



# 2026 & 2030 Draft LCR Study Results Kern Area

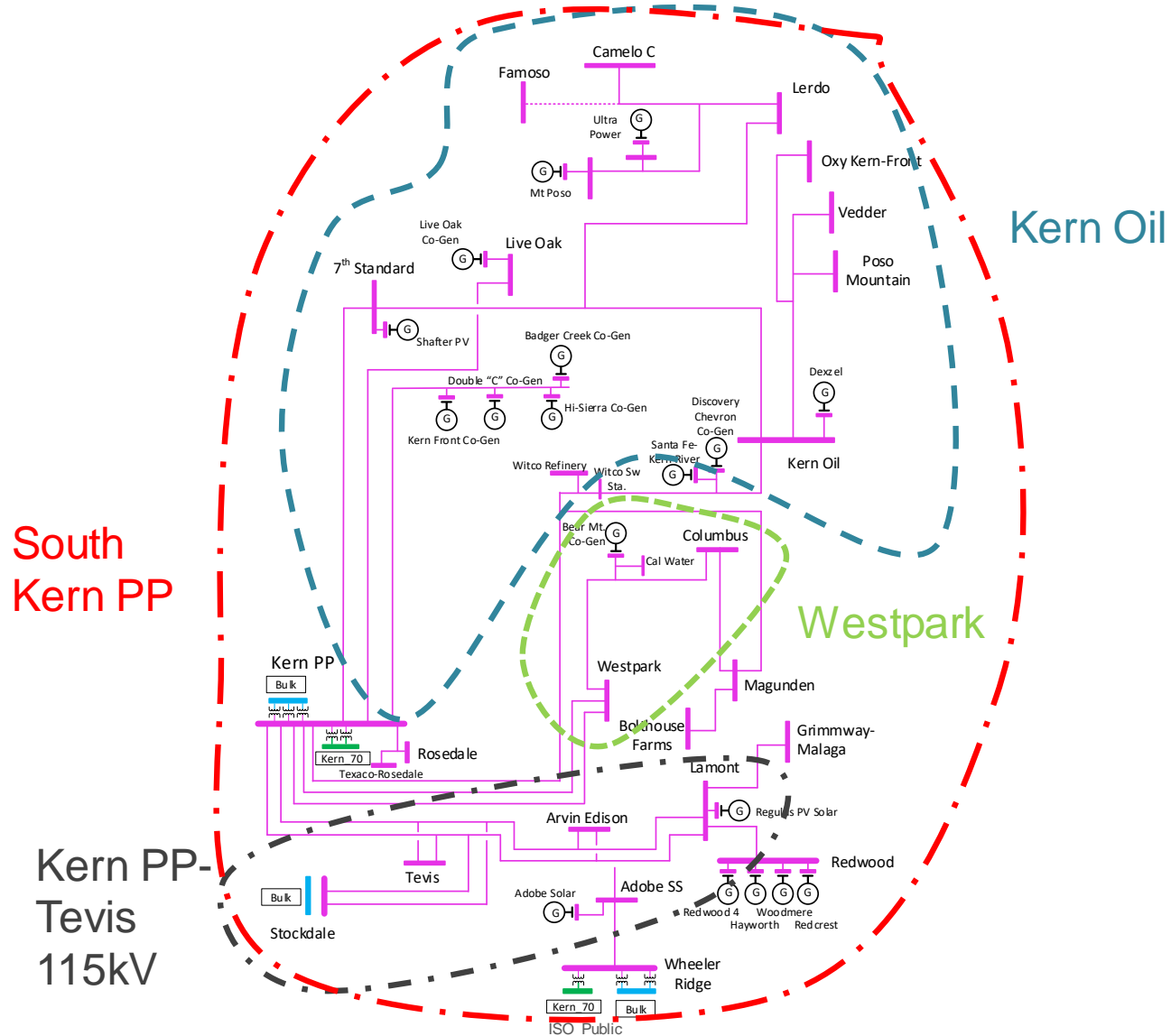
Yara Khalaf

Senior Regional Transmission Engineer

Stakeholder Call

March 6, 2025

# Kern Area LCR Sub-Areas



# Major new projects

Project Name	Expected ISD
Midway-Temblor 115 kV Line Reconductor & Voltage Support	October-2027
Bakersfield Nos. 1 and 2 230 kV Tap Lines Reconductoring	August-2027
Kern PP 115 kV Area Reinforcement	July- 2027
Wheeler Ridge Junction Station Project	Q4-2032

## Kern Area Overall: Load and Resources

<b>Load (MW)</b>	<b>2026</b>	<b>2030</b>	<b>Generation (MW)</b>	<b>2026</b>	<b>2030</b>
Gross Load	1002	1063	Market/ Net Seller	368	368
AAEE	-15	-25	Battery	0	0
Behind the meter DG	-25	-31	MUNI/QF	12	12
<b>Net Load</b>	<b>962</b>	<b>1007</b>	Solar	71	71
Transmission Losses	9	9	Existing 20 minute DR	9	9
Pumps	0	0	Mothballed	0	0
<b>Load + Losses + Pumps</b>	<b>971</b>	<b>1016</b>	<b>Total Qualifying Capacity</b>	<b>460</b>	<b>460</b>

# Kern Area LCR

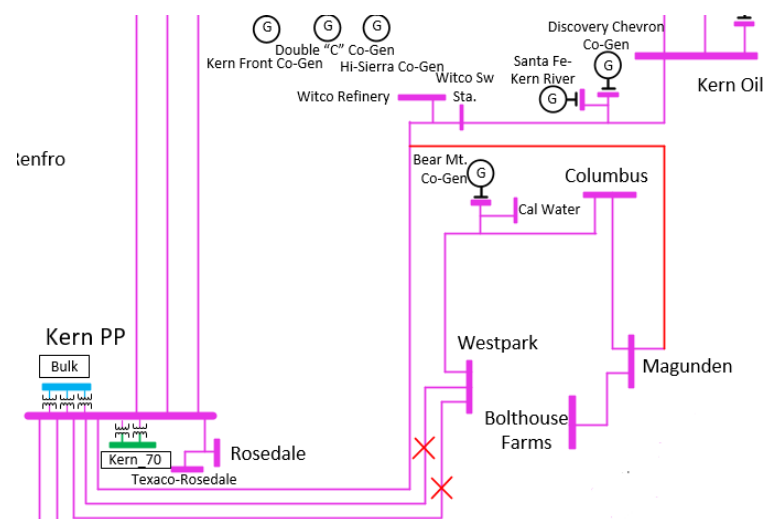
## Kern Power-Tevis Sub-Area

Year	Category	Limiting Facility	Contingency	LCR (MW) (Deficiency)
2026	N/A		Not Binding	N/A
2030	N/A		Not Binding	N/A

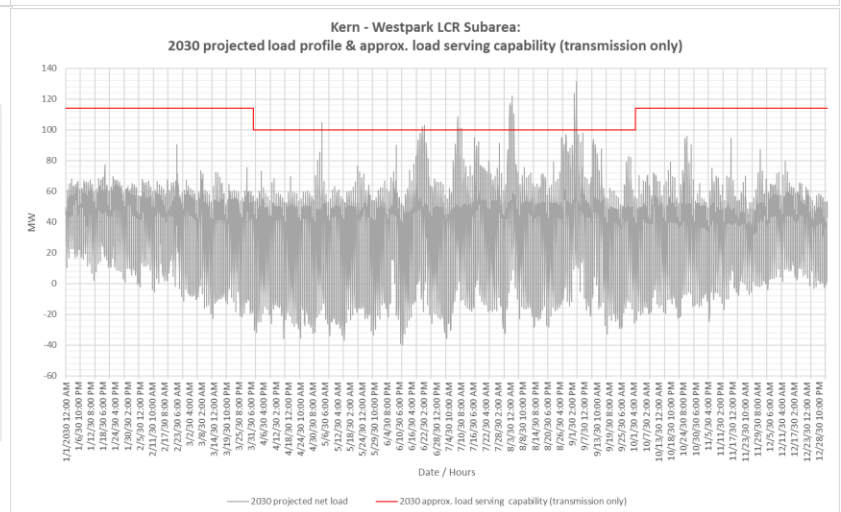
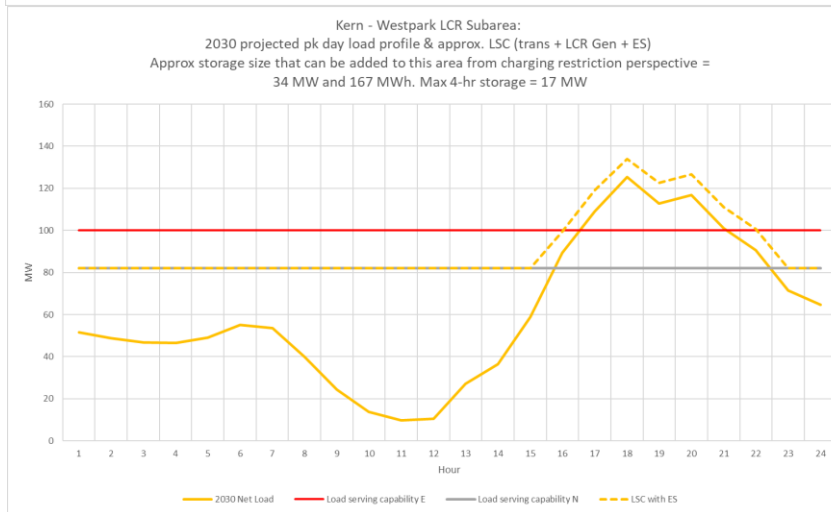
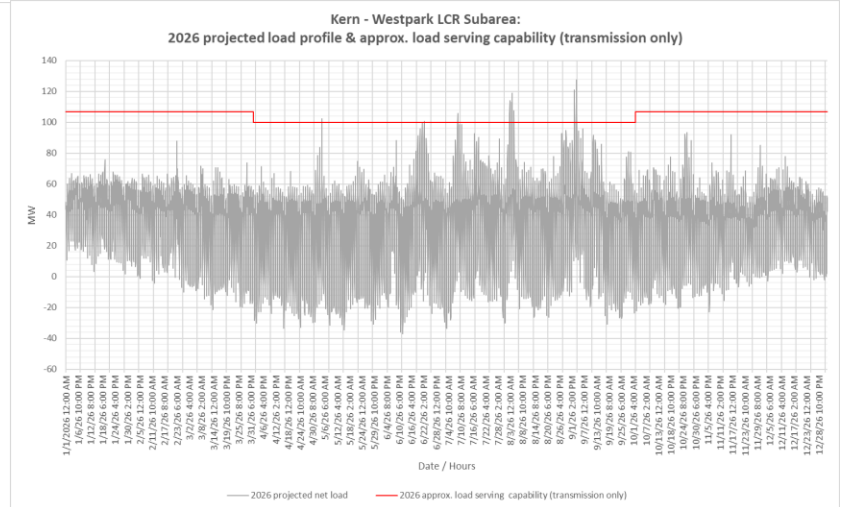
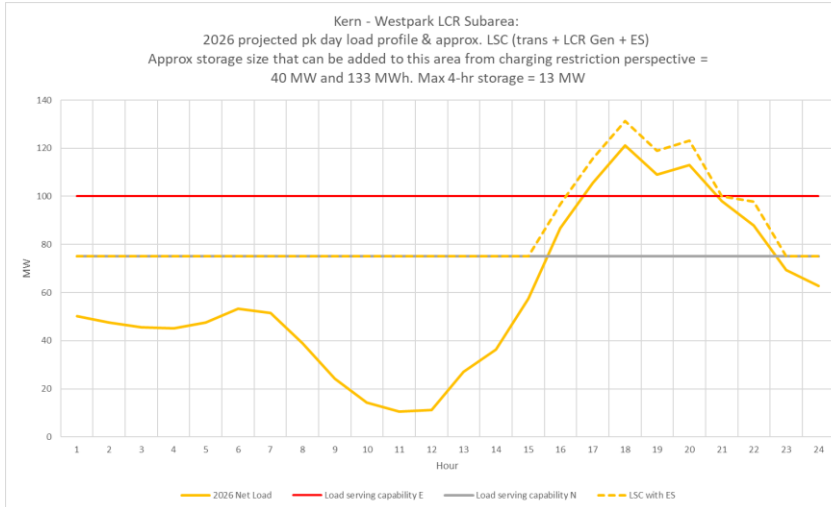
# Kern Area LCR

## Westpark Sub-Area

Year	Cat	Limiting Facility	Contingency	LCR (MW) (Deficiency)
2026	P7	MAGUNDEN - MAGUDN J 115 kV line	Kern PP- Westpark No. 1 & 2 115 kV Lines	26
2029	P7	MAGUNDEN - MAGUDN J 115 kV line	Kern PP- Westpark No. 1 & 2 115 kV Lines	28

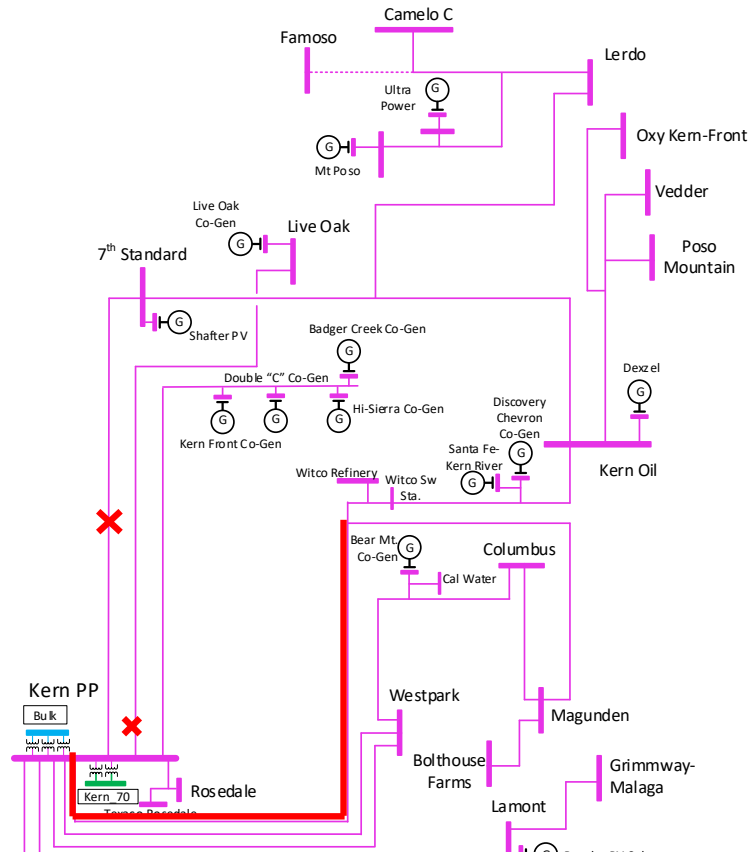


# Westpark Sub-area: Load Profiles



# Kern Area LCR

## Kern Oil Sub-Area





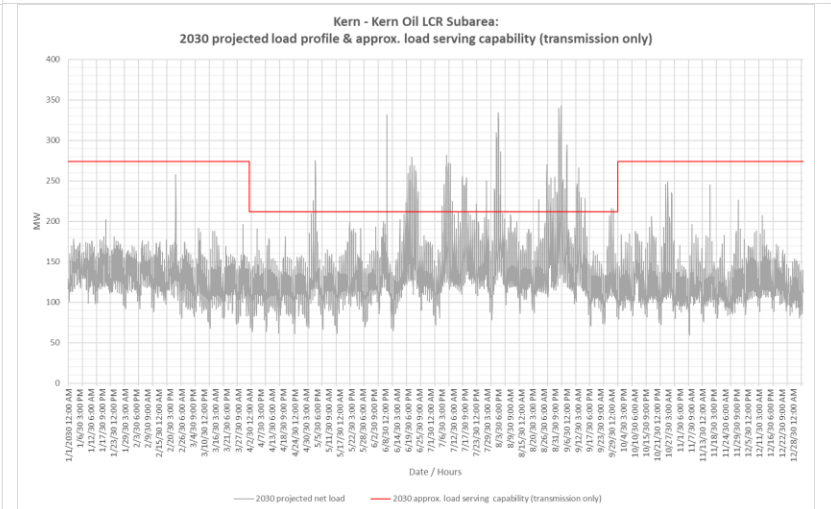
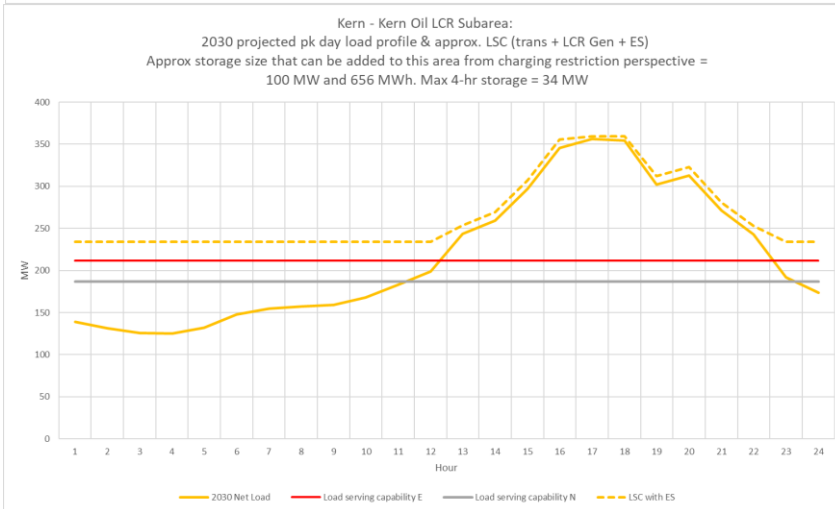
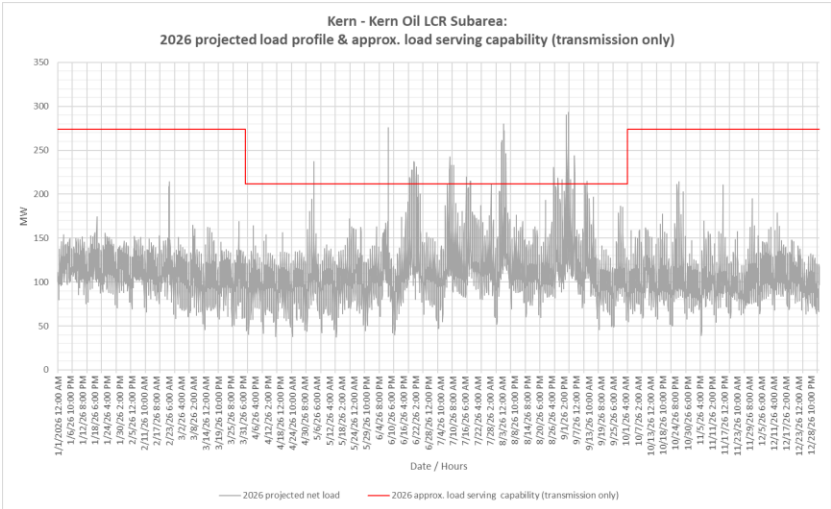
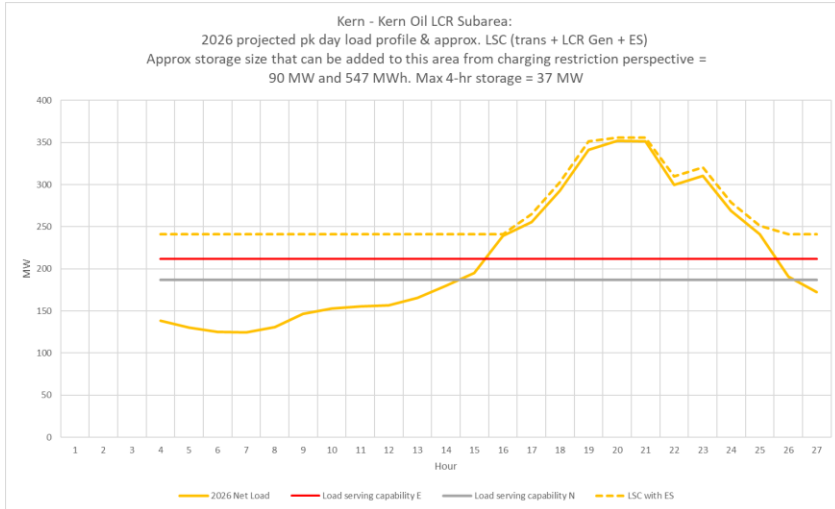
# Kern Area LCR

## Kern Oil Sub-Area

Year	Cat	Limiting Facility	Contingency	LCR (MW) (Deficiency)
2026	P6	Kern Oil - Kern Water 115 kV Line	Kern PP-7th Standard 115 kV lines & Kern PP-Live Oak 115 kV Line	125 (3 Peak)

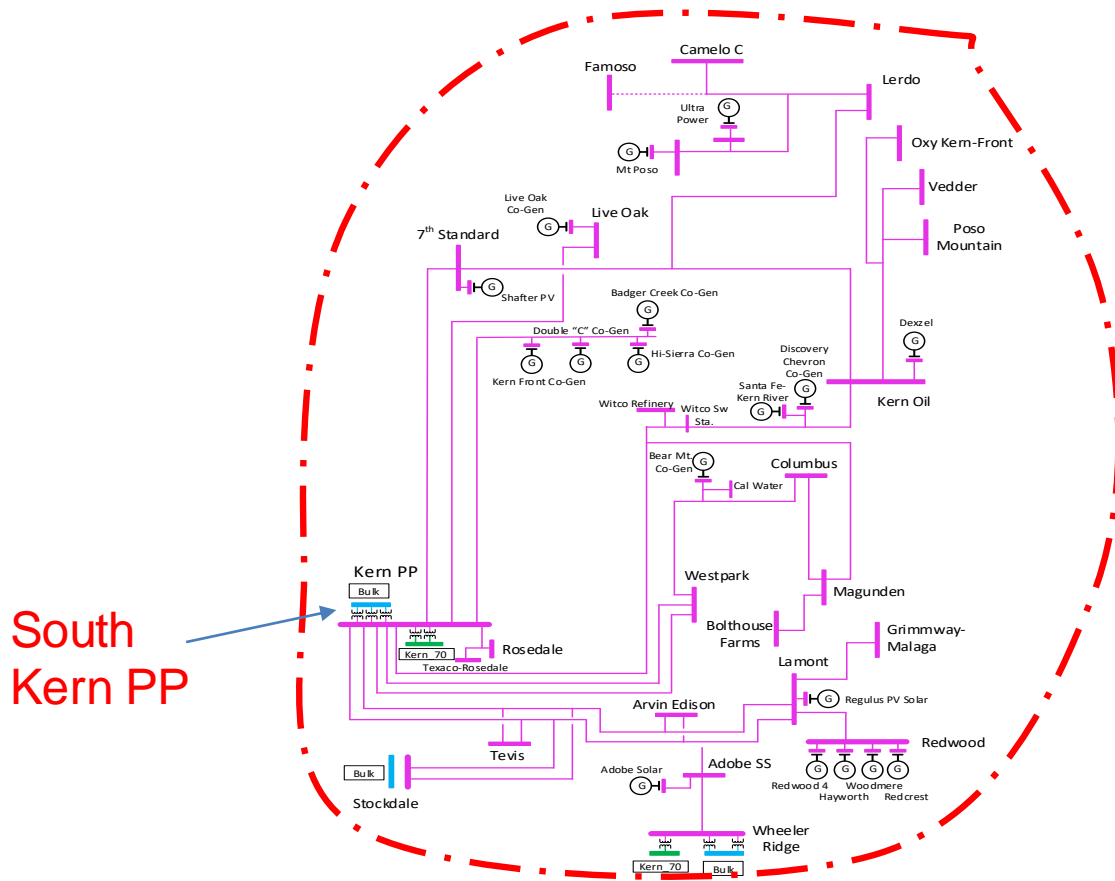
Year	Cat	Limiting Facility	Contingency	LCR (MW) (Deficiency)
2030	P6	Kern Oil - Kern Water 115 kV Line	Kern PP-7th Standard 115 kV lines & Kern PP-Live Oak 115 kV Line	144 (15 NQC) (22 Peak)

# Kern Oil Sub-area: Load Profiles



# Kern Area LCR

## South Kern PP Sub-Area



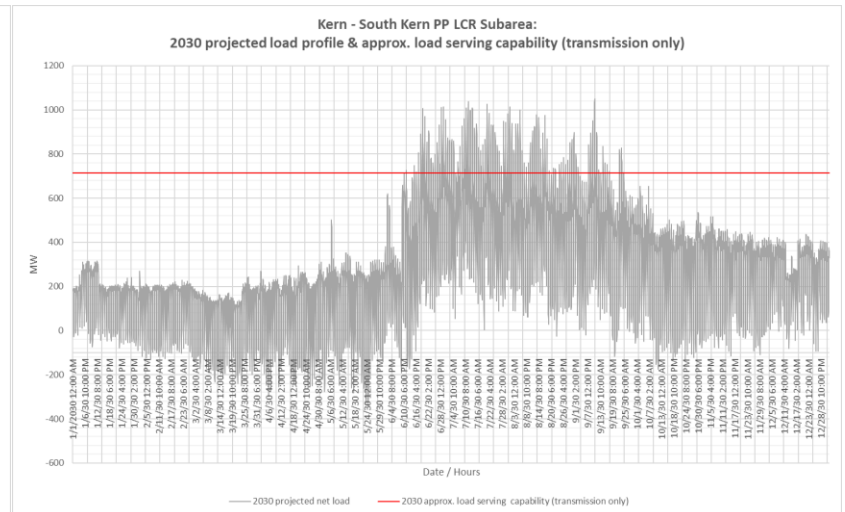
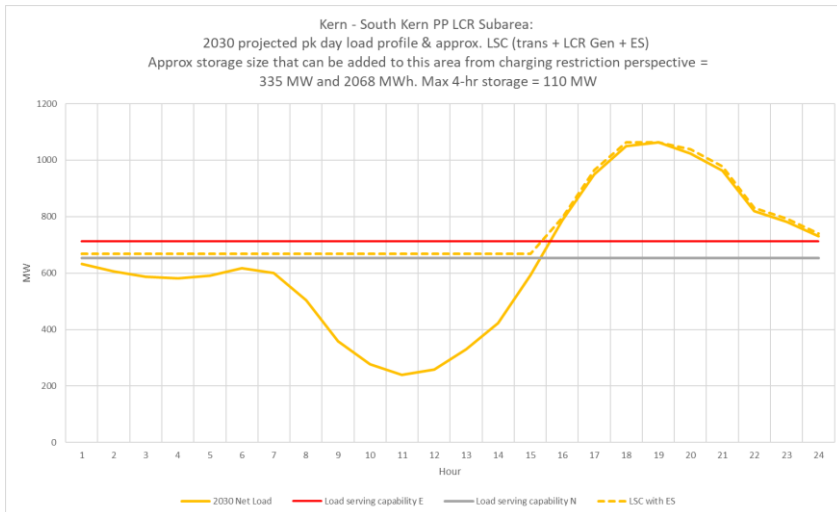
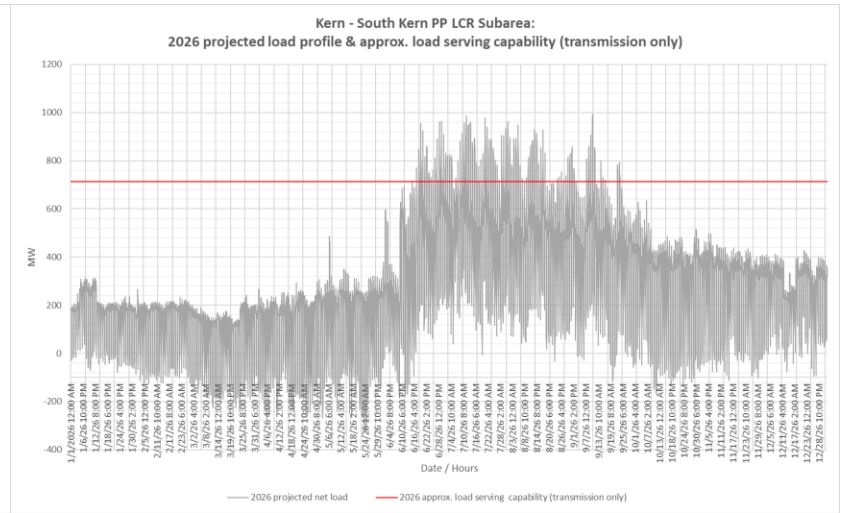
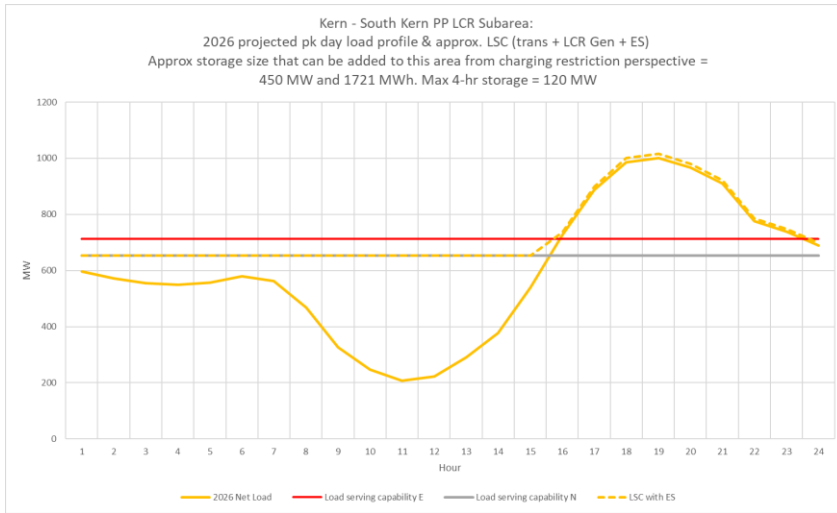
# Kern Area LCR

## South Kern PP Sub-Area

Year	Cat	Limiting Facility	Contingency	LCR (MW) (Deficiency)
2026	P6	Kern 230/115 kV T/F # 5	Kern 230/115 kV T/F # 3 & Kern 230/115 kV T/F # 4	452 (63 Peak)

Year	Cat	Limiting Facility*	Contingency	LCR (MW) (Deficiency)
2030	P6	Kern 230/115 kV T/F # 5	Kern 230/115 kV T/F # 3 & Kern 230/115 kV T/F # 4	346

# South Kern: Load Profiles



# Kern Total LCR Need

2026 LCR Need	Existing Generation Capacity Needed (MW)	NQC Deficiency (MW)	Total MW Need
P6	452	0	452

2030 LCR Need	Existing Generation Capacity Needed (MW)	NQC Deficiency (MW)	Total MW Need
P6	346	15	361

# Changes Compared to Previous LCR Requirements

Sub-area	2025		2026		2029		2030	
	Net Load	LCR	Net Load	LCR	Net Load	LCR	Net Load	LCR
Westpark	130	39	115	26	123	33	118	28
Kern Oil	318	110	334	125 (3 Peak)	299	100	347	144 (15 NQC) (22 Peak)
KernPP- Tevis 115 kV	136	0	144	0	128	0	146	0
South Kern	952	434	1001	452	902	241	1007	346

The 2026 and 2030 overall increase in LCR needs are mainly due to an increase in load forecast.