



Southwest Power Pool (SPP) Update

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NPPD Board of Directors Meeting
Strategic Business Matters
November 2025

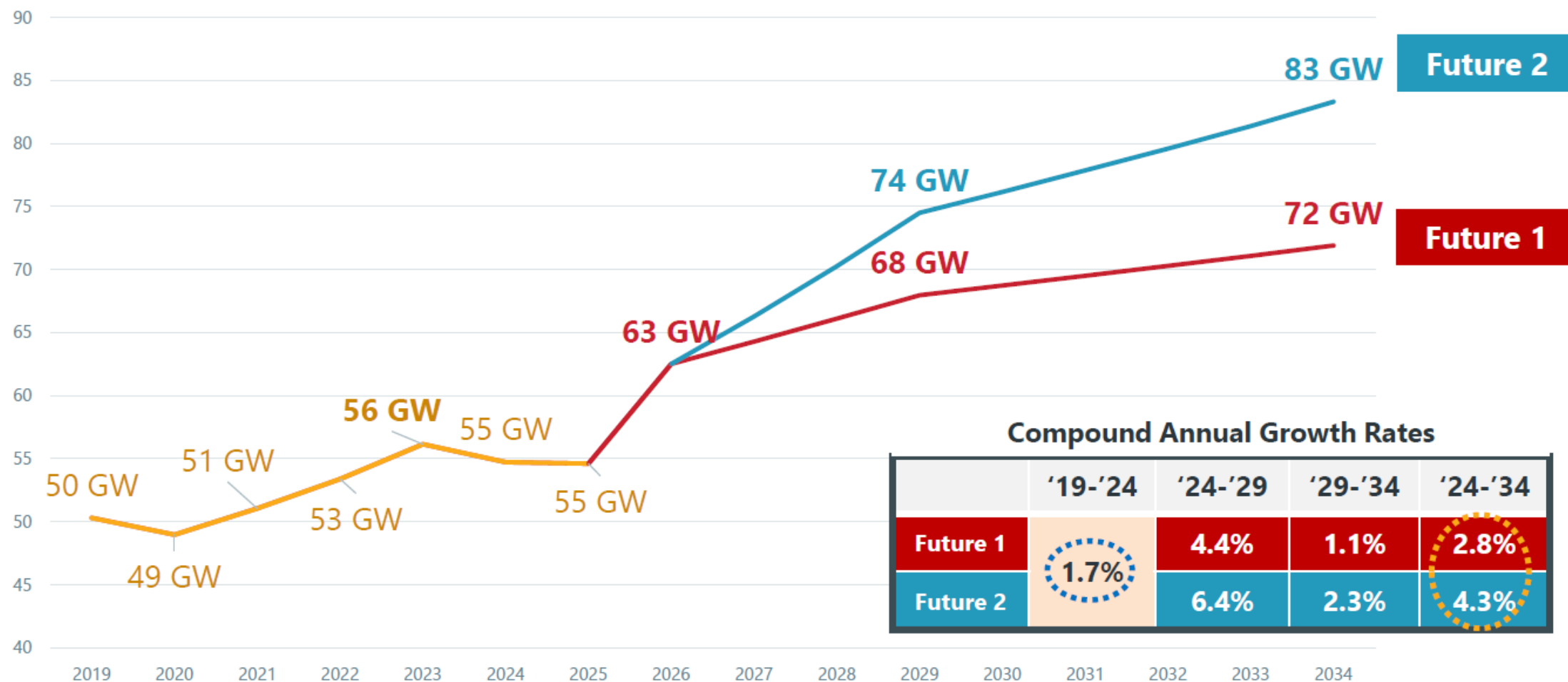
John McClure
Executive VP External Affairs &
General Counsel

Robert Pick
Senior Manager of Energy Market Strategies



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MORE LOAD MEANS FUTURE RECORD PEAKS



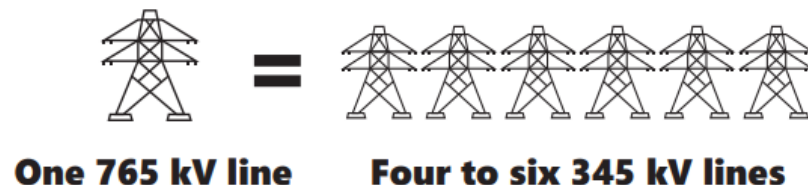
Peak demand is expected to grow ~30% in Future 1 and more than 50% in Future 2 from 2024-2034

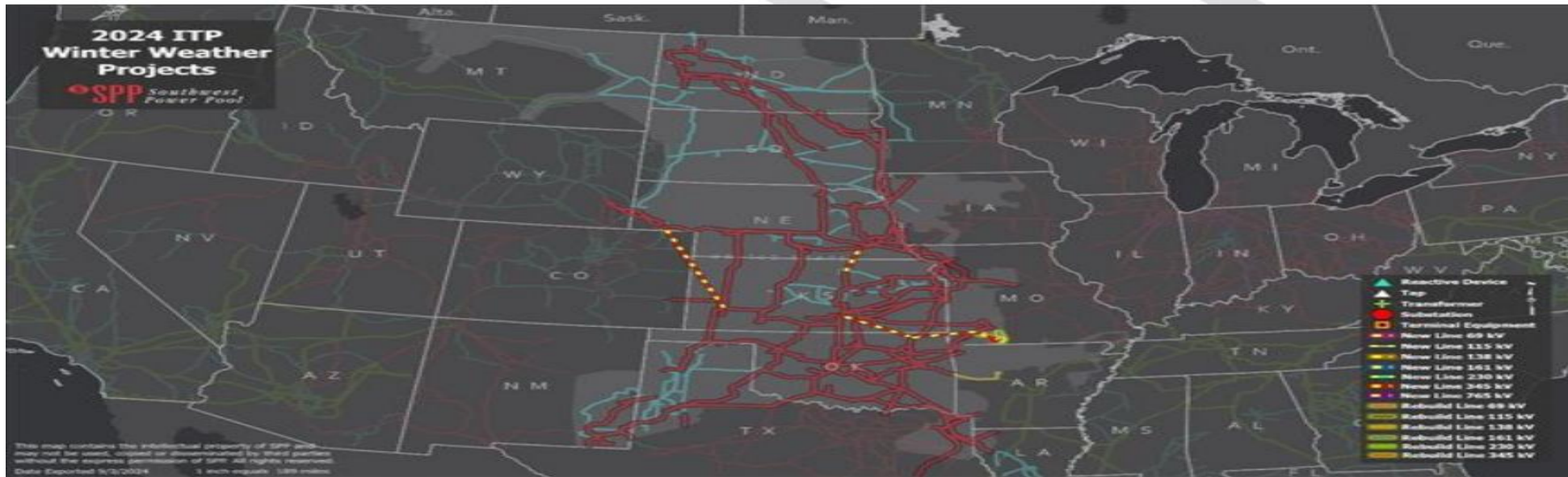
Review of SPP Transmission Highway/Byway Cost Allocation Based on Voltage Level

- Transmission facilities at 300 kV or above are referred to as “Highway” facilities and the costs of such facilities are allocated to entire SPP region.
- Transmission facilities between 100 kV and 300 kV are referred to as “Byway” facilities, and SPP allocates the costs of Byway facilities 33% on a regional, allocated load ratio share and 67% to the zone in which the facilities are located.
- Facilities at or below 100 kV: 100% of the costs are allocated entirely to the local zone where they are located.
- Load ratio share based on peak load. NPPD and OPPD’s load ratio share is ~ 5%. LES is ~1.25%

2024 & 2025 Integrated Transmission Plan (ITP)

- 2024 ITP added more than 2,000 miles of new and upgraded transmission lines to the region's grid. The SPP Board of Directors approved the \$7.7 billion plan in October 2024. NPPD's cost share is ~\$385M
- 2025 ITP \$8.6 billion in projects approved by the SPP Board of Directors in November 2025. NPPD's cost share is ~\$430M
 - SPP's current system peak is 56 gigawatts (GW). Electrification, manufacturing onshoring and economic development are projected to nearly double demand to 109 GW in the next 10 years





Description	Classification	Area	Project Cost (2024\$)
Ainsworth - Bassett 115 kV Ckt 1 New Line	R	NPPD	\$25,100,000
Antelope - Holt County 345 kV Ckt 1 New Line	E	NPPD	\$67,100,000
Aurora - Central City 115 kV Ckt 1 New Line	R	NPPD	\$13,700,000
Gering Tap - Scotts Bluff 115 kV Ckt 1 Rebuild	E	NPPD/ WAPA-RMR	\$3,385,333
Elm Creek - Tobias 345 kV New Line	WW	ITC GP/NPPD	\$148,419,672
Chadron - Dunlap 115 kV Ckt 1 Rebuild	E	NPPD/WAPA- RMR	\$19,314,577
Hoskins - Stanton North 115 kV Rebuild	E	NPPD	\$4,000,000

SPP'S 2025 ITP: BALANCING URGENCY & FLEXIBILITY

2025 ITP Portfolio	Description	Remaining Project Total
Full 2025 ITP Portfolio	All projects identified to meet 10-year reliability and economic needs <i>(Excludes ~\$1B of ZPC project costs)</i>	\$18.1 billion
Staff Refined	Deferred* a mix of projects without near-term needs, or that could be further optimized with 2026 ITP	\$11.1 billion (~\$7B deferred)
ESWG/TWG Endorsed	Endorsed Staff Refined proposal	\$11.1 billion
MOPC Endorsed / Staff Recommendation	Deferred* two additional economic 765kV	\$8.5 billion (~\$2.6B deferred)

**Most projects deferred from the 2025 ITP will be further evaluated in the 2026 ITP along with other projects to solve needs*

Our ultimate goal: provide timely, reliable, and affordable power in all probable conditions.

PRELIMINARY 765 KV OVERLAY (FULL SPP FOOTPRINT)

2026 ITP
Spot Loads

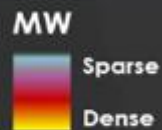


Possible 765 kV Northern Options
(2026 ITP)

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

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

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1 inch equals 100 miles

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 Action – Sept 4th

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 RT pricing.

MOPC Policy – January 2026
MOPC Action – April 2026



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Questions



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