

“Based on [Load Responsible Entity] and [Generator Owner] 2023 data submittals, by the 2026 summer season, no excess capacity from LREs will be available and by 2027 summer the SPP system as a whole will not be able to meet the 15% PRM.”

-2023 SPP Resource Adequacy Report

Table 1—Overview of Current and Projected Total System Capacity and System Capacity Responsibility for Utilities Operating in Kansas

		Investor Owned Utilities (IOUs)	Cooperatives	Municipal Utilities
2021 Historical	Total System Capacity (MW)	8,430	2,061	1,354
	System Peak Responsibility (MW)	7,517	1,829	1,173
	System Capacity Surplus (Deficit)	914	232	181
2026 Projected	Total System Capacity (MW)	7,906	1,929	1,318
	System Peak Responsibility (MW)	7,652	1,941	1,255
	System Capacity Surplus (Deficit)	254	(12)	63
2031 Projected	Total System Capacity (MW)	7,309	1,817	1,295
	System Peak Responsibility (MW)	7,752	1,945	1,286
	System Capacity Surplus (Deficit)	(443)	(128)	9
2036 Projected	Total System Capacity (MW)	6,491	1,776	1,404
	System Peak Responsibility (MW)	7,927	1,955	1,311
	System Capacity Surplus (Deficit)	(1,432)	(179)	93
2041 Projected	Total System Capacity (MW)	4,288	1,775	1,227
	System Peak Responsibility (MW)	8,126	2,009	1,357
	System Capacity Surplus (Deficit)	(3,838)	(234)	(130)

Source: Kansas Corporation Commission 2023 Electric Supply & Demand Biennial Report to the Kansas Legislature

Southwest Power Pool Generation Interconnection Queue Dashboard

The current generator interconnection active queue consists of 485 projects totaling 99.5 GW

North



Projects: 39
Size 7.98 GW

Filter by Request

All

Nebraska



Projects: 67
Size 13.54 GW

Filter by GEN Type

All

Central



Projects: 151
Size 31.78 GW

Filter by Cluster

All

Southeast



Projects: 163
Size 29.73 GW

Filter by State

All

Southwest

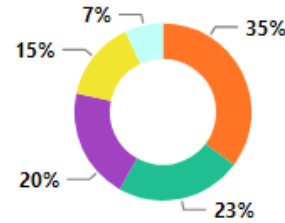


Projects: 65
Size 16.44 GW

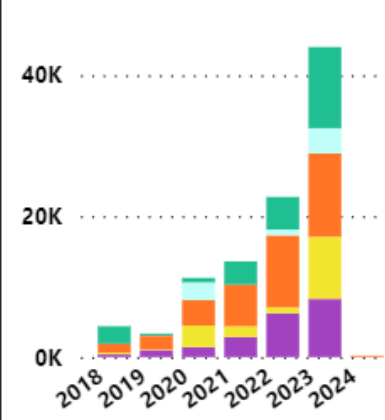
Filter by TO

All

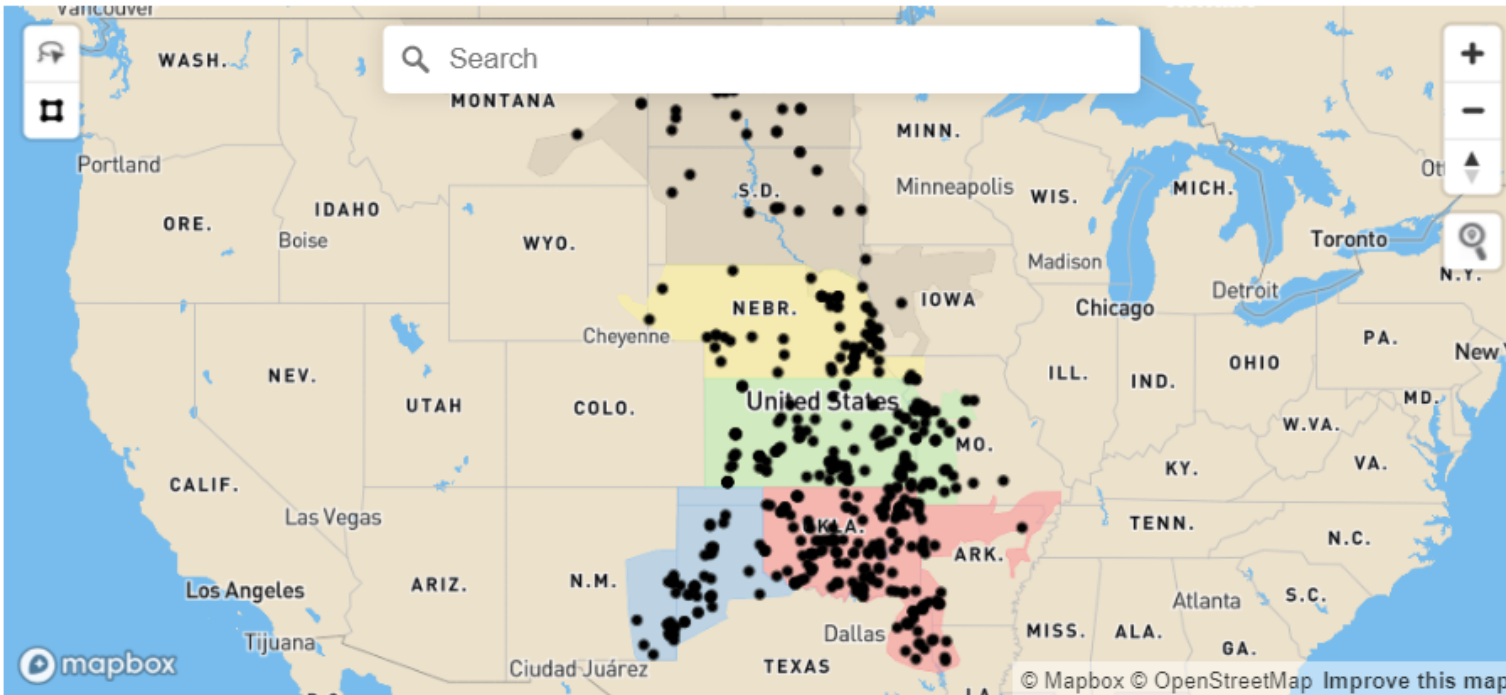
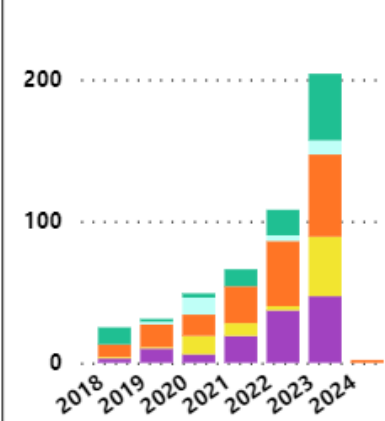
Total Queue



Active Projects by Year (MW)



Active Project Counts by Year



Generation Type ● Battery/Storage ● Hybrid ● Solar ● Thermal ● Wind

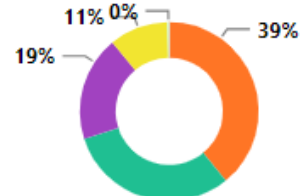
Cluster	MW	Projects
01 NORTH	7,980.29	39
Battery/Storage	525.00	3
Hybrid	999.50	7
Solar	2,515.00	9
Thermal	783.15	6
Wind	3,157.64	14
02 NEBRASKA	13,543.30	67
Battery/Storage	905.00	6
Hybrid	1,305.00	6
Solar	3,683.47	24
Thermal	3,606.56	14
Wind	4,043.27	17
03 CENTRAL	31,783.55	151
Battery/Storage	7,227.49	42
Hybrid	3,510.00	13
Solar	12,645.58	59
Thermal	166.56	4
Wind	8,233.92	33
04 SOUTHEAST	29,731.64	163
Battery/Storage	9,446.79	59
Hybrid	6,084.60	34
Solar	9,288.15	51
Thermal	953.00	1
Wind	3,959.10	18
05 SOUTHWEST	16,440.38	65
Battery/Storage	2,032.00	12
Hybrid	2,685.00	9
Solar	6,876.88	29
Thermal	1,423.00	3
Wind	3,423.50	12
Total	99,479.16	485

Disclaimer: The data provided is for information purposes only and is subject to change without notification. Questions? Email: gstudios@spp.org. Click [HERE](#) for SPP GI Web Site. Click [HERE](#) for Study Region Map

Southwest Power Pool Generation Interconnection Queue Dashboard

The current generator interconnection active queue consists of 109 projects totaling 24.2 GW

North Nebraska Central Southeast Southwest Total Queue



Projects:
Size GW

Projects:
Size GW

Projects: 109
Size 24.2 GW

Projects:
Size GW

Projects:
Size GW

Filter by Request

Filter by GEN Type

Filter by Cluster

Filter by State

Filter by TO

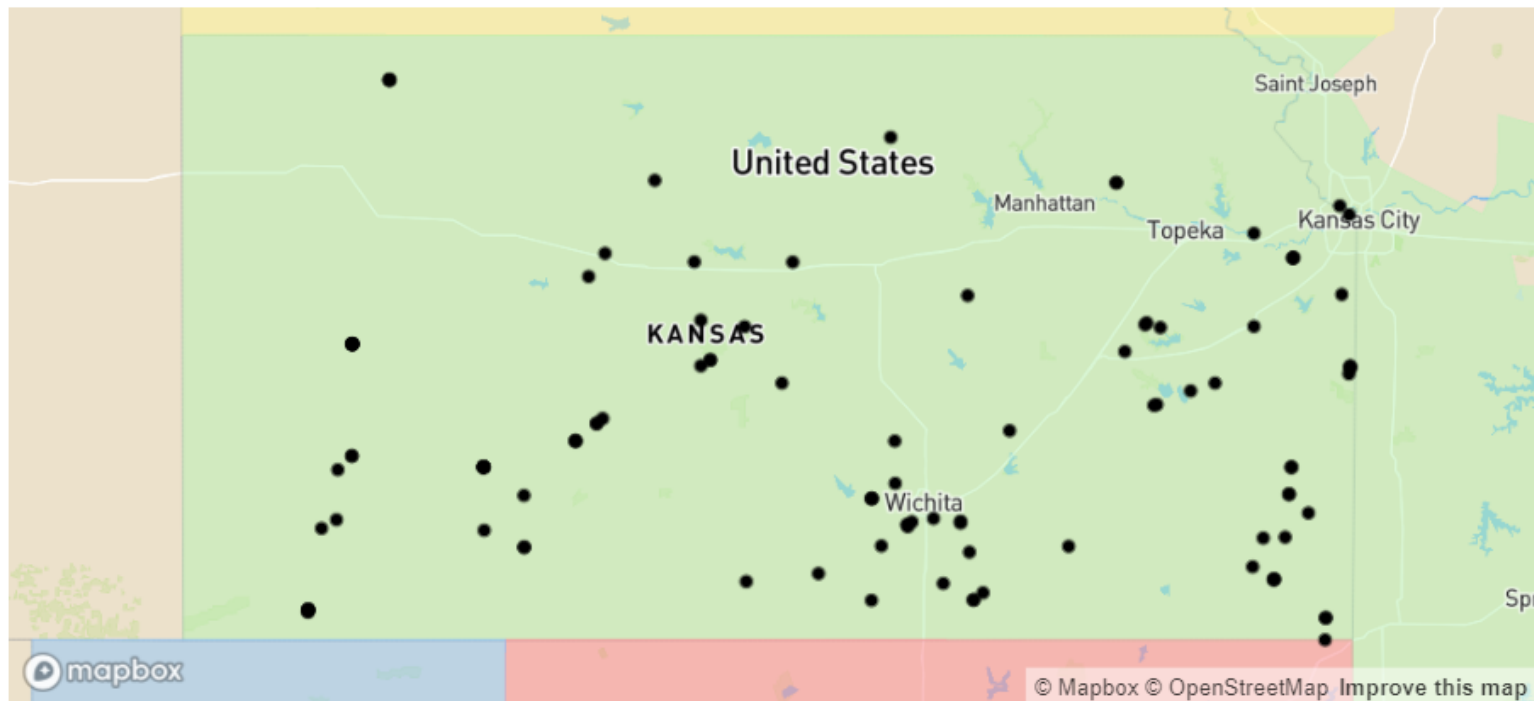
All

All

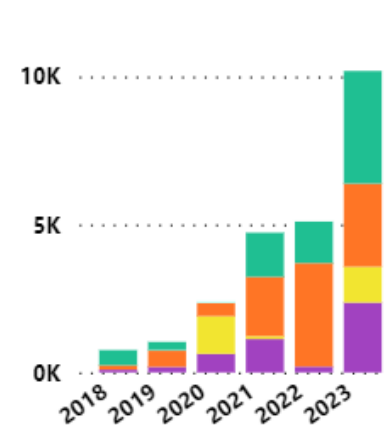
All

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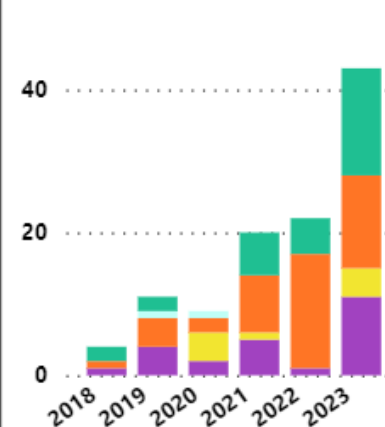
All



Active Projects by Year (MW)



Active Project Counts by Year



Cluster	MW	Projects
03 CENTRAL	24,203.56	109
Battery/Storage	4,606.50	24
Hybrid	2,585.00	9
Solar	9,456.58	44
Thermal	73.56	2
Wind	7,481.92	30
Total	24,203.56	109

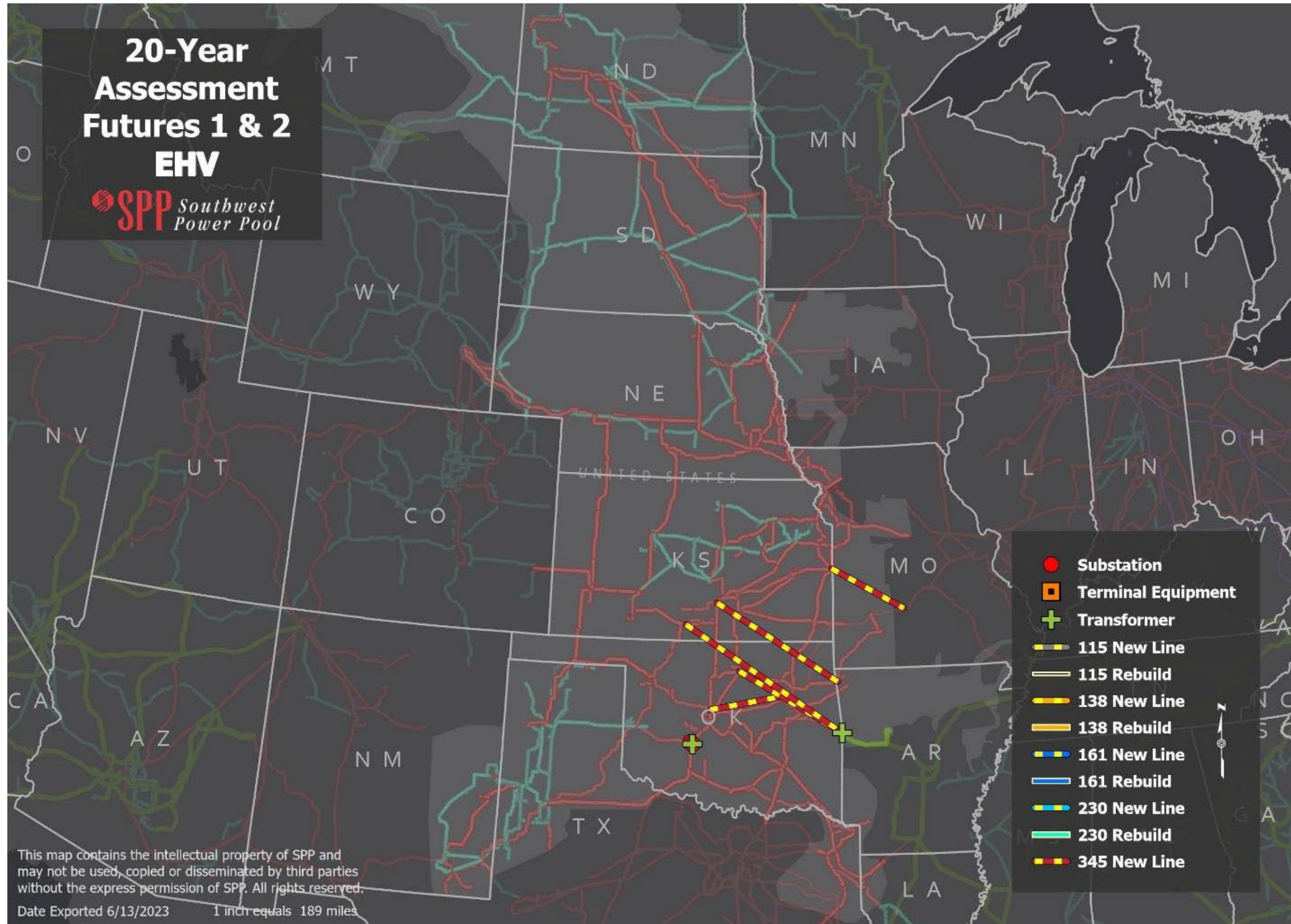
mapbox

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Generation Type ● Battery/Storage ● Hybrid ● Solar ● Thermal ● Wind

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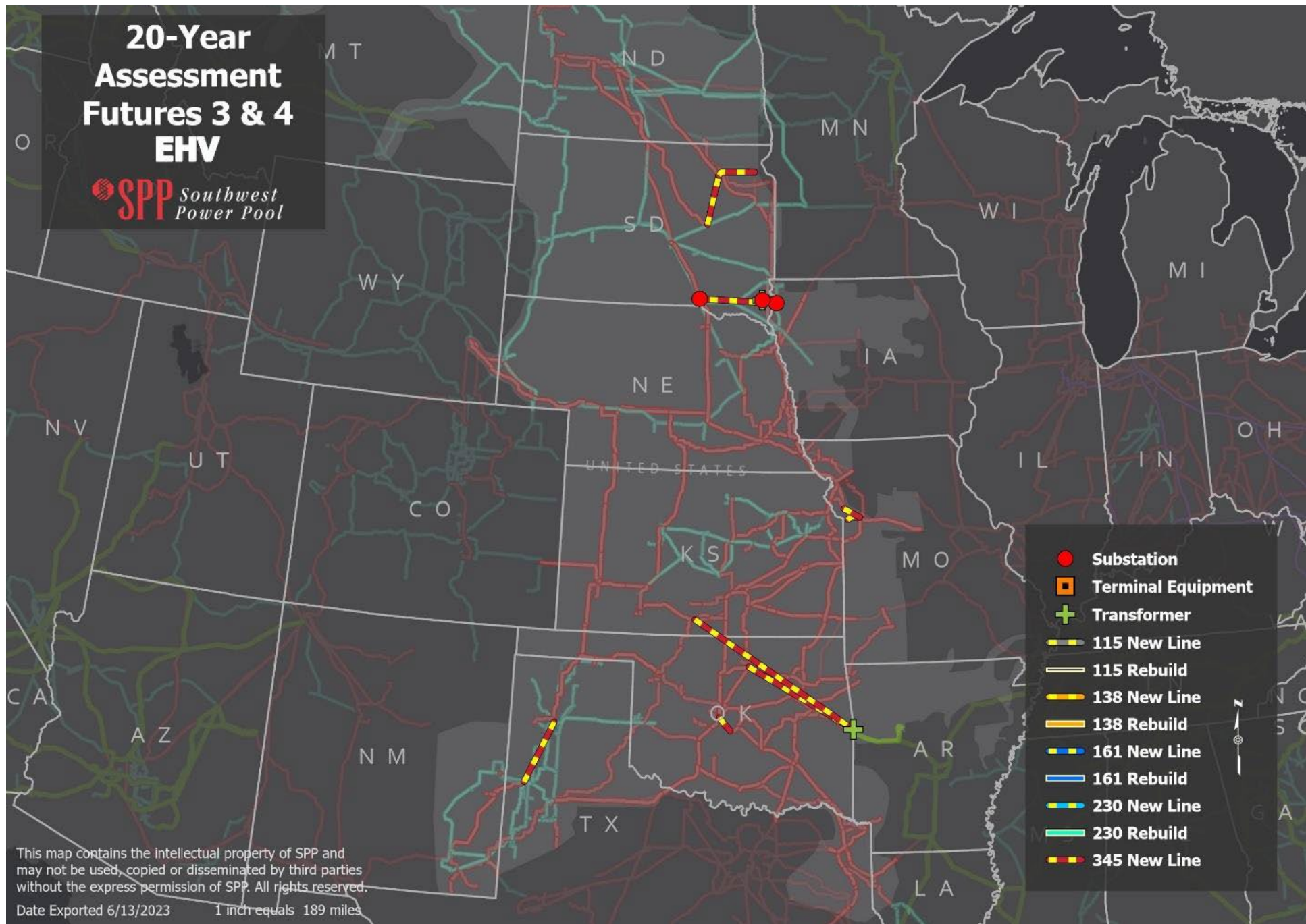
20-Year Assessment Futures 1 & 2 EHV



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Date Exported 6/13/2023 1 inch equals 189 miles

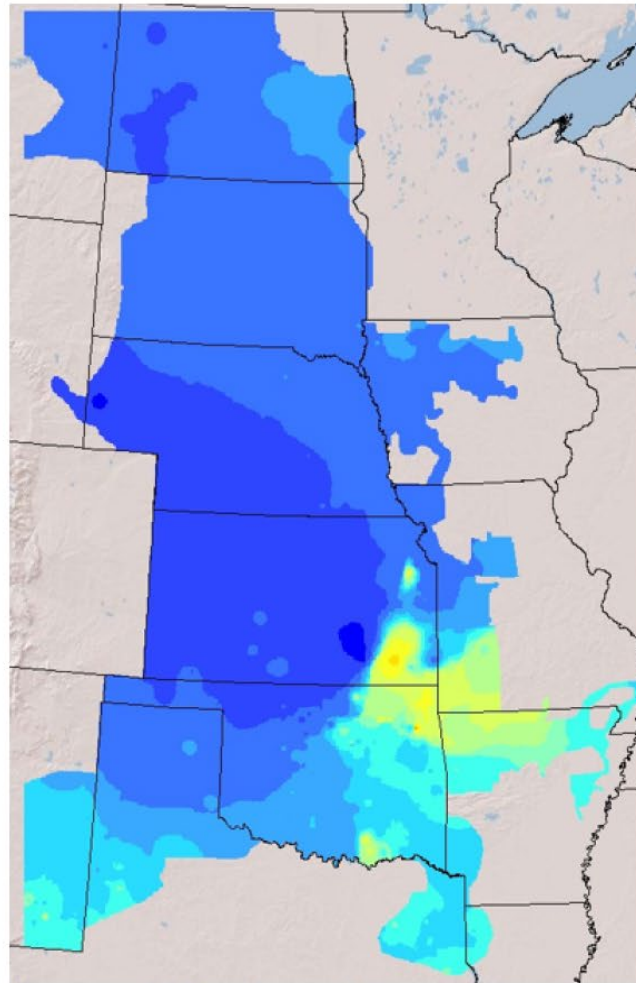
20-Year Assessment Futures 3 & 4 EHV



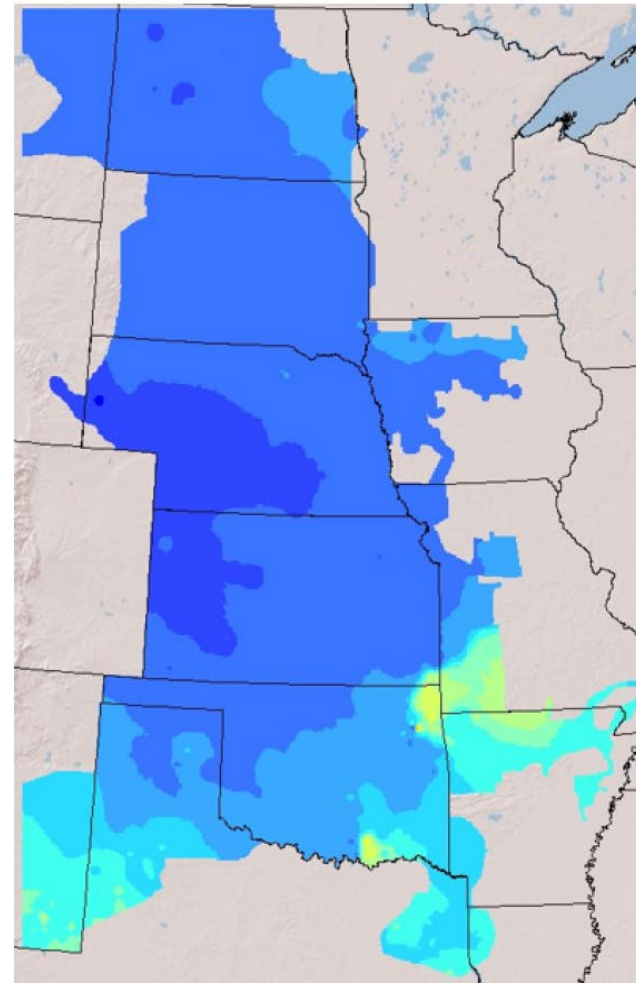
- Substation
- Terminal Equipment
- + Transformer
- 115 New Line
- 115 Rebuild
- 138 New Line
- 138 Rebuild
- 161 New Line
- 161 Rebuild
- 230 New Line
- 230 Rebuild
- 345 New Line

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2019 ITP Economic Projects Congestion Relief



Average LMP prices without projects



Average LMP prices with projects

