



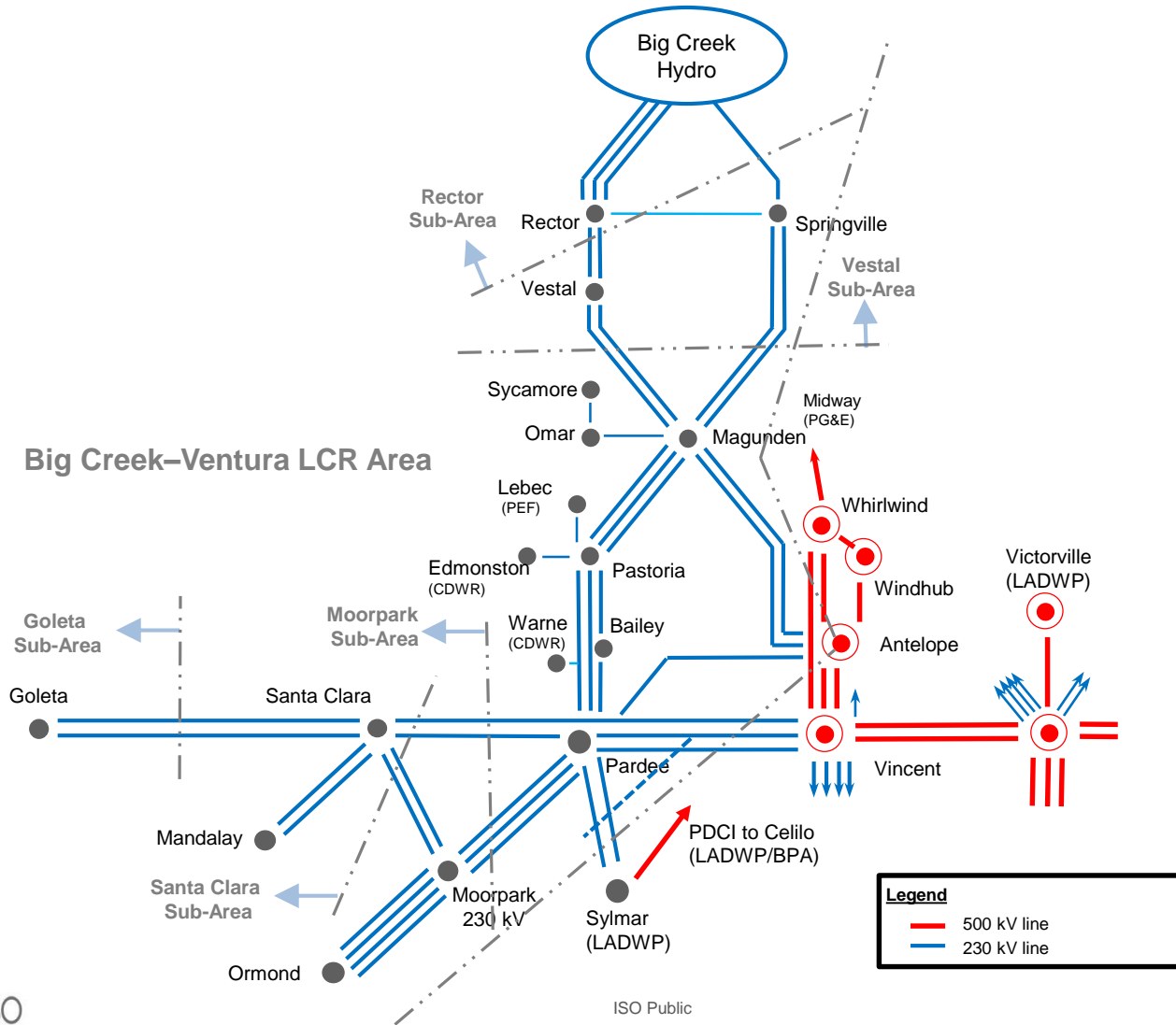
# 2025 & 2029 Final LCR Study Results Big Creek/Ventura Area

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Stakeholder Call

April 11, 2024

# Big Creek - Ventura Area Transmission System



# Major Transmission Projects

- Pardee-Sylmar 230 kV Rating Increase Project (ISD - October 2027)

## Resource Assumptions

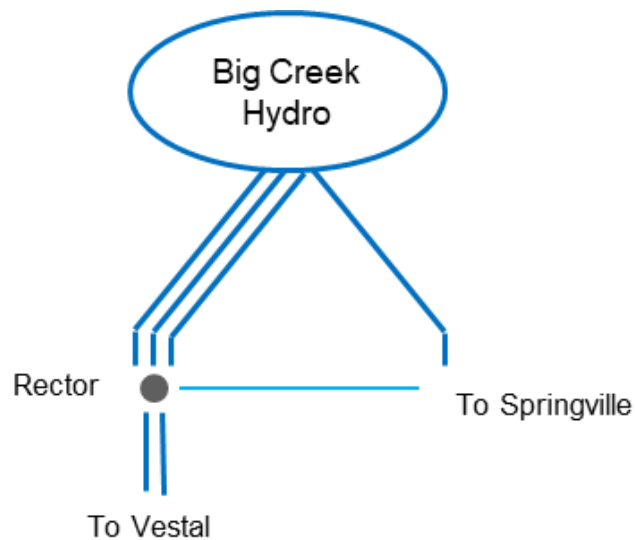
- Sylmar Bank E is out of service through 2026

# Load and Resources

Load (MW)			Generation August NQC (MW)*		
	2025	2029		2025	2029
Gross Load	4663	4791	Market/Net Seller	2554	2554
AAEE	-45	-93	Battery	1085	1085
Behind the meter PV	0	0	Muni/QF	399	399
<b>Net Load</b>	<b>4618</b>	<b>4698</b>	Solar	249	249
Transmission Losses	67	96	Demand Response	63	63
Pumps	390	390	Mothballed	0	0
<b>Load+Losses+Pumps</b>	<b>5075</b>	<b>5184</b>	<b>Total Qualifying Capacity</b>	<b>4350</b>	<b>4350</b>

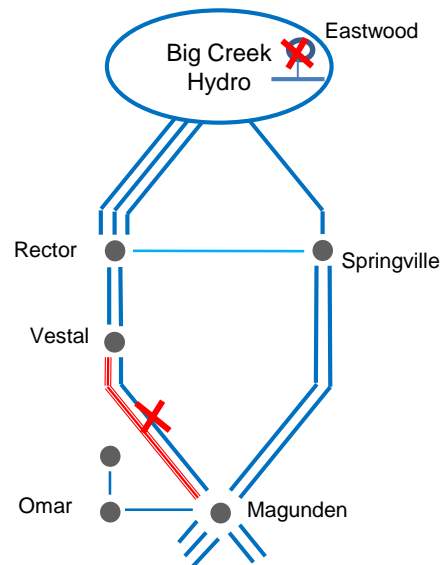
# Rector Sub-Area Requirements

Category	Limiting Facility	Contingency	LCR (MW)	
			2025	2029
LCR for Rector is satisfied by the LCR of the larger Vestal sub-area				

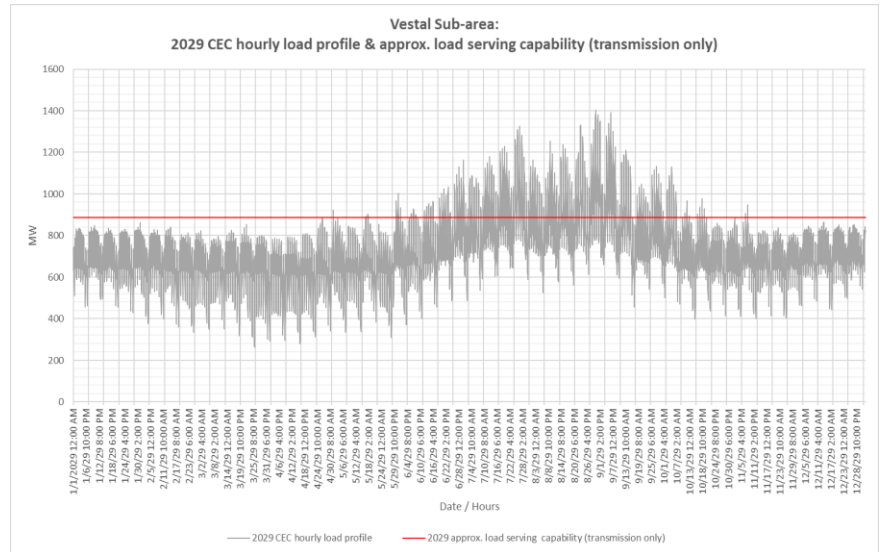
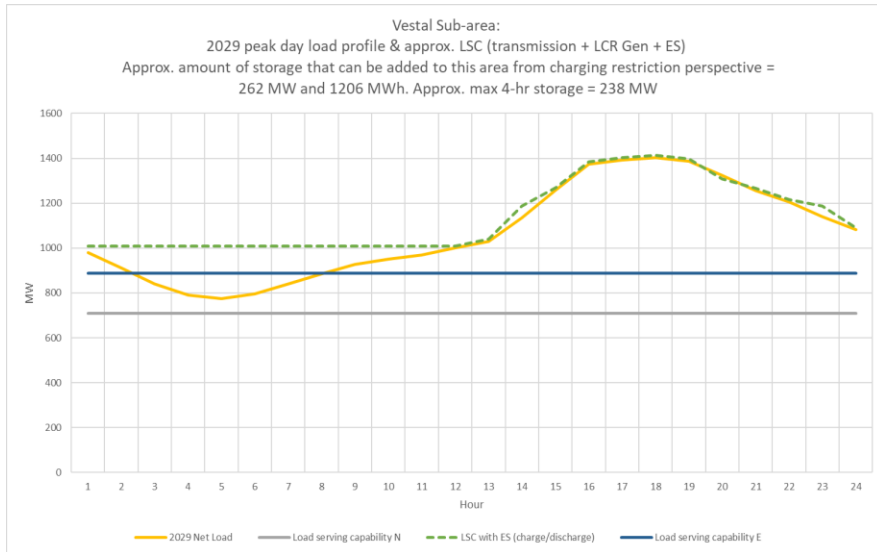
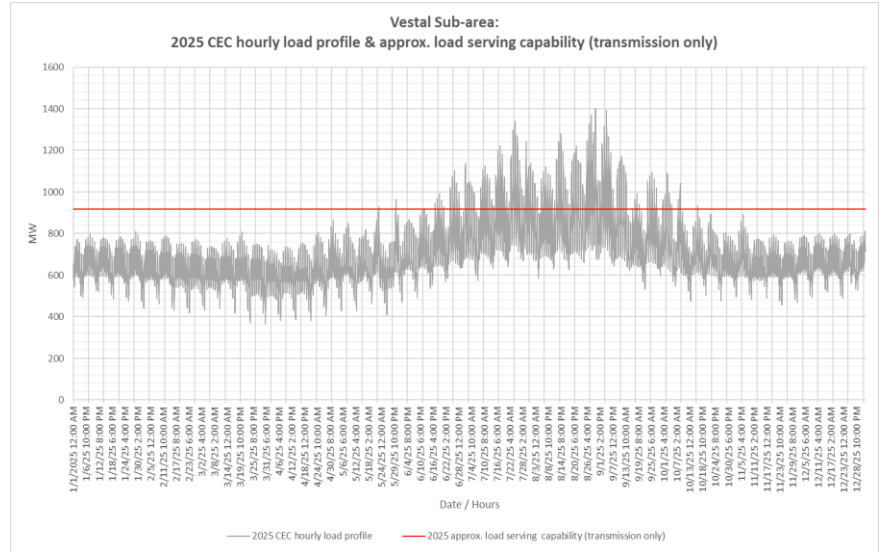
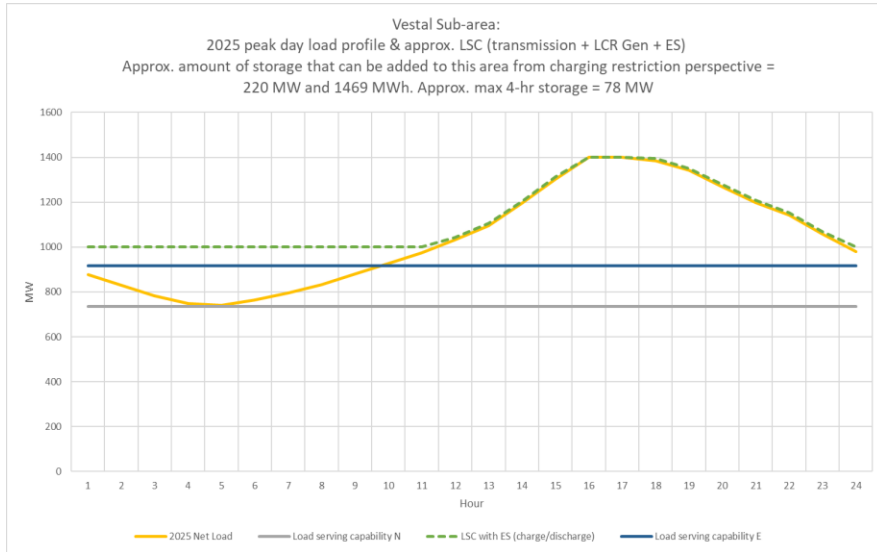


# Vestal Sub-Area Requirements

Category	Limiting Facility	Contingency	LCR (MW)	
			2025	2029
P3/P6	Magunden–Vestal #1 230 kV line	Magunden–Vestal #2 230 kV line with Eastwood out of service	485	517

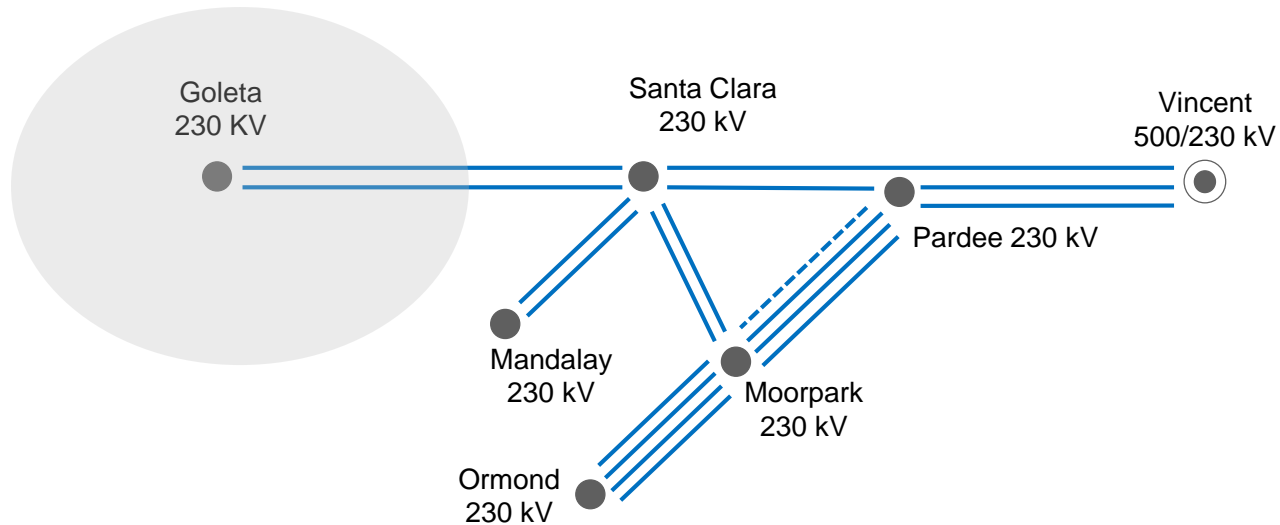


# Vestal Sub-Area Load Profiles



# Goleta Sub-Area Requirements

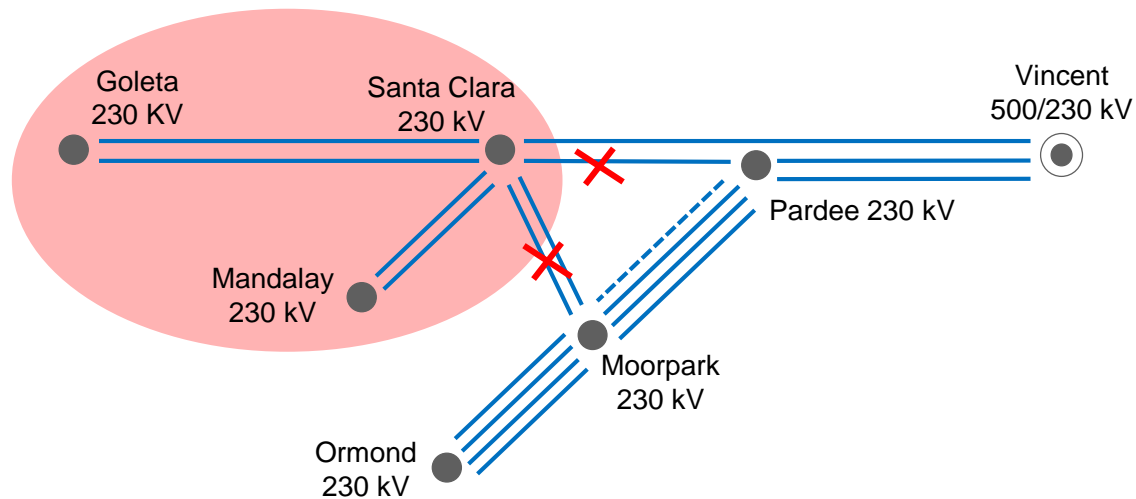
Category	Limiting Facility	Contingency	LCR (MW)	
			2025	2029
LCR for Goleta is satisfied by the LCR of the larger Santa Clara sub-area				



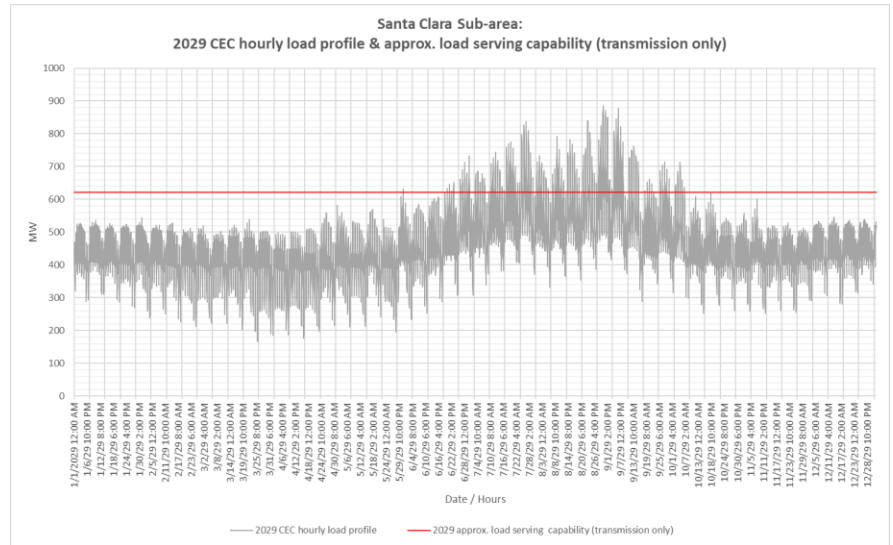
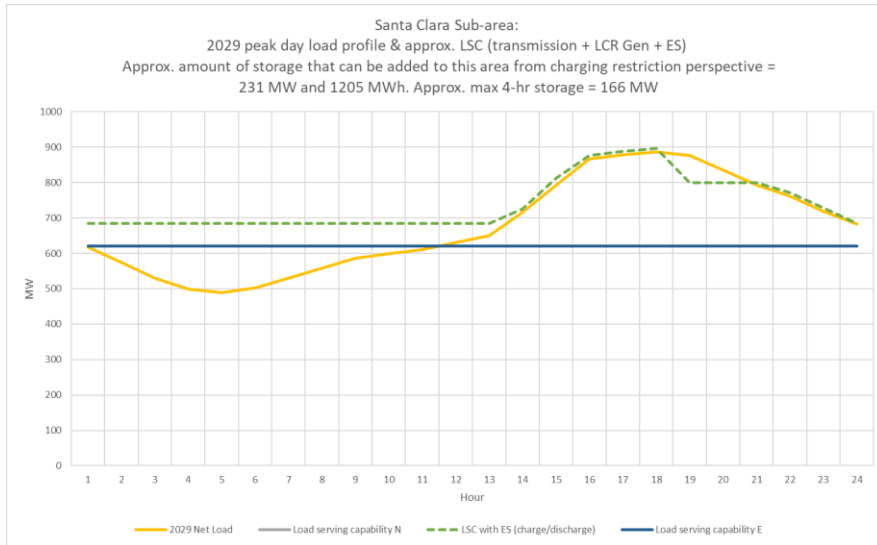
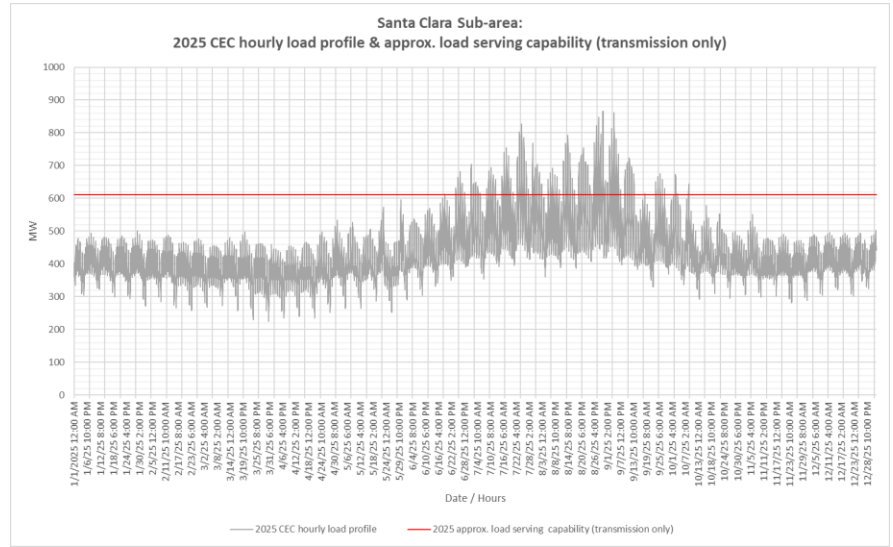
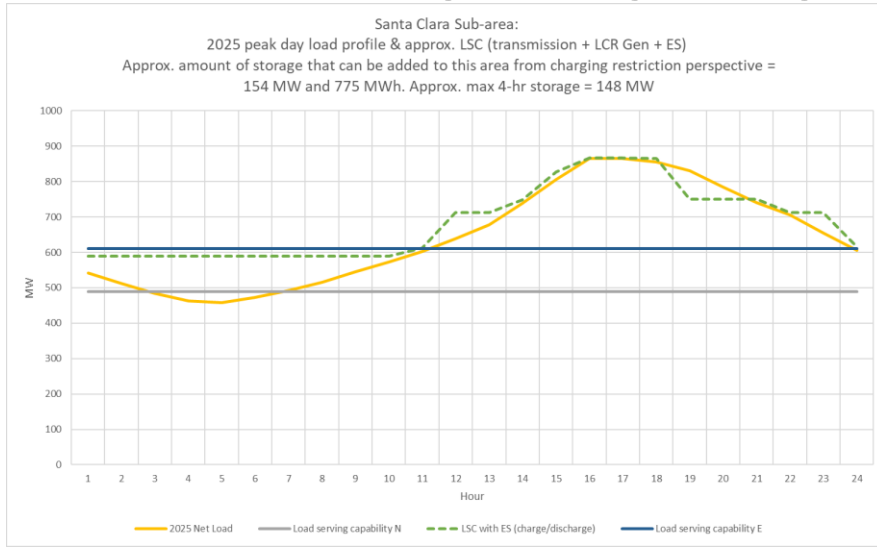


# Santa Clara Sub-Area Requirements

Category	Limiting Facility	Contingency	LCR (MW)	
			2025	2029
P1+P7	Voltage Collapse	Pardee–Santa Clara 230 kV line followed by Moorpark–Santa Clara #1 and #2 230 kV DCTL	255	265

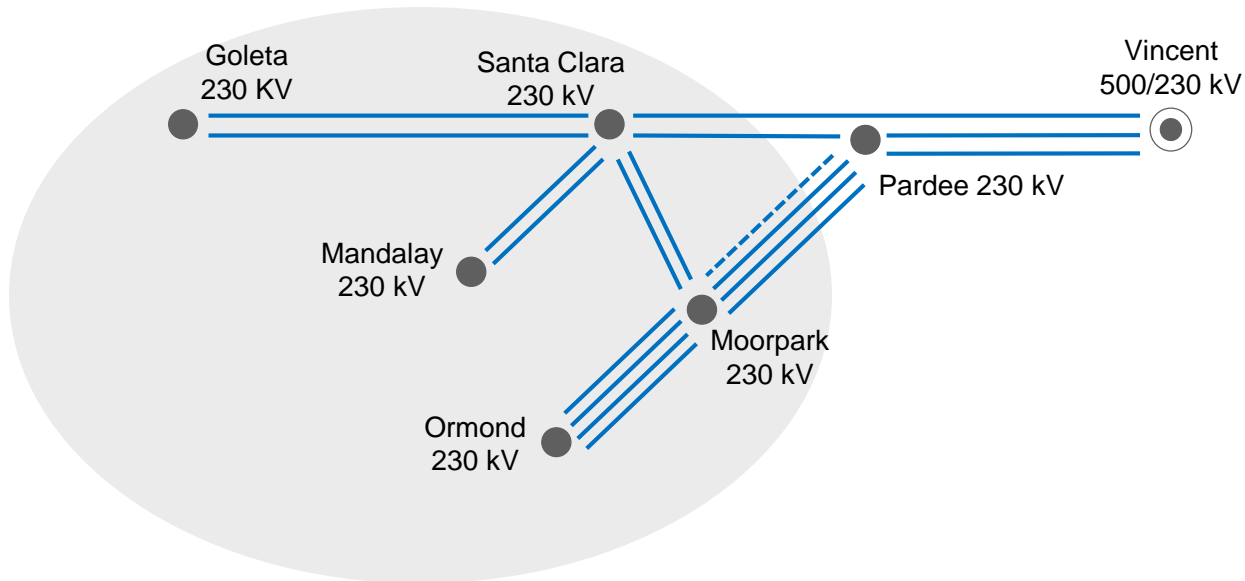


# Santa Clara Sub-Area Load Profiles



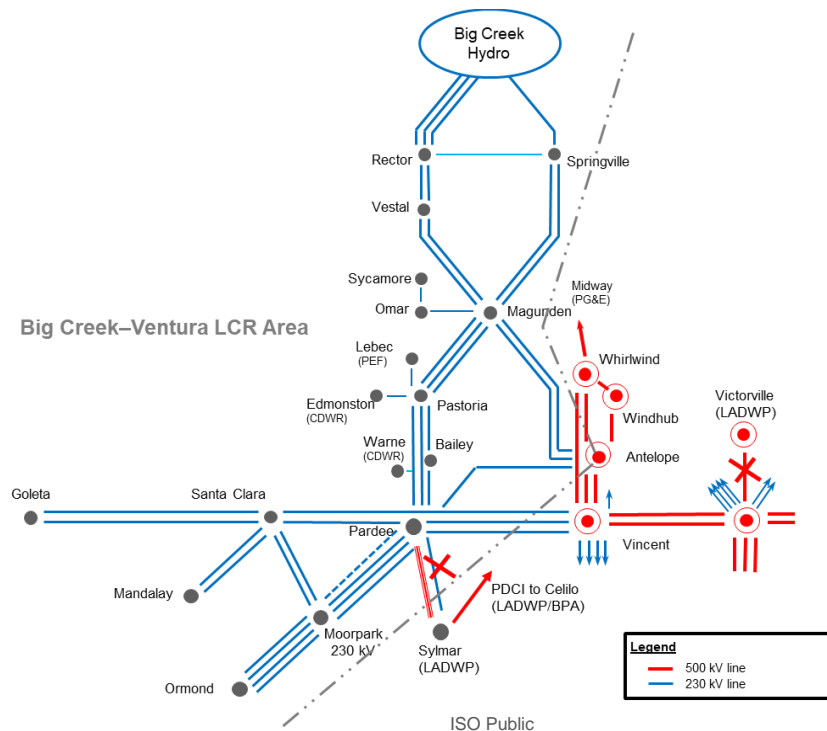
# Moorpark Sub-Area Requirements

Category	Limiting Facility	Contingency	LCR (MW)	
			2025	2029
No LCR requirement identified				

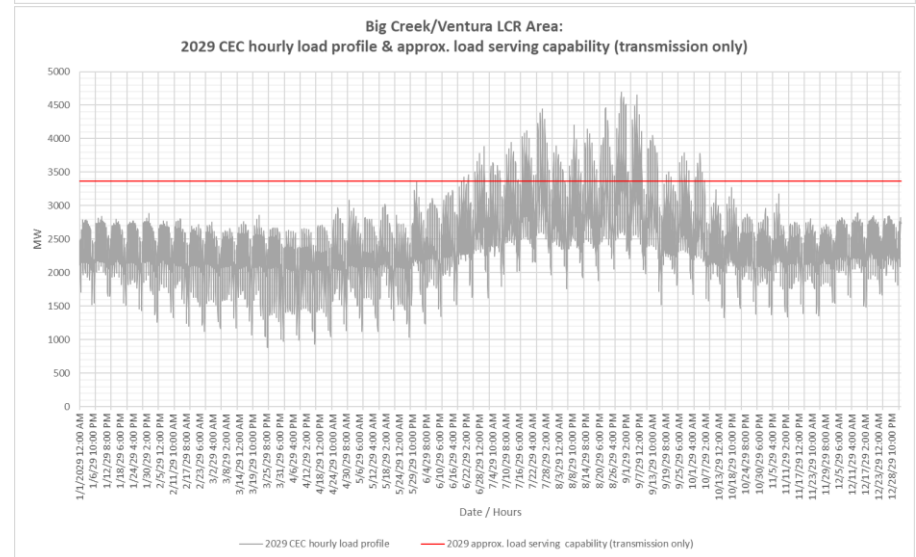
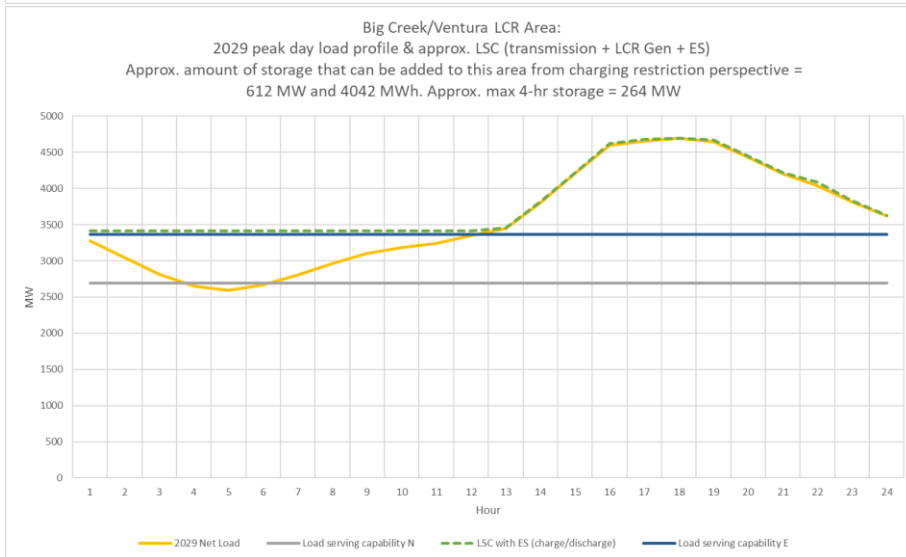
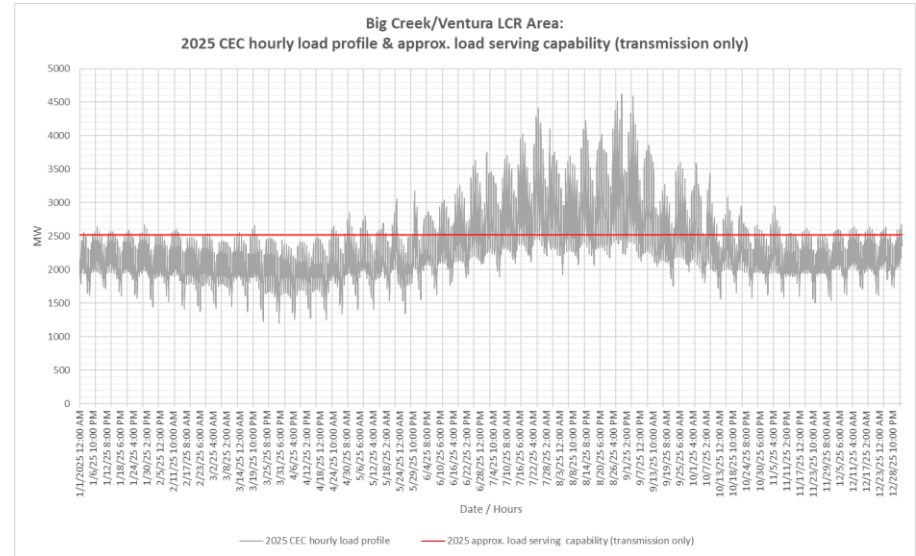
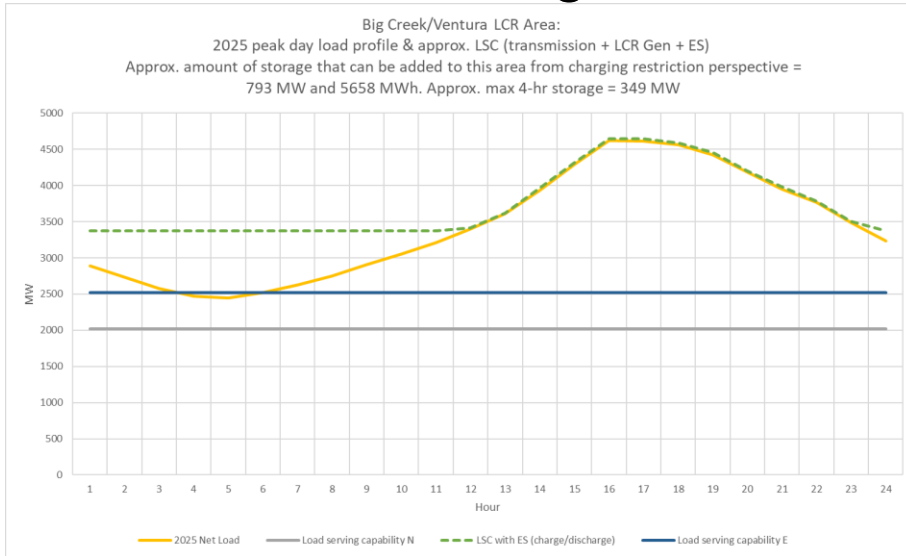


# Overall Big Creek-Ventura Area Requirements

Category	Limiting Facility	Contingency	LCR (MW)	
			2025	2029
P6	Pardee-Sylmar #1 or #2 230 kV line	Overlapping outage of Lugo–Victorville 500 kV line and one Pardee-Sylmar 230 kV line	2,145	1,329



# Overall Big Creek-Ventura Area Load Profiles



# Big Creek Area Total LCR Need

2025 LCR Need	Existing Generation Capacity Needed (MW)	Deficiency (MW)	Total MW Need
Category P6	2,145	0	2,145

2029 LCR Need	Existing Generation Capacity Needed (MW)	Deficiency (MW)	Total MW Need
Category P6	1,329	0	1,329

# Changes Compared to Last Year's Results – 1 Year

Sub-Area	2025		2024		Possible reason for LCR change
	Load (MW)	LCR (MW)	Load (MW)	LCR (MW)	
Rector	859	-	739	-	No Change
Vestal	1,399	485	1,244	345	Load Increased
Goleta	223	-	207	-	No Change
Santa Clara	865	255	772	199	Load Increased
Overall Big Creek Ventura	5,075	2,145	4,579	1,971	Load Increased

# Changes Compared to Last Year's Results – 5 Year

Sub-Area	2029		2028		Possible reason for LCR change
	Load (MW)	LCR (MW)	Load (MW)	LCR (MW)	
Rector	861	-	739	-	No Change
Vestal	1,400	517	1,245	367	Load Increased
Goleta	224	-	210	-	No Change
Santa Clara	884	265	856	242	Load Increase
Overall Big Creek Ventura	5,184	1,329	4,720	1,216	Load Increase