



POWER MO: SECURING MISSOURI'S ENERGY FUTURE

KIM O'GUINN, SENIOR DIRECTOR STATE REGULATORY POLICY

OCTOBER 7, 2025

*Working together to responsibly and economically
keep the lights on today and in the future.*



SouthwestPowerPool



SPPorg



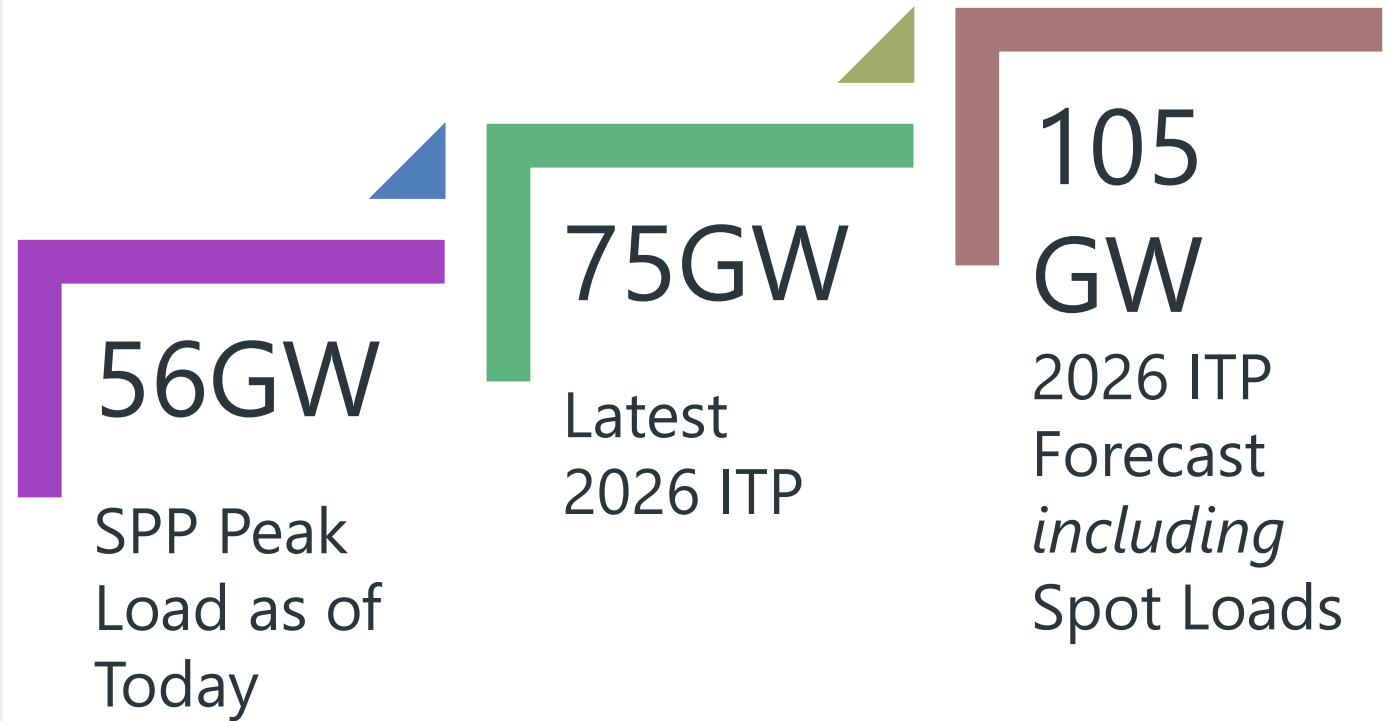
southwest-power-pool

SPP'S PATH FORWARD:

ALIGNING DEMAND, RESOURCES, AND
INFRASTRUCTURE

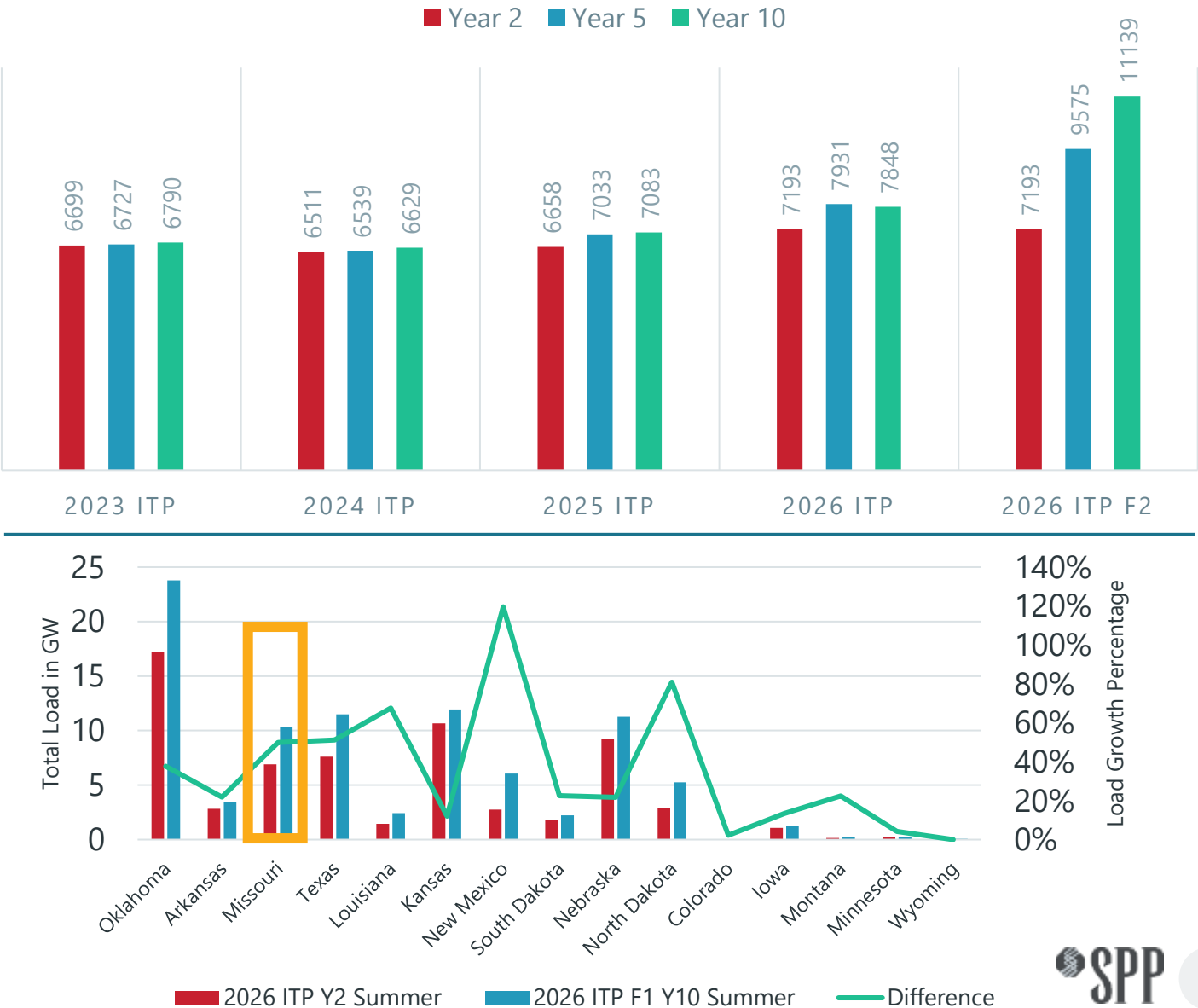
SPP LOAD GROWTH OUTLOOK

SPP is experiencing rapid load growth, projected to nearly double by 2026. This trajectory highlights the importance of proactive planning to ensure reliability and affordability.



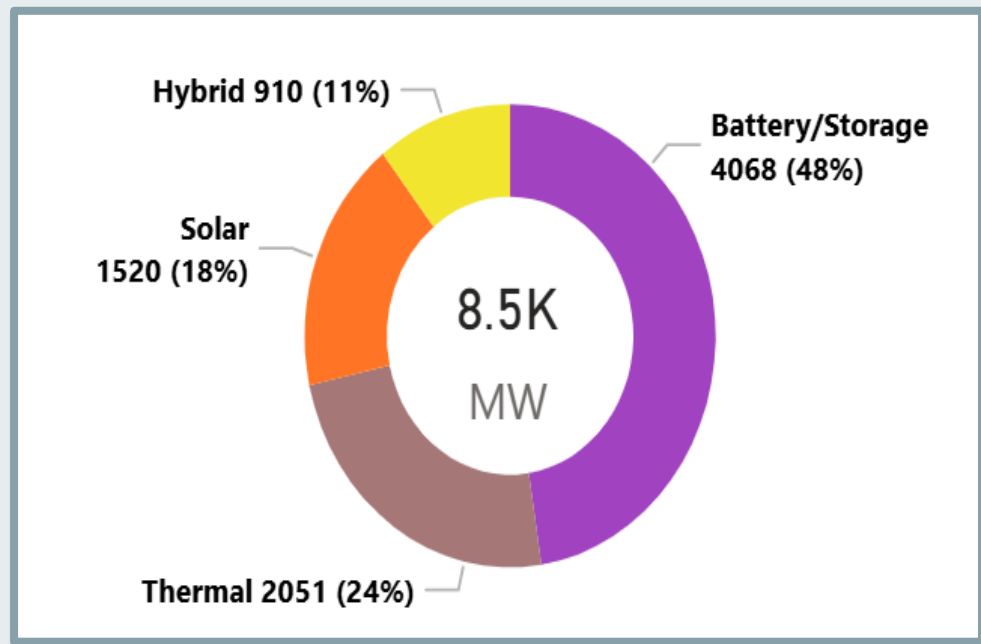
MISSOURI LOAD GROWTH

Missouri is experiencing steady load growth that accelerates significantly in the 2026 forecast.

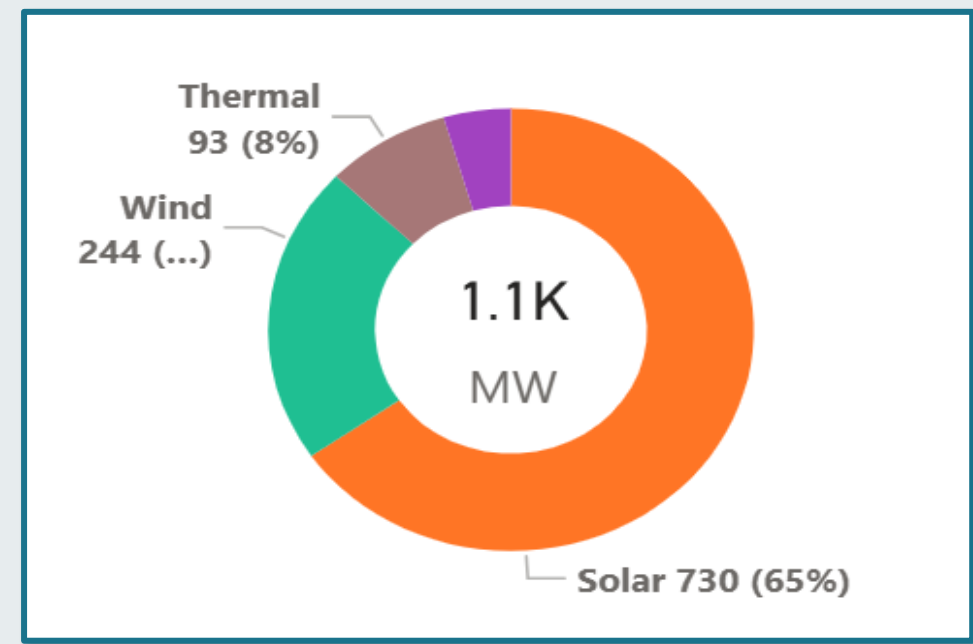


MISSOURI GENERATION INTERCONNECTION

Generation Under Study

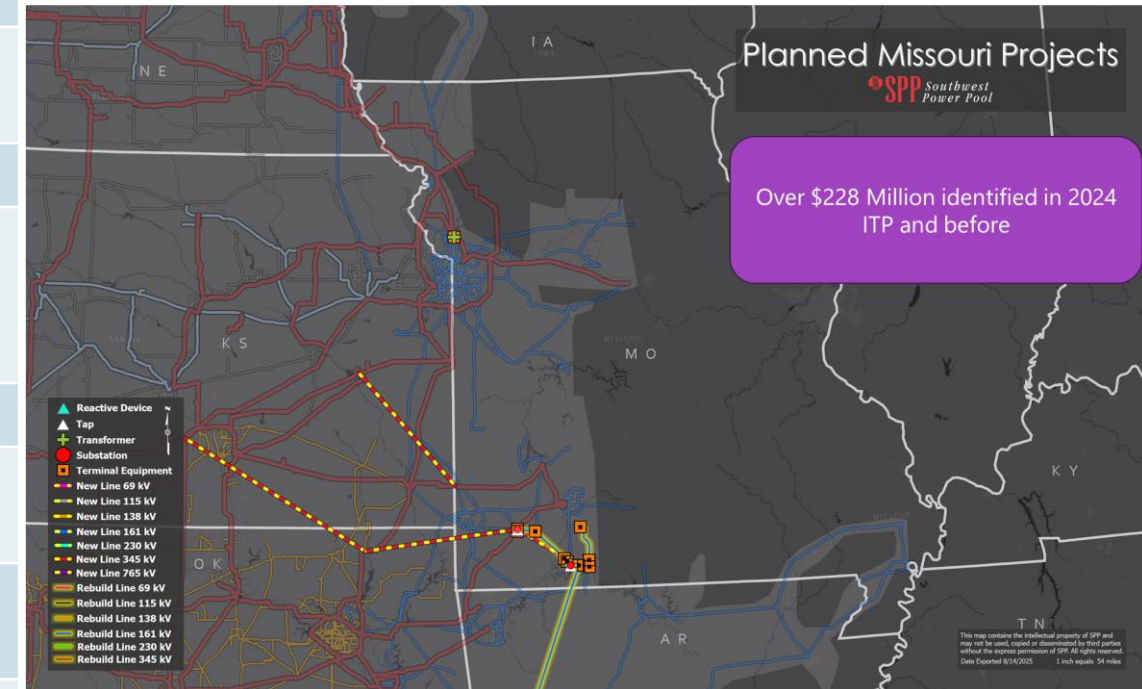


Executed GIA: 5yr COD

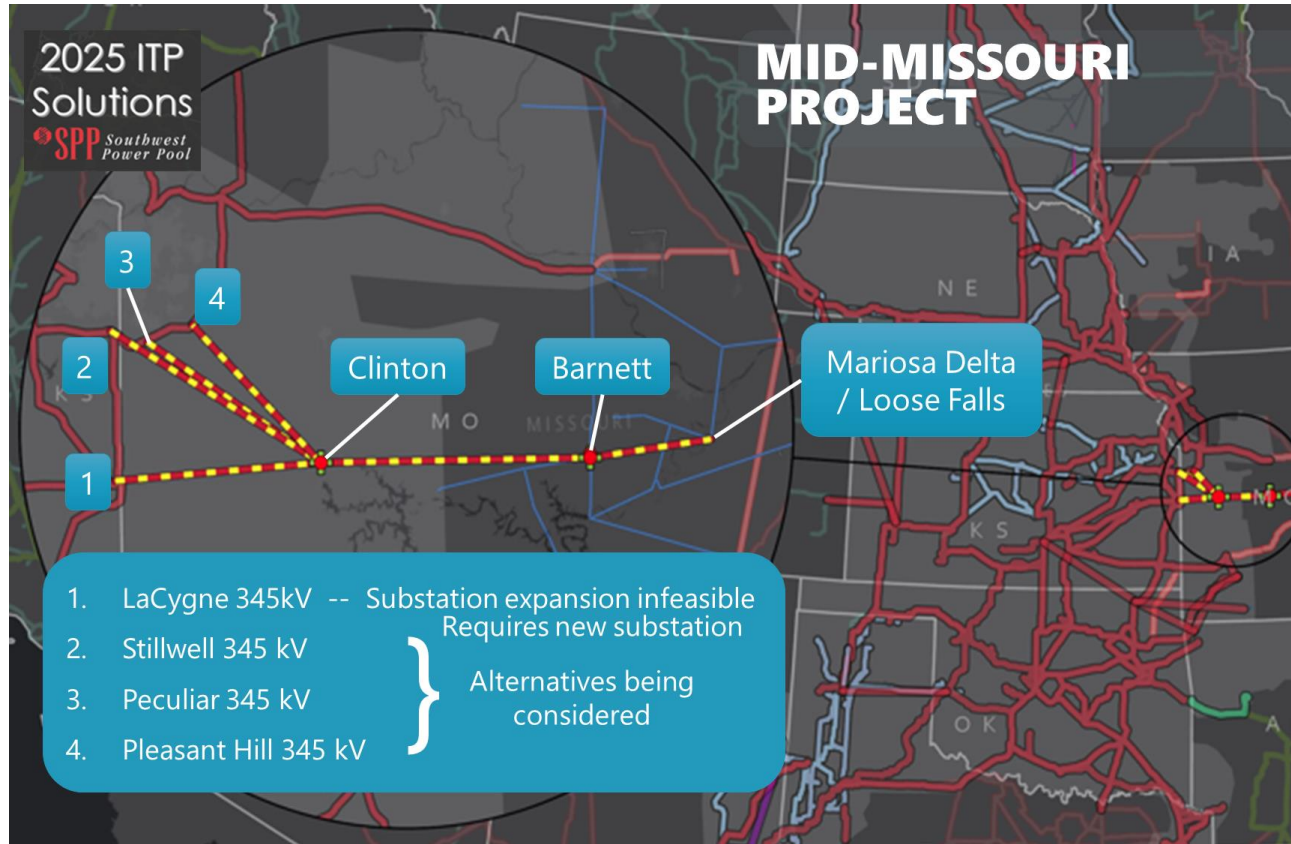


MISSOURI TRANSMISSION BENEFITS: 40 YEAR PV, 2024 \$M

Benefit Metric	Future 1	Future 2
APC Savings	\$1,002	\$1,079
Avoided/Delayed Reliability Projects	\$3	\$3
Capacity Cost Savings	\$7	\$7
Assumed Benefit of Mandated Reliability Projects	\$368	\$368
Public Policy Benefit	\$0	\$0
Transmission Outage Cost Mitigation	\$255	\$275
Increased Wheeling Revenues	\$340	\$340
Marginal Energy Losses Benefit	\$555	\$310
TOTAL Benefits	\$2,530	\$2,382
40-yr ATRRs (Costs)	\$1,290	\$1,290
Benefit-to-Cost Ratio	2.0	1.8



MISSOURI: 2025 ITP PROPOSED SOLUTION



Project	Area	Cost (\$)	Source
Diamond Tap - Carthage 69 kV Line Rebuild	Empire	\$10,704,500	Reliability
Joplin 161 kV Breaker Replacement	Empire	\$275,000	Short Circuit
Mid-Missouri 345kV	Evergy- Greater MO/AECI/MISO	\$642,748,640*	Economic
St. Joseph Maryville - Midway - Avenue City 161 kV Line Rebuild	Evergy- Greater MO	\$56,096,451	Operational

*Total project costs including SPP, AECI, and MISO cost responsibility

PRELIMINARY 765 KV OVERLAY (FULL SPP FOOTPRINT)

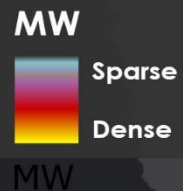
Possible 765 kV Northern Options (2026 ITP)

1. Radial line connecting KS to ND
2. Option 1 + western line to close loop
3. Connect to MISO's 765 kV LRTP

SPP is proactively
looking to identify
possible expansion needs
for 2026 ITP moving
north considering the
2026 large load additions

Potter- Crossroads Phantom 765 kV line
(2024 ITP)

Draft 765 kV Overlay Recommended Plan
(2025 ITP)



Note: 2026 ITP points are draft, actual analysis will be utilized to determine optimal locations

INTERCONNECTING LARGE LOAD

FUTURE OF SPP'S SERVICES FOR LARGE LOADS

HILL

High Impact Large Load

Long-term firm transmission service for **large loads** when there is sufficient generation on the system today.

MOPC – Approved 8/21
Board – Approved 9/4

CHILL

Conditional HILL

For **large loads** willing to take a long-term curtailable transmission service with a commitment to firm.

MOPC Action – Oct 14th – 15th

PAL

Price Adaptive Load

For **any load** (not just large loads) willing to take **price adaptive load** (PAL) service and withdrawal based on Real Time pricing.

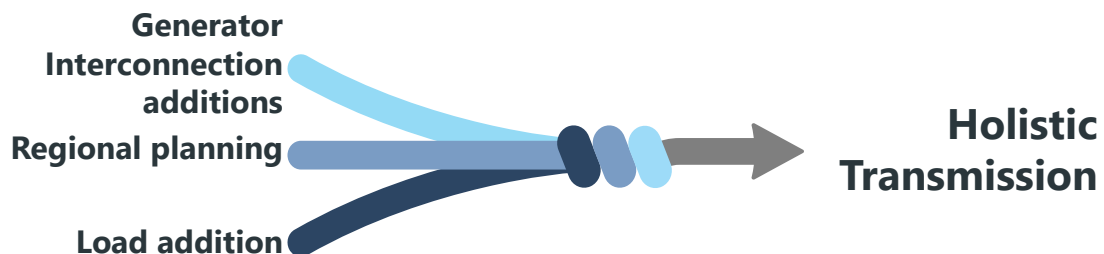
MOPC Policy – January 2026
MOPC Action – April 2026

CONSOLIDATED PLANNING PROCESS

CPP OVERVIEW

WHAT ARE CPP GOALS?

- ✓ Enabling faster resource integration
- ✓ Shared costs based on benefits
- ✓ More efficient and reliable grid development



Solution Drivers



Benefit-Based Cost Allocation



**Unified and Forward-Looking
Planning Framework**



KIM O'GUINN

SENIOR DIRECTOR STATE REGULATORY POLICY
KOGUINN@SPP.ORG