



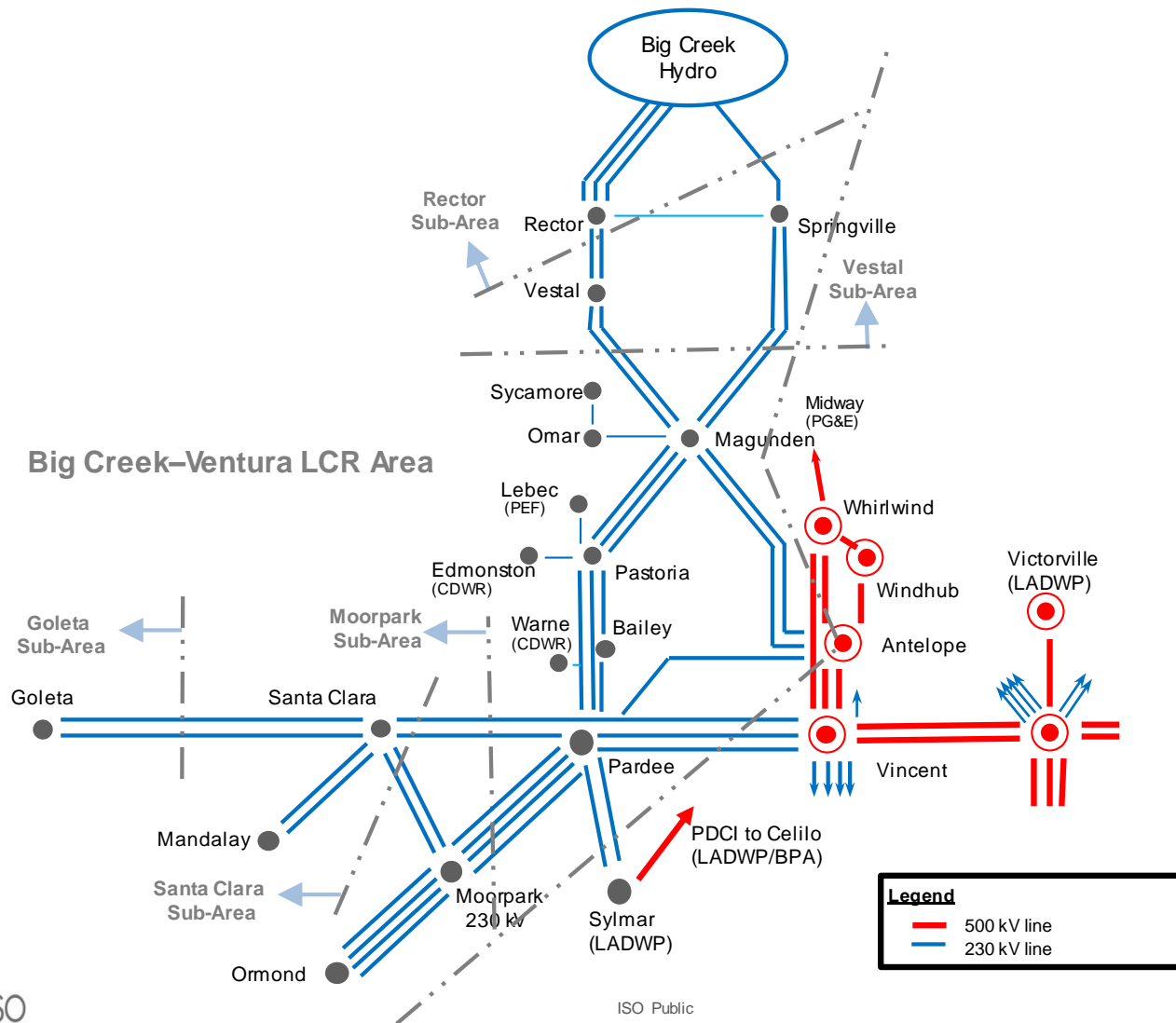
2026 & 2030 Final LCR Study Results Big Creek/Ventura Area

Anuj Hiray
Sr. Regional Transmission Engineer

Stakeholder Call

April 10, 2025

Big Creek - Ventura Area Transmission System



Major Transmission Projects

- Pardee-Sylmar 230 kV Rating Increase Project (ISD - June 2029)

Assumptions:

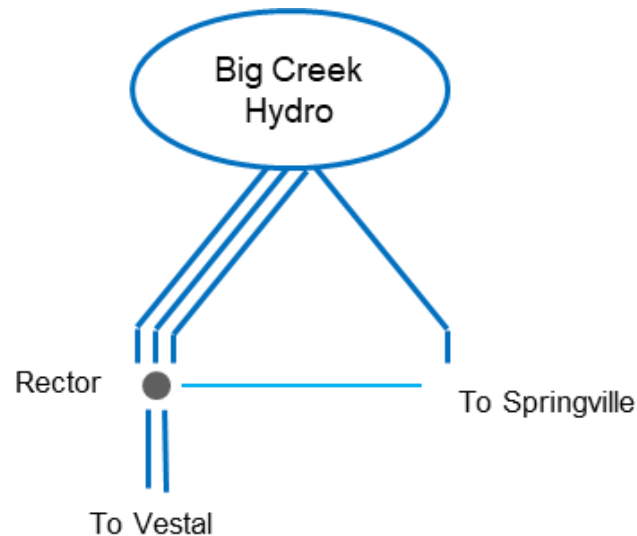
- Sylmar Bank E is out of service through 2026

Load and Resources

Load (MW)			Generation August NQC (MW)*		
	2026	2030		2026	2030
Gross Load	4551	4807	Market/Net Seller/Wind	2572	2572
AAEE	-61	0	Battery/Hybrid	1623	1623
Behind the meter PV	0	0	Muni/QF	448	448
Net Load	4490	4807	Solar	400	400
Transmission Losses	86	113	Demand Response	63	63
Pumps	223	219	Mothballed	0	0
Load+Losses+Pumps	4799	5139	Total Qualifying Capacity	5106	5106

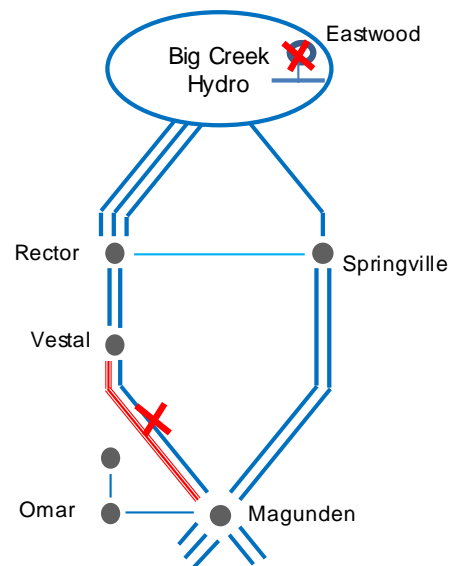
Rector Sub-Area Requirements

Category	Limiting Facility	Contingency	LCR (MW)	
			2026	2030
LCR for Rector is satisfied by the LCR of the larger Vestal sub-area				

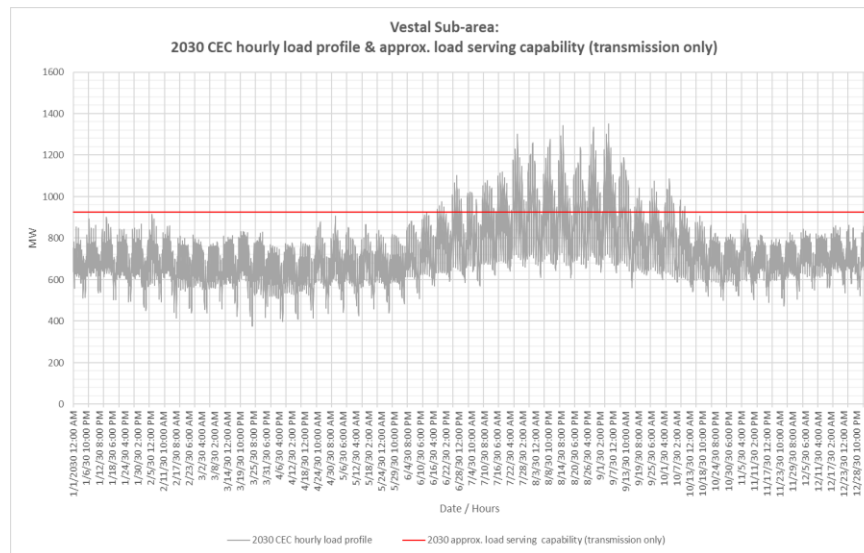
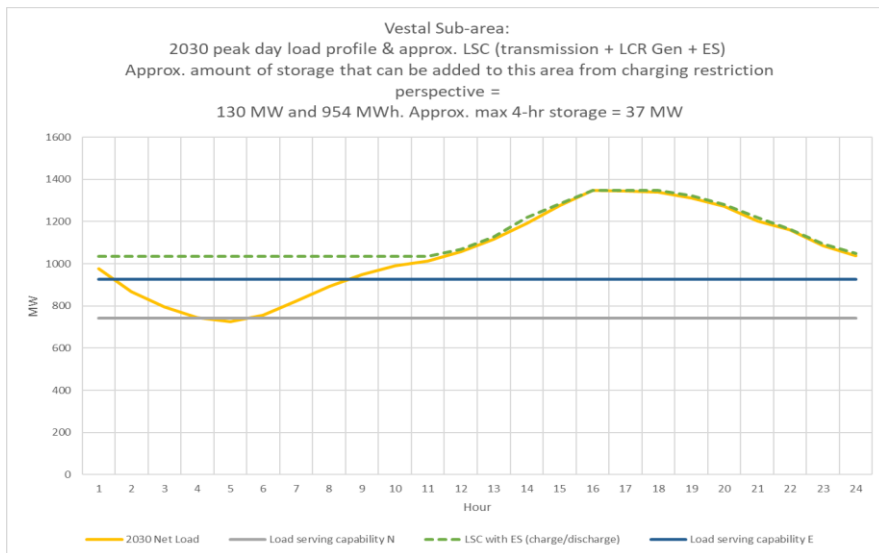
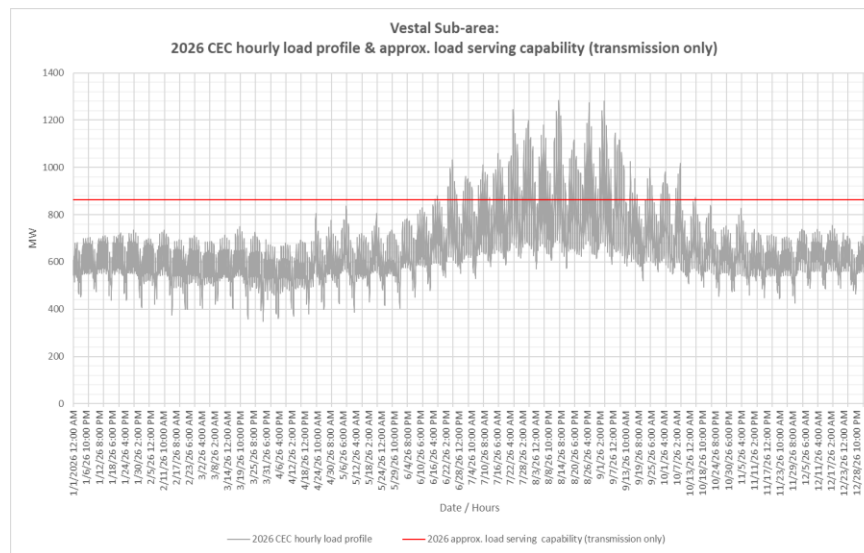
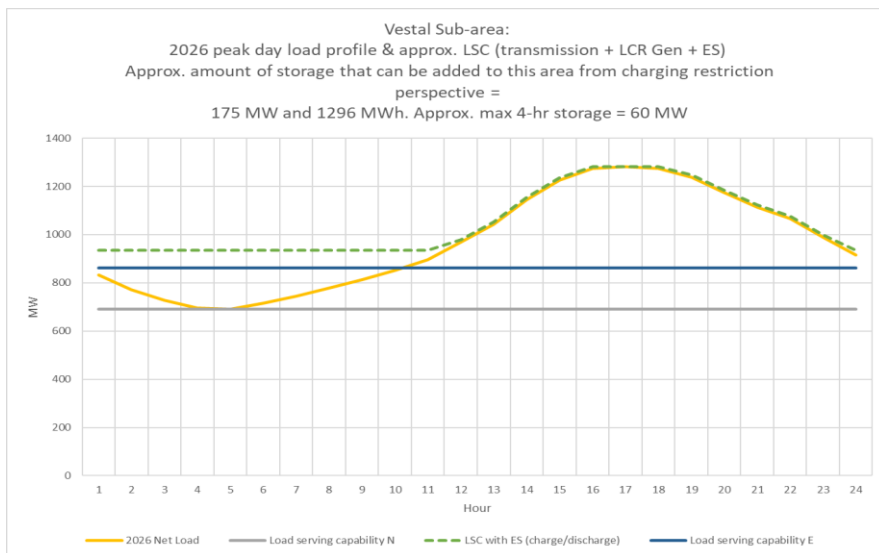


Vestal Sub-Area Requirements

Category	Limiting Facility	Contingency	LCR (MW)	
			2026	2030
P3/P6	Magunden–Vestal #1 230 kV line	Magunden–Vestal #2 230 kV line with Eastwood out of service	421	423

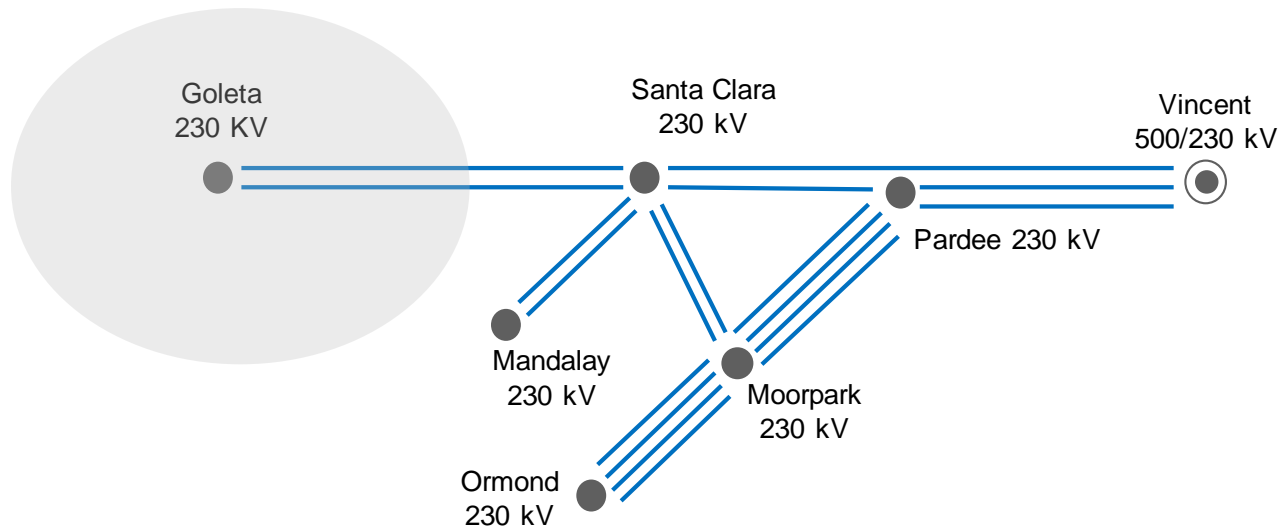


Vestal Sub-Area Load Profiles



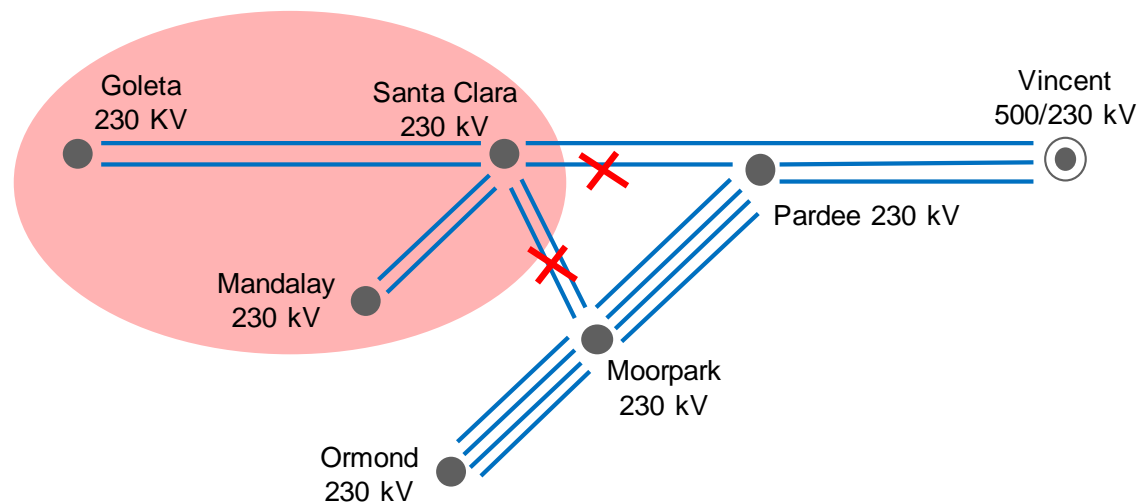
Goleta Sub-Area Requirements

Category	Limiting Facility	Contingency	LCR (MW)	
			2026	2030
LCR for Goleta is satisfied by the LCR of the larger Santa Clara sub-area				

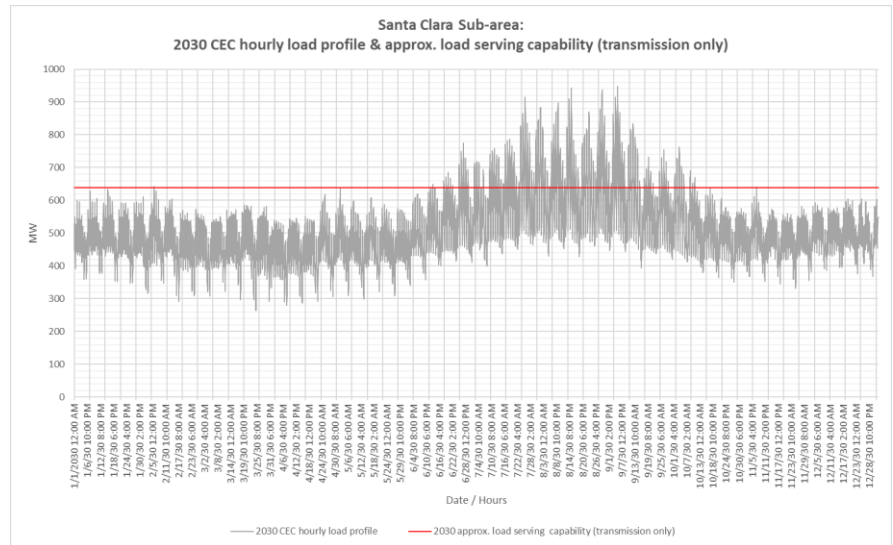
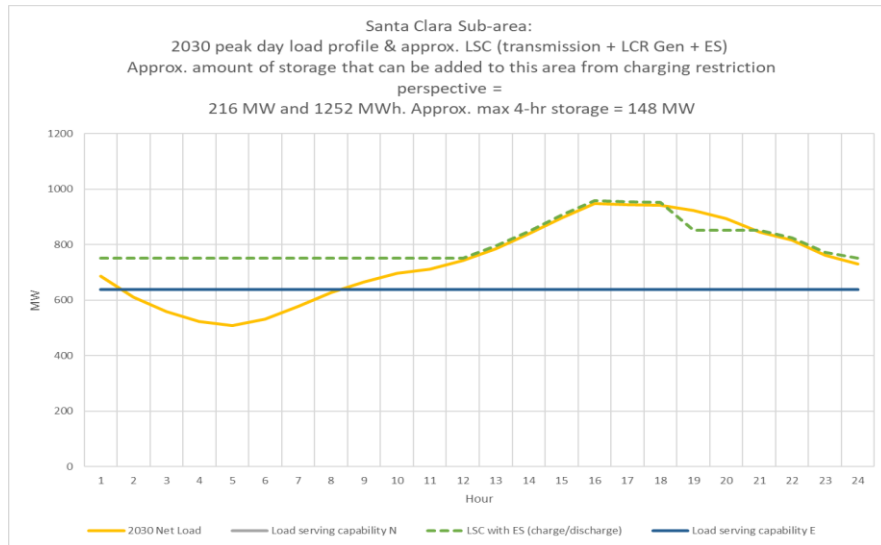
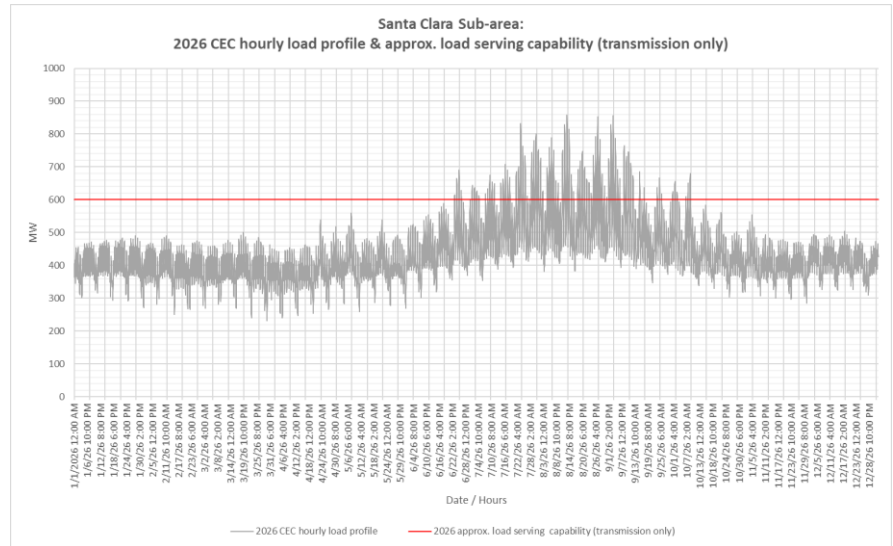
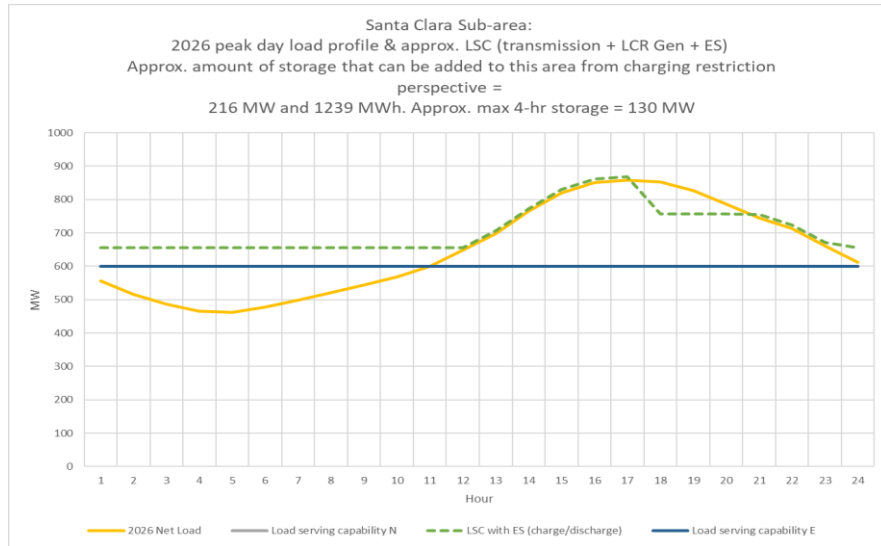


Santa Clara Sub-Area Requirements

Category	Limiting Facility	Contingency	LCR (MW)	
			2026	2030
P1+P7	Voltage Collapse	Pardee–Santa Clara 230 kV line followed by Moorpark–Santa Clara #1 and #2 230 kV DCTL	258	310

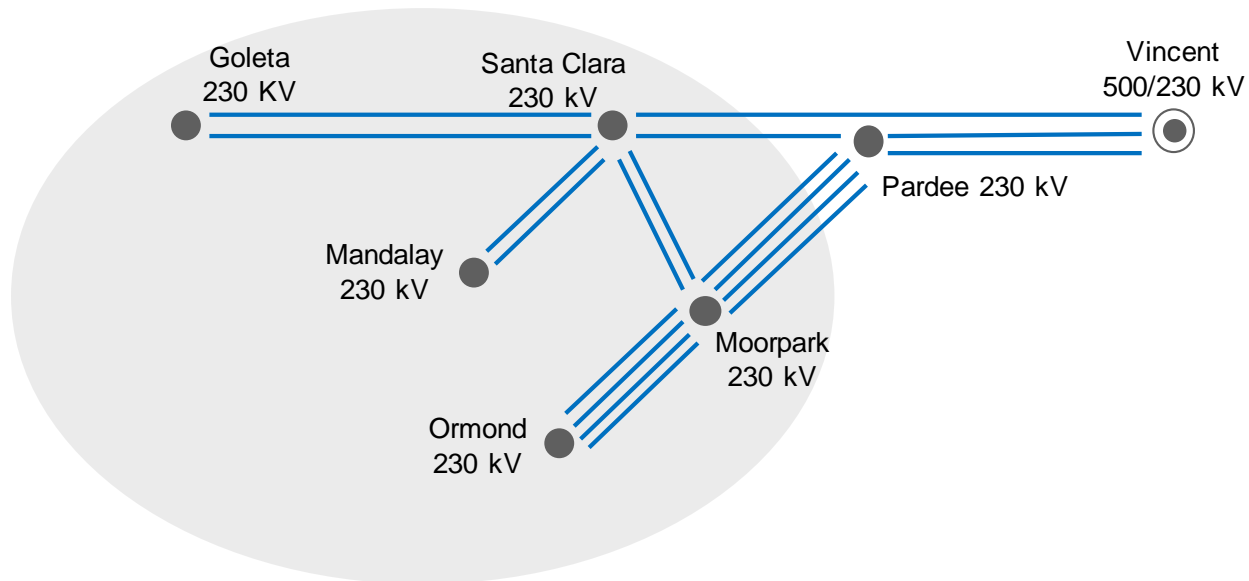


Santa Clara Sub-Area Load Profiles



Moorpark Sub-Area Requirements

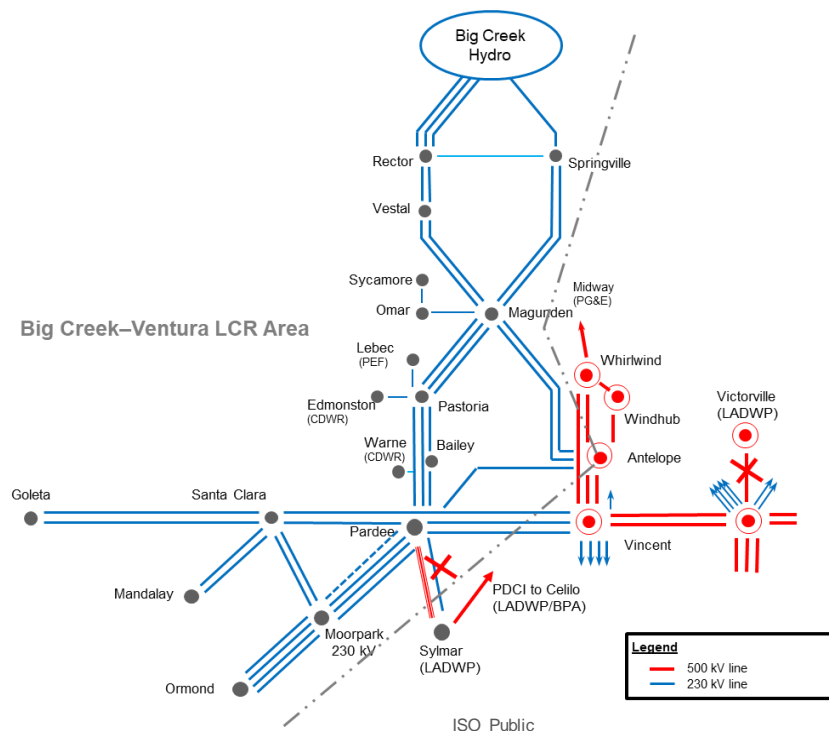
Category	Limiting Facility	Contingency	LCR (MW)	
			2026	2030
No LCR requirement identified				



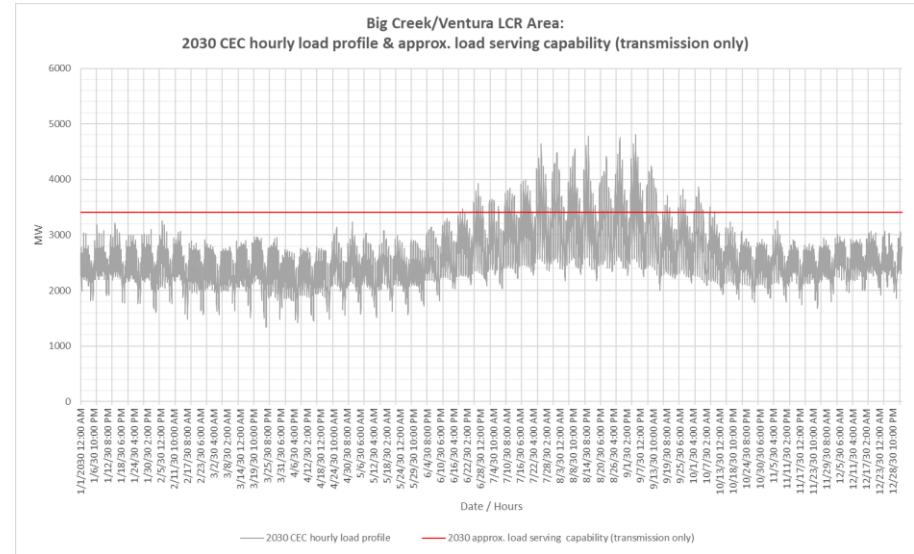
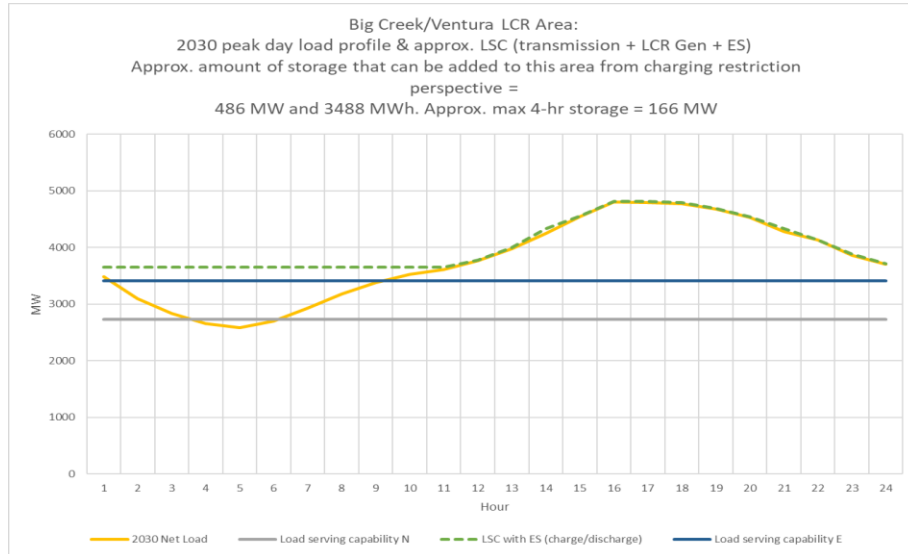
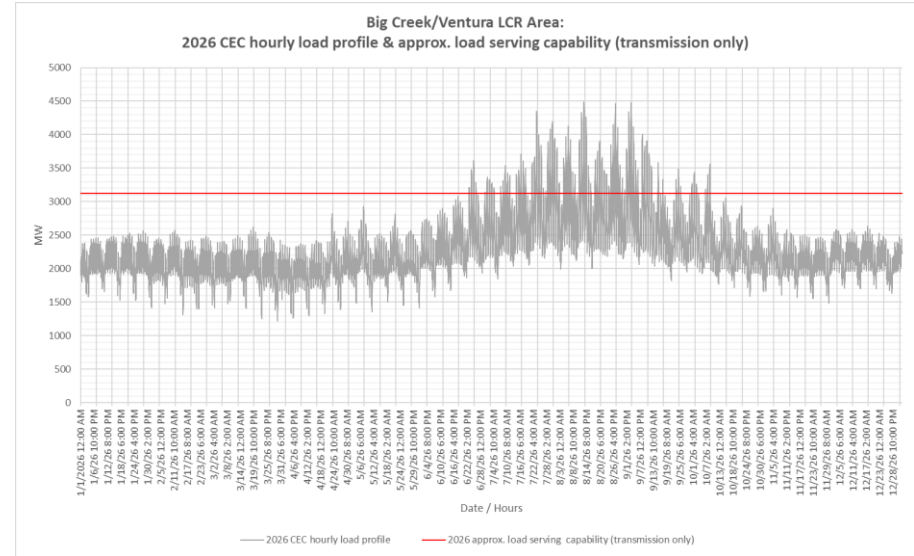
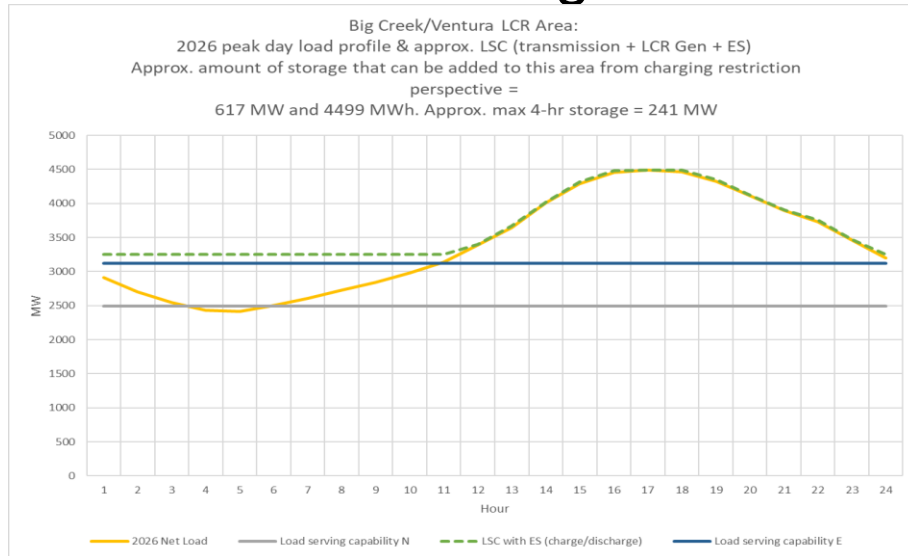
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Overall Big Creek-Ventura Area Requirements

Category	Limiting Facility	Contingency	LCR (MW)	
			2026	2030
P6	Pardee-Sylmar #1 or #2 230 kV line	Overlapping outage of Lugo–Victorville 500 kV line and one Pardee-Sylmar 230 kV line	1,369	1,381



Overall Big Creek-Ventura Area Load Profiles



Big Creek Area Total LCR Need

2026 LCR Need	Existing Generation Capacity Needed (MW)	Deficiency (MW)	Total MW Need
Category P6	1,369	0	1,369

2030 LCR Need	Existing Generation Capacity Needed (MW)	Deficiency (MW)	Total MW Need
Category P6	1,381	0	1,381

Changes Compared to Last Year's Results – 1 Year

Sub-Area	2026		2025		Possible reason for LCR change
	Load (MW)	LCR (MW)	Load (MW)	LCR (MW)	
Rector	768	-	859	-	No Change
Vestal	1,226	421	1,399	485	Load Decrease
Goleta	241	-	223	-	No Change
Santa Clara	848	258	865	255	Load Distribution Change
Overall Big Creek Ventura	4,799	1,369	5,075	2,145	Load Decrease

Changes Compared to Last Year's Results – 5 Year

Sub-Area	2030		2029		Possible reason for LCR change
	Load (MW)	LCR (MW)	Load (MW)	LCR (MW)	
Rector	796	-	861	-	No Change
Vestal	1,279	423	1,400	517	Load Decrease
Goleta	246	-	224	-	No Change
Santa Clara	857	310	884	265	Load Distribution Change
Overall Big Creek Ventura	5,139	1,381	5,184	1,329	Load Distribution Change