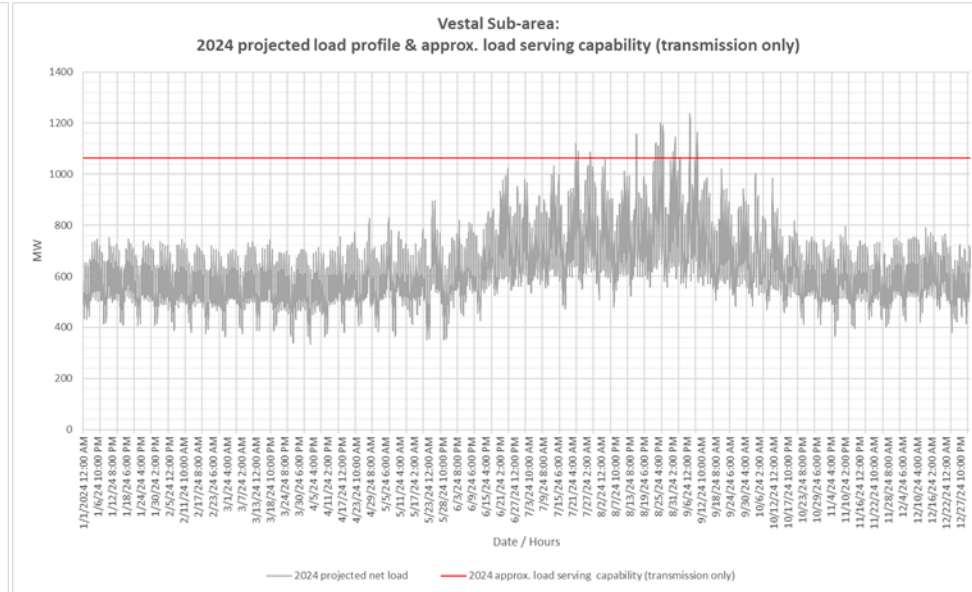
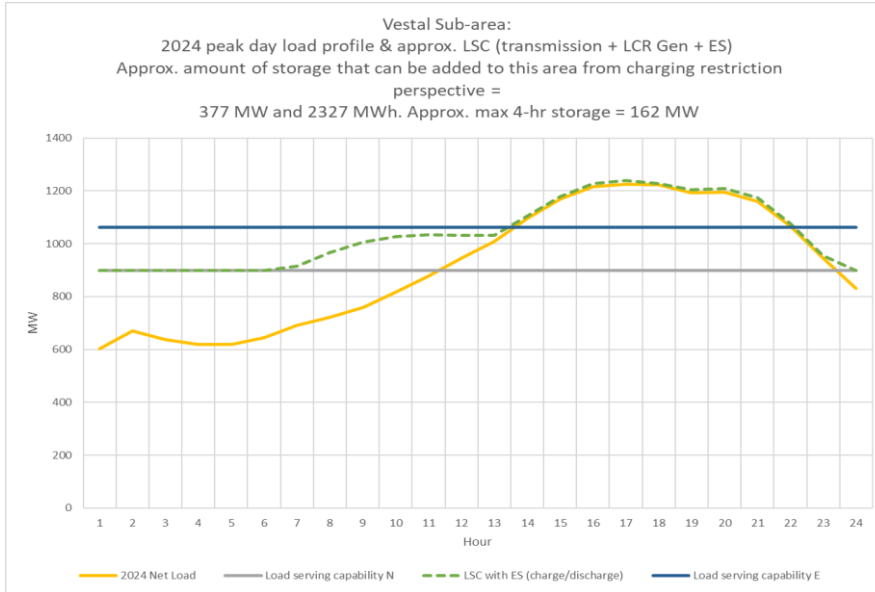


Vestal Sub-Area Requirements

Category	Limiting Facility	Contingency	LCR (MW)	
			2024	2028
P3/P6	Magunden–Vestal #1 230 kV line	Magunden–Vestal #2 230 kV line with Eastwood out of service	345	367

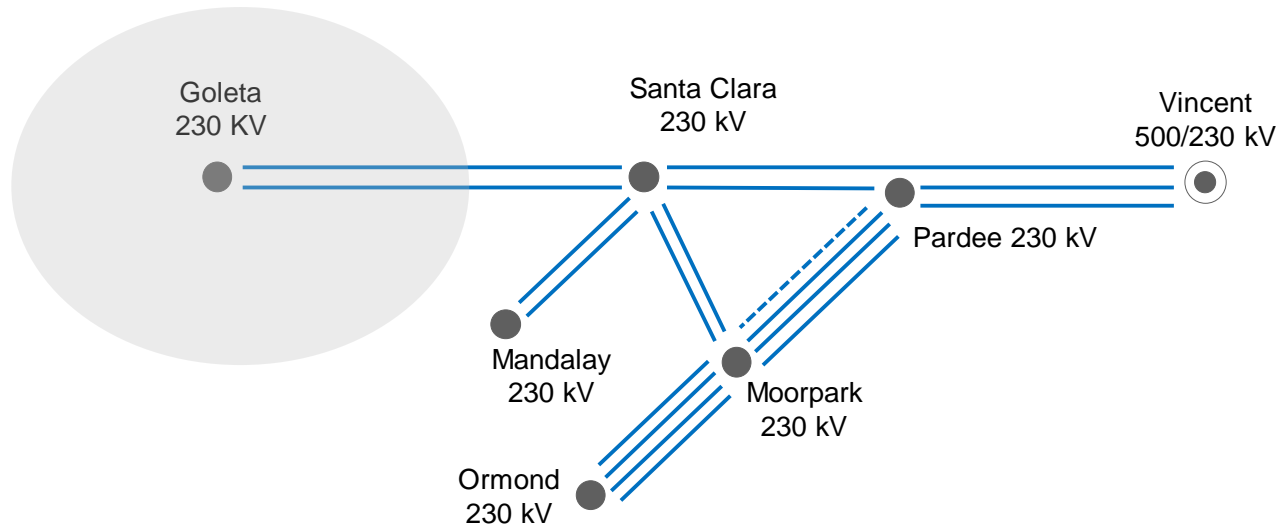


Vestal Sub-Area Load Profiles



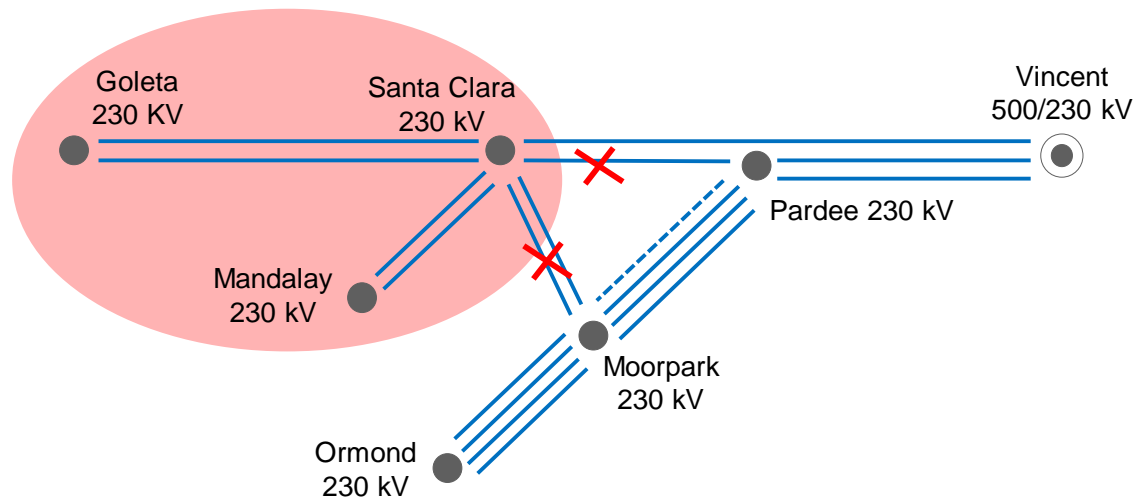
Goleta Sub-Area Requirements

Category	Limiting Facility	Contingency	LCR (MW)	
			2024	2028
LCR for Goleta is satisfied by the LCR of the larger Santa Clara sub-area				

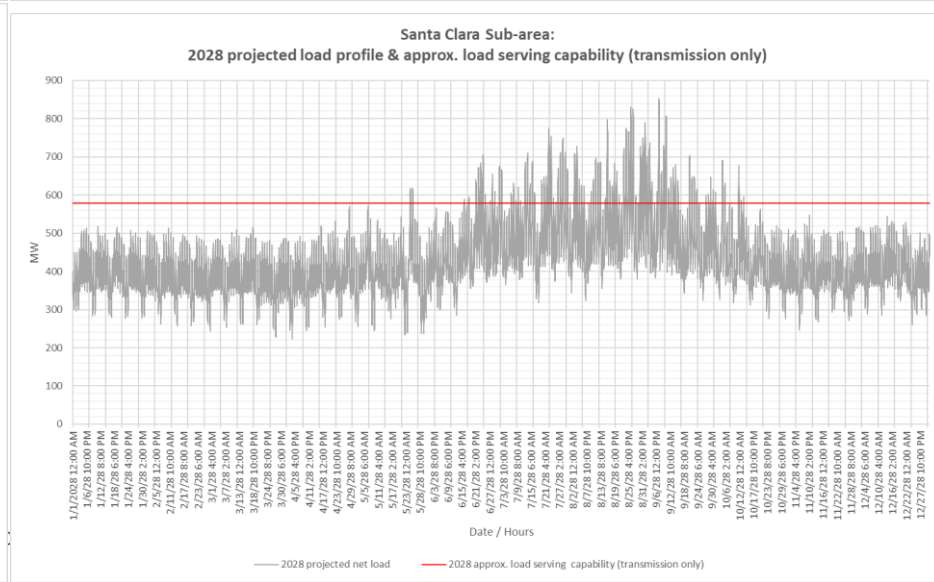
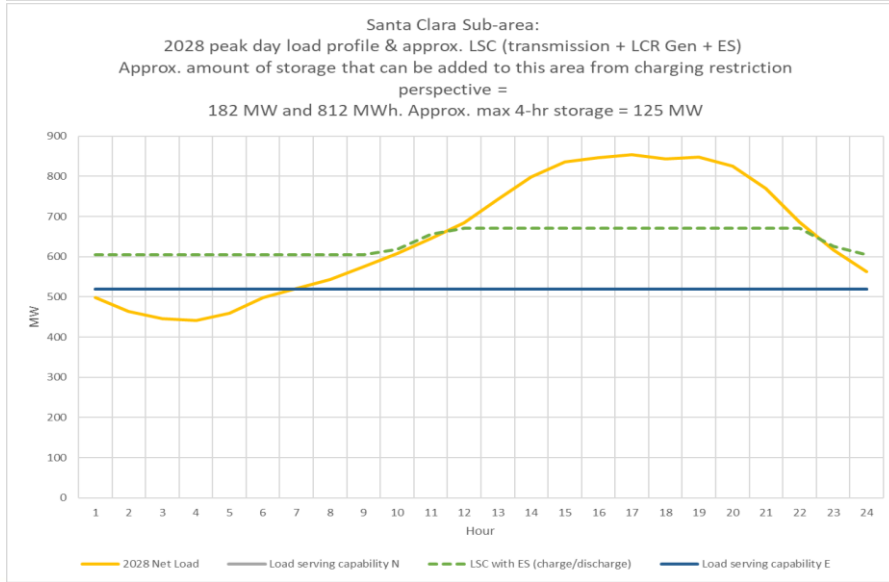
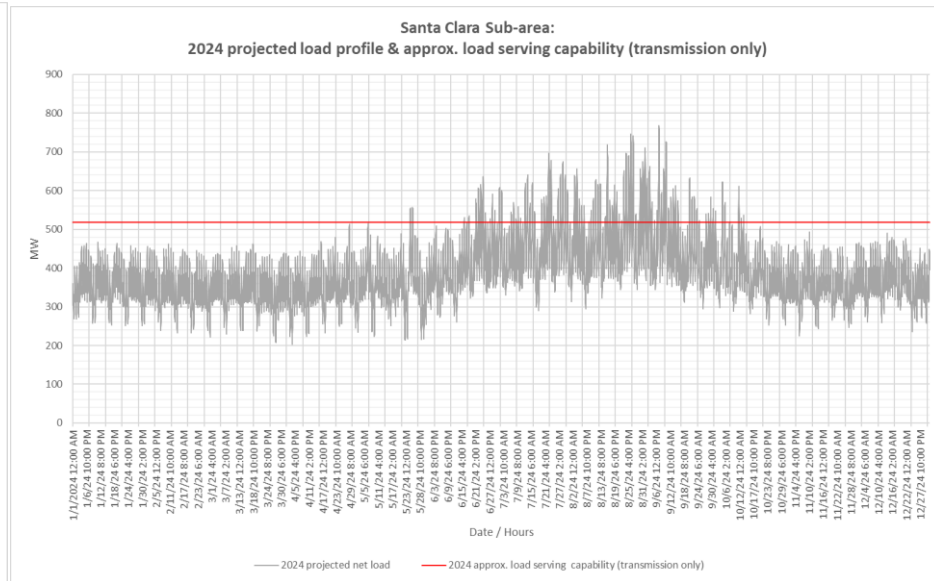
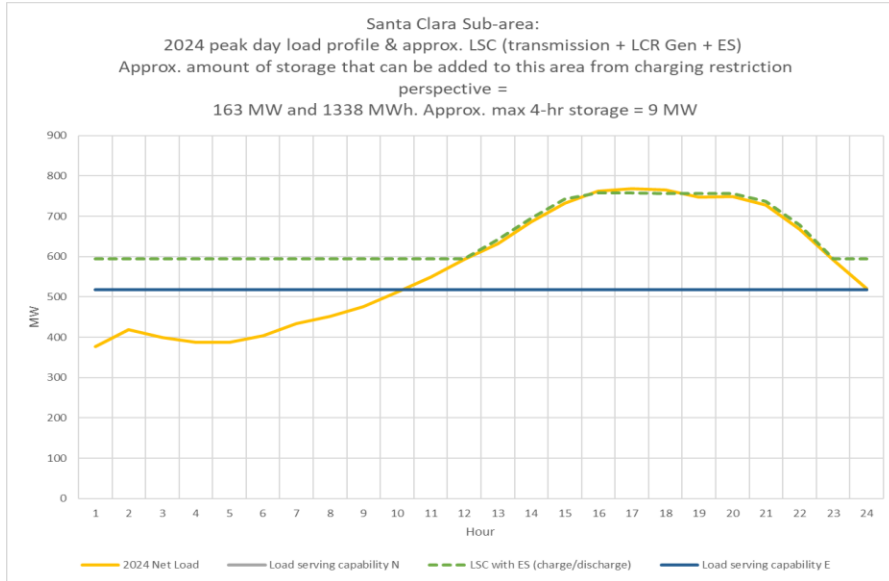


Santa Clara Sub-Area Requirements

Category	Limiting Facility	Contingency	LCR (MW)	
			2024	2028
P1+P7	Voltage Collapse	Pardee–Santa Clara 230 kV line followed by Moorpark–Santa Clara #1 and #2 230 kV DCTL	199	242

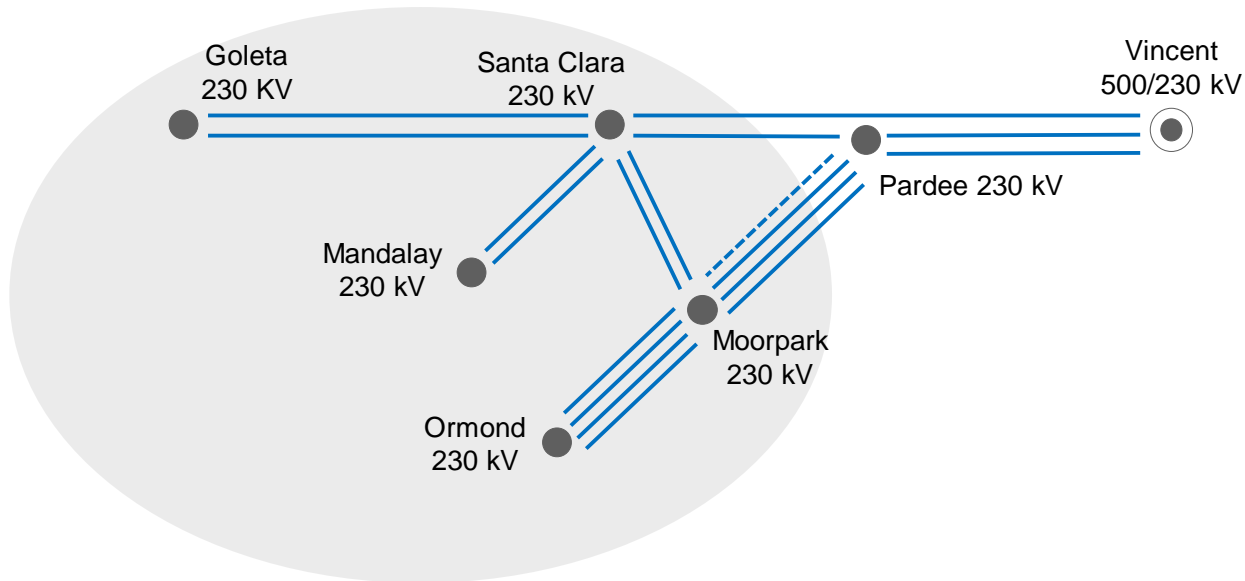


Santa Clara Sub-Area Load Profiles



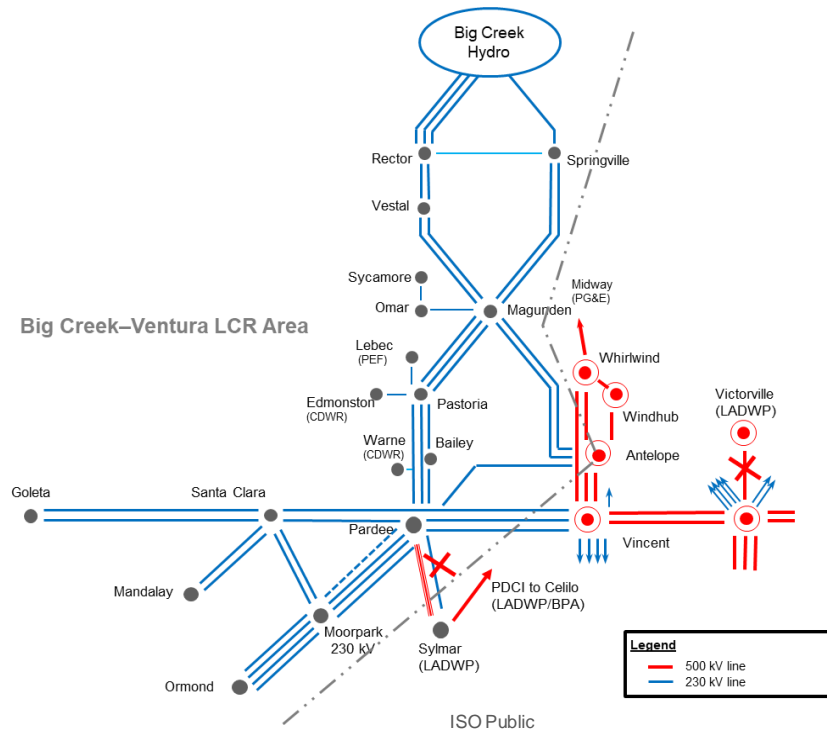
Moorpark Sub-Area Requirements

Category	Limiting Facility	Contingency	LCR (MW)	
			2024	2028
No LCR requirement identified				

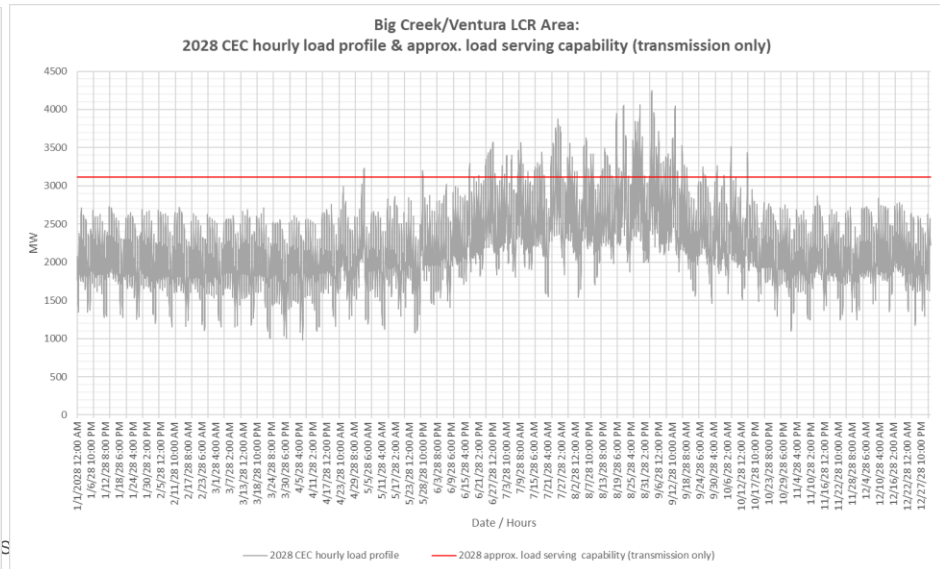
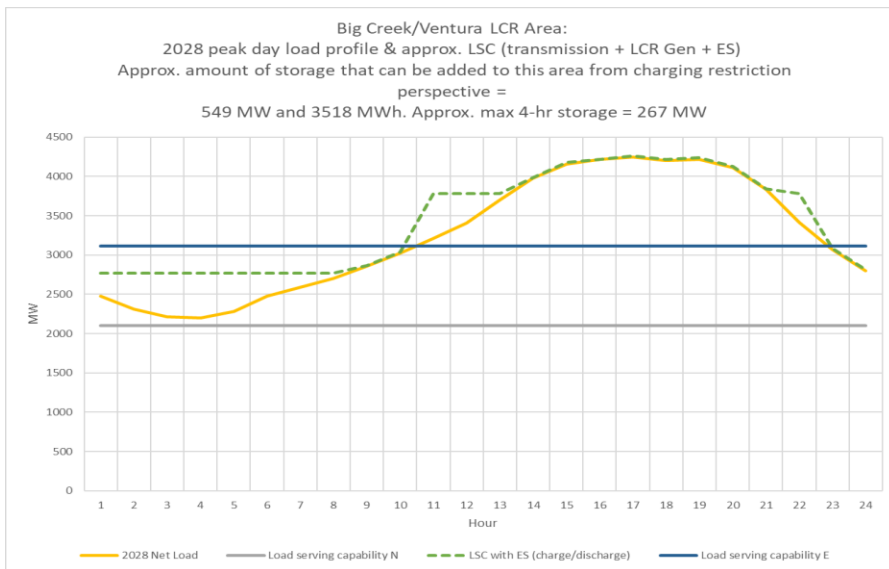
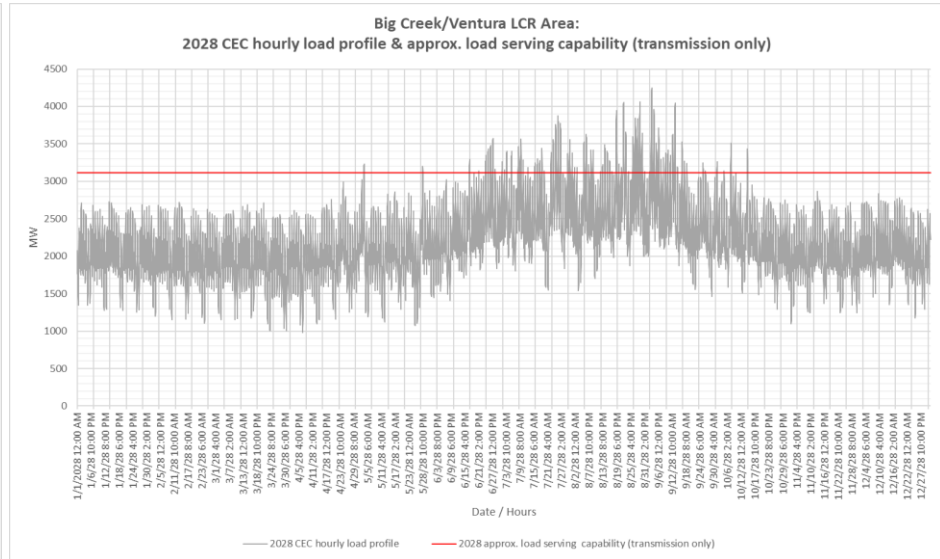
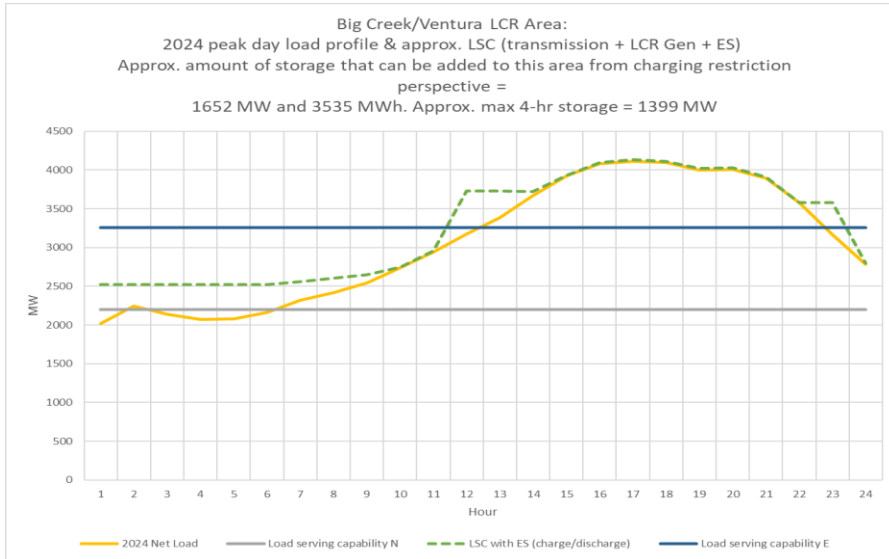


Overall Big Creek-Ventura Area Requirements

Category	Limiting Facility	Contingency	LCR (MW)	
			2024	2028
P6	Pardee-Sylmar #1 or #2 230 kV line	Overlapping outage of Lugo–Victorville 500 kV line and one Pardee-Sylmar 230 kV line	1,971	1,216



Overall Big Creek-Ventura Area Load Profiles



Big Creek Area Total LCR Need

2024 LCR Need	Existing Generation Capacity Needed (MW)	Deficiency (MW)	Total MW Need
Category P6	1,971	0	1,971

2028 LCR Need	Existing Generation Capacity Needed (MW)	Deficiency (MW)	Total MW Need
Category P6	1,216	0	1,216

Changes Compared to Last Year's Results - 2023

Sub-Area	2024		2023		Possible reason for LCR change
	Load (MW)	LCR (MW)	Load (MW)	LCR (MW)	
Rector	739	-	736	-	No change
Vestal	1,244	345	1,187	344	Load increased
Goleta	207	-	208	-	No change
Santa Clara	772	199	772	184	Load distribution change
Overall Big Creek Ventura	4,579	1,971	4,362	2,240	Decreased flow from Sylmar due to outage

Changes Compared to Last Year's Results - 2028

Sub-Area	2028		2027		Possible reason for LCR change
	Load (MW)	LCR (MW)	Load (MW)	LCR (MW)	
Rector	739	-	727	-	No change
Vestal	1,245	367	1,174	330	Load increased
Goleta	210	-	208	-	No change
Santa Clara	856	242	853	241	Load increase
Overall Big Creek Ventura	4,720	1,216	4,440	1,126	Load increase