



# 2025 & 2029 Final LCR Study Results Kern Area

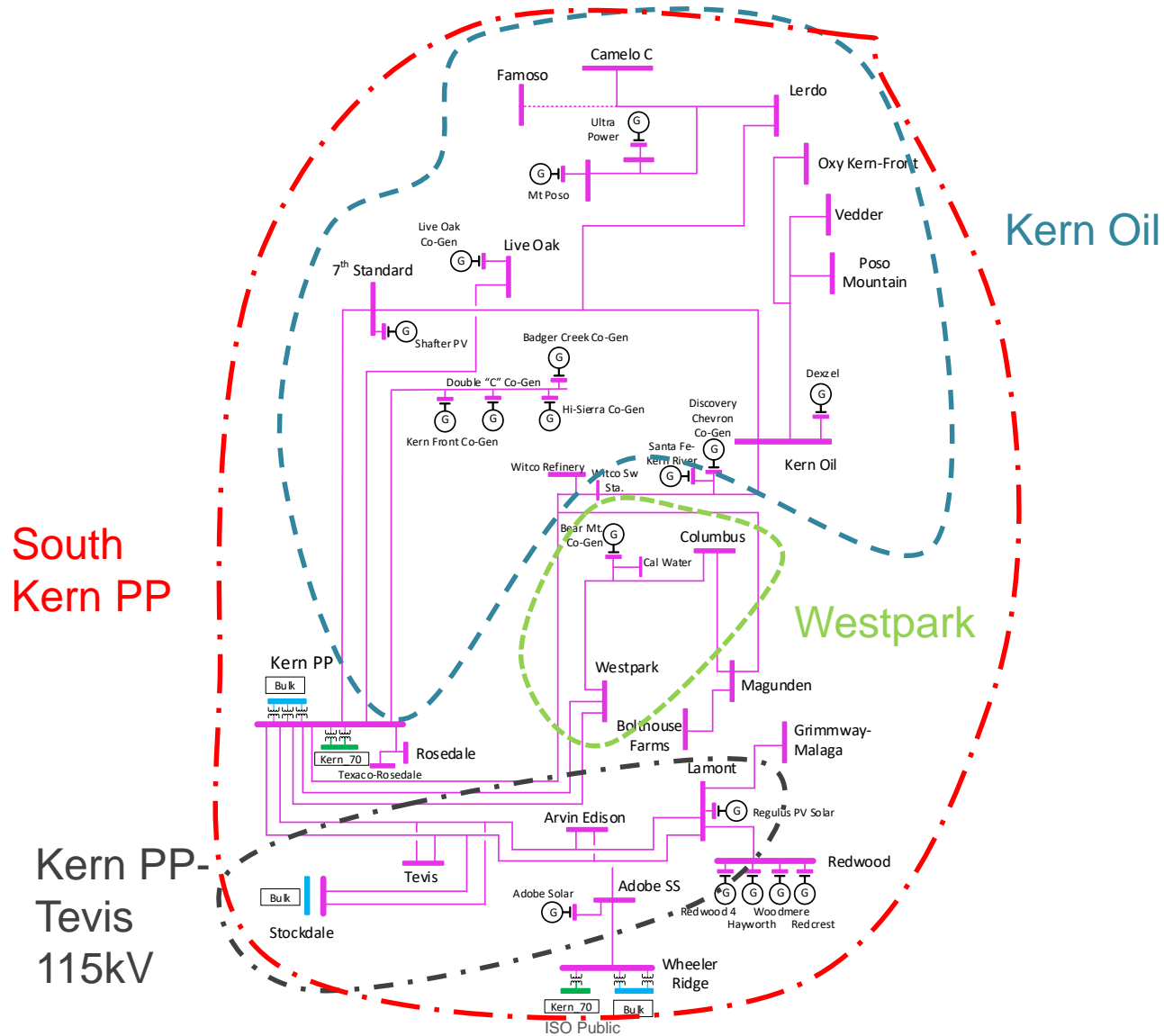
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Stakeholder Call

March 6, 2024

# 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

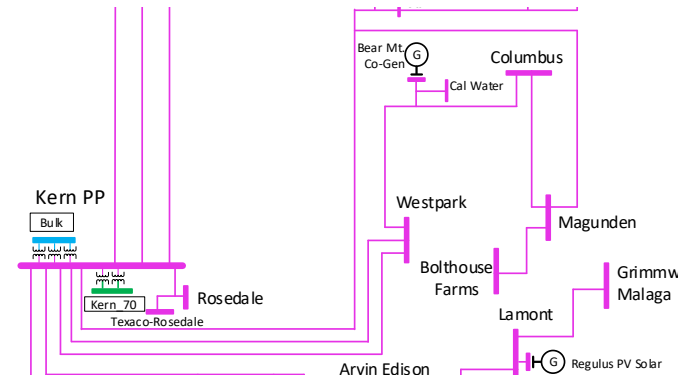
## Kern Area Overall: Load and Resources

Load (MW)	2025	2029	Generation (MW)	2025	2029
Gross Load	952	913	Market/ Net Seller	365	365
AAEE	-11	-19	Battery	0	0
Behind the meter DG	0	0	MUNI/QF	10	10
<b>Net Load</b>	<b>941</b>	<b>893</b>	Solar	43	43
Transmission Losses	8.8	8	Existing 20 minute DR	9	9
Pumps	0	0	Mothballed	0	0
<b>Load + Losses + Pumps</b>	<b>950</b>	<b>902</b>	<b>Total Qualifying Capacity</b>	<b>427</b>	<b>427</b>

# Kern Area LCR

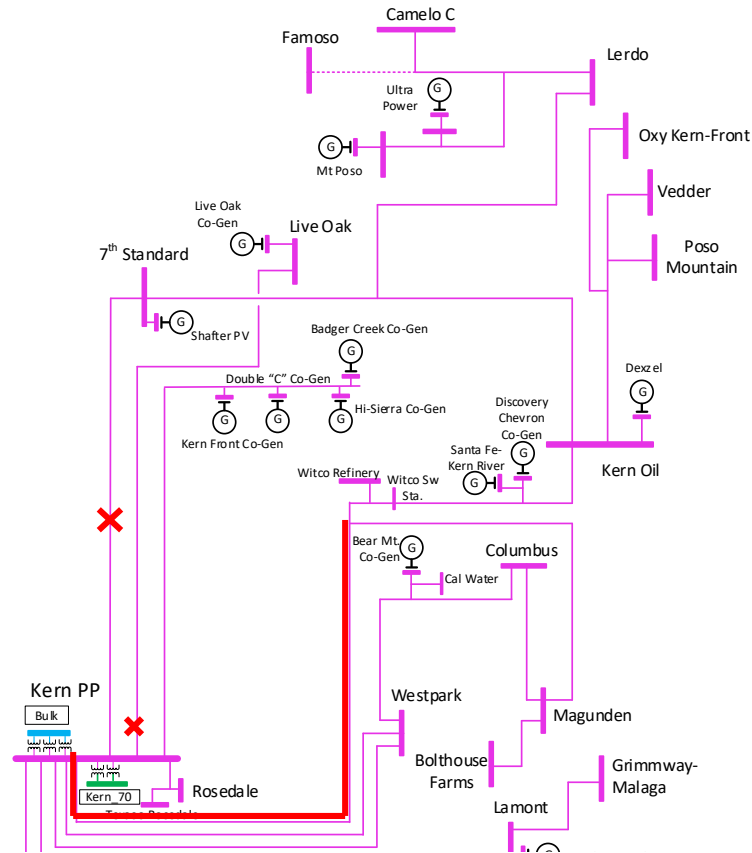
## Westpark Sub-Area

Year	Category	Limiting Facility	Contingency	LCR (MW) (Deficiency)
2025	P7	MAGUNDEN - MAGUDN J 115 kV line	Kern PP-Westpark No. 1 & 2 115 kV Lines	27
2029	P7	MAGUNDEN - MAGUDN J 115 kV line	Kern PP-Westpark No. 1 & 2 115 kV Lines	5



# Kern Area LCR

## Kern Oil Sub-Area



# Kern Area LCR

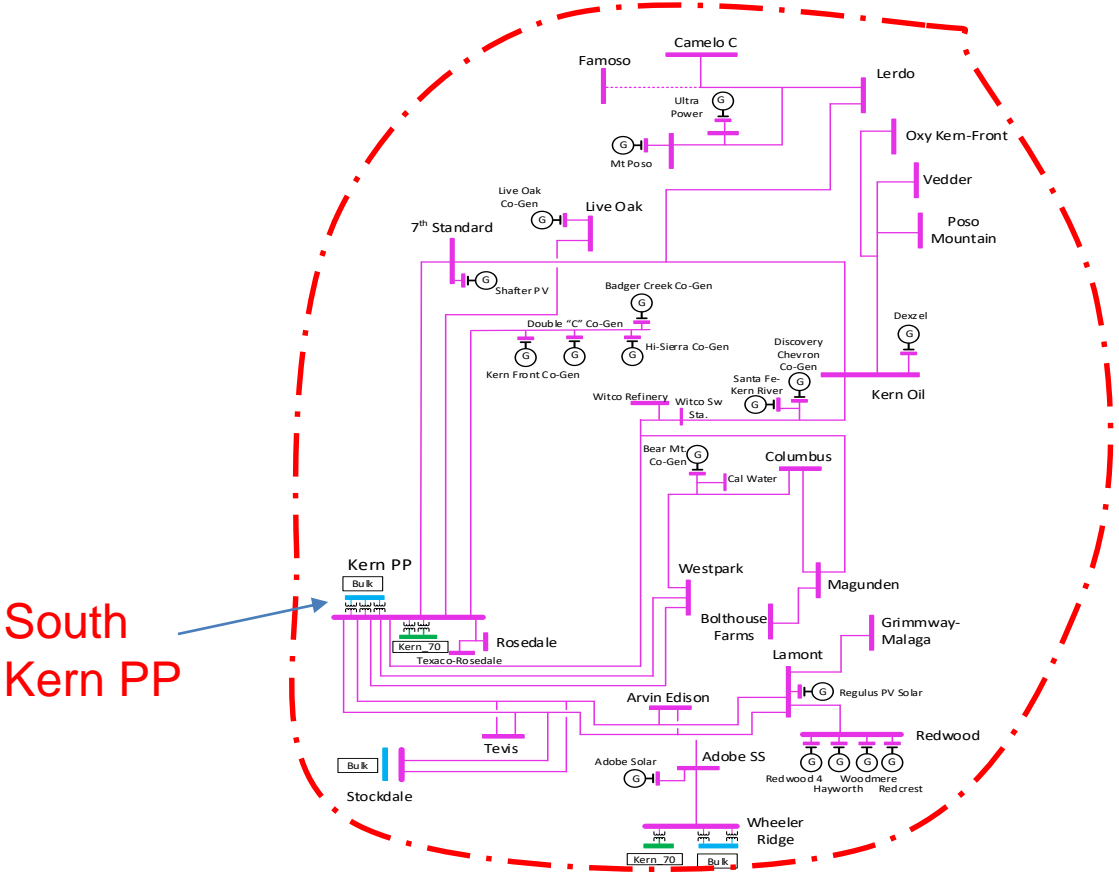
## Kern Oil Sub-Area

Year	Cat	Limiting Facility	Contingency	LCR (MW) (Deficiency)
2025	P6	Kern Oil - Kern Water 115 kV Line	Kern PP-7th Standard 115 kV lines & Kern PP-Live Oak 115 kV Line	110

Year	Cat	Limiting Facility	Contingency	LCR (MW) (Deficiency)
2029	P6	Kern Oil - Kern Water 115 kV Line	Kern PP-7th Standard 115 kV lines & Kern PP-Live Oak 115 kV Line	126

# Kern Area LCR

## South Kern PP Sub-Area





# Kern Area LCR

## South Kern PP Sub-Area

Year	Cat	Limiting Facility	Contingency	LCR (MW) (Deficiency)
2025	P6	Kern 230/115 kV T/F # 5	Kern 230/115 kV T/F # 3 & Kern 230/115 kV T/F # 4	269

Year	Cat	Limiting Facility*	Contingency	LCR (MW) (Deficiency)
2029	P6	Kern 230/115 kV T/F # 5	Kern 230/115 kV T/F # 3 & Kern 230/115 kV T/F # 4	241

# Kern Total LCR Need

2025 LCR Need	Existing Generation Capacity Needed (MW)	NQC Deficiency (MW)	Total MW Need
P6	269	0	269

2029 LCR Need	Existing Generation Capacity Needed (MW)	NQC Deficiency (MW)	Total MW Need
P6	241	0	241

# Changes Compared to Previous LCR Requirements

Sub-area	2024		2025		2028		2029	
	Net Load	LCR	Net Load	LCR	Net Load	LCR	Net Load	LCR
Westpark	115	31	130	27	118	33	123	5
Kern Oil	258	127 (10 Peak 7 NQC)	318	110	282	169 (52 Peak 49 NQC)	299	126
KernPP- Tevis 115 kV	136	13 (13 Peak 0 NQC)	136	0	141	18 (18 Peak 0 NQC)	128	0
South Kern	925	454 (70 Peak 27 NQC)	952	269	966	560 (176 Peak 133 NQC)	902	241

For 2025 and 2029 LCR, the differences between the current and previous year's LCR values are currently under review.