



# QUARTERLY RTO STATUS UPDATE

MISSOURI PUBLIC SERVICE COMMISSION

NOVEMBER 6, 2024

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



SouthwestPowerPool



SPPorg



southwest-power-pool

# TOPICS

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In-Service Date Delay Update

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Generator Interconnection Queue

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2024 Integrated Transmission Plan

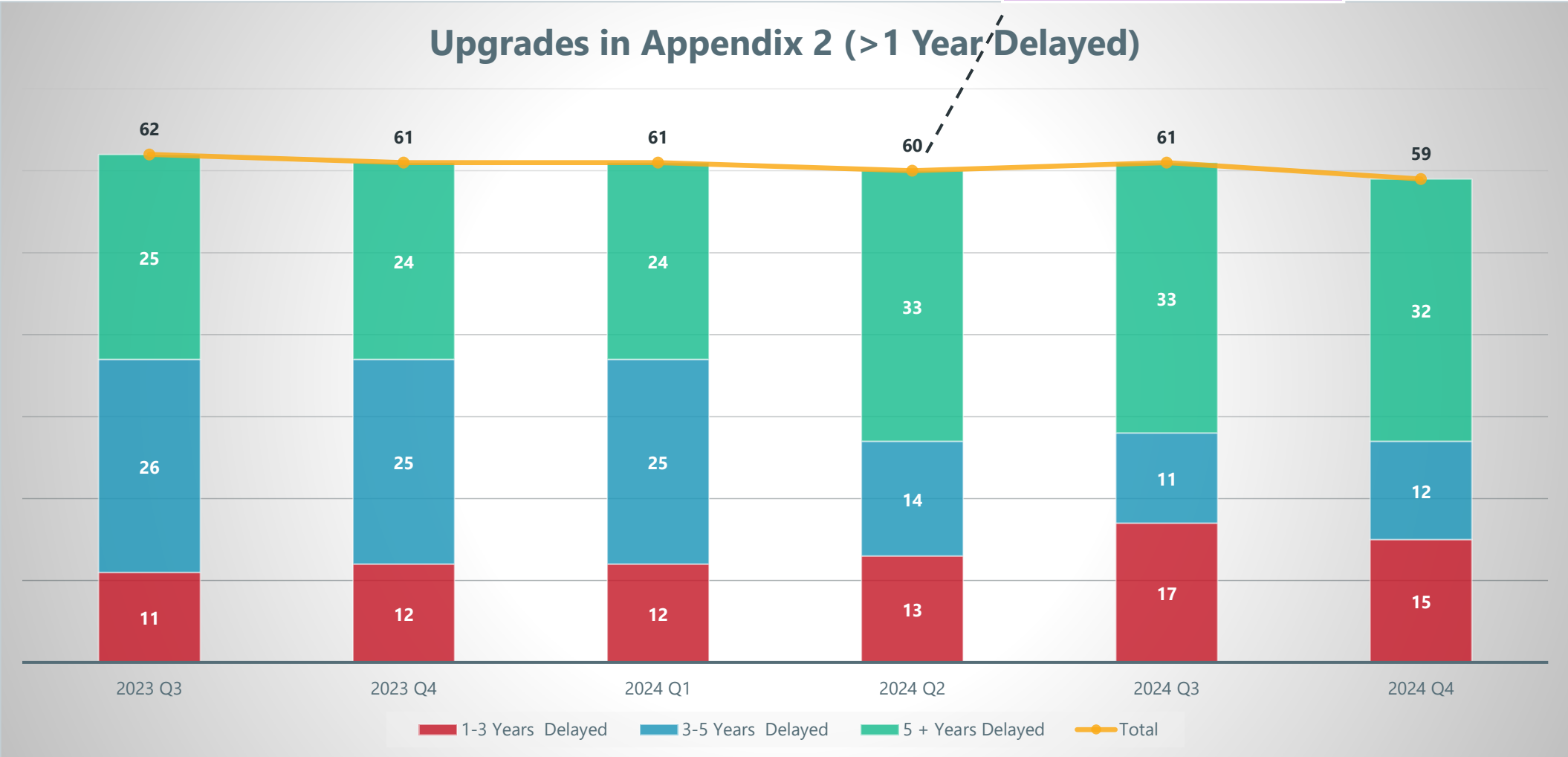
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Competitive Bid Process

# **IN-SERVICE DATE DELAY UPDATE**

# ISD DELAY PROGRESSION

Jump in 5+ year delayed projects coincides with first quarter of reporting after approval of ISD Delay Reporting RR



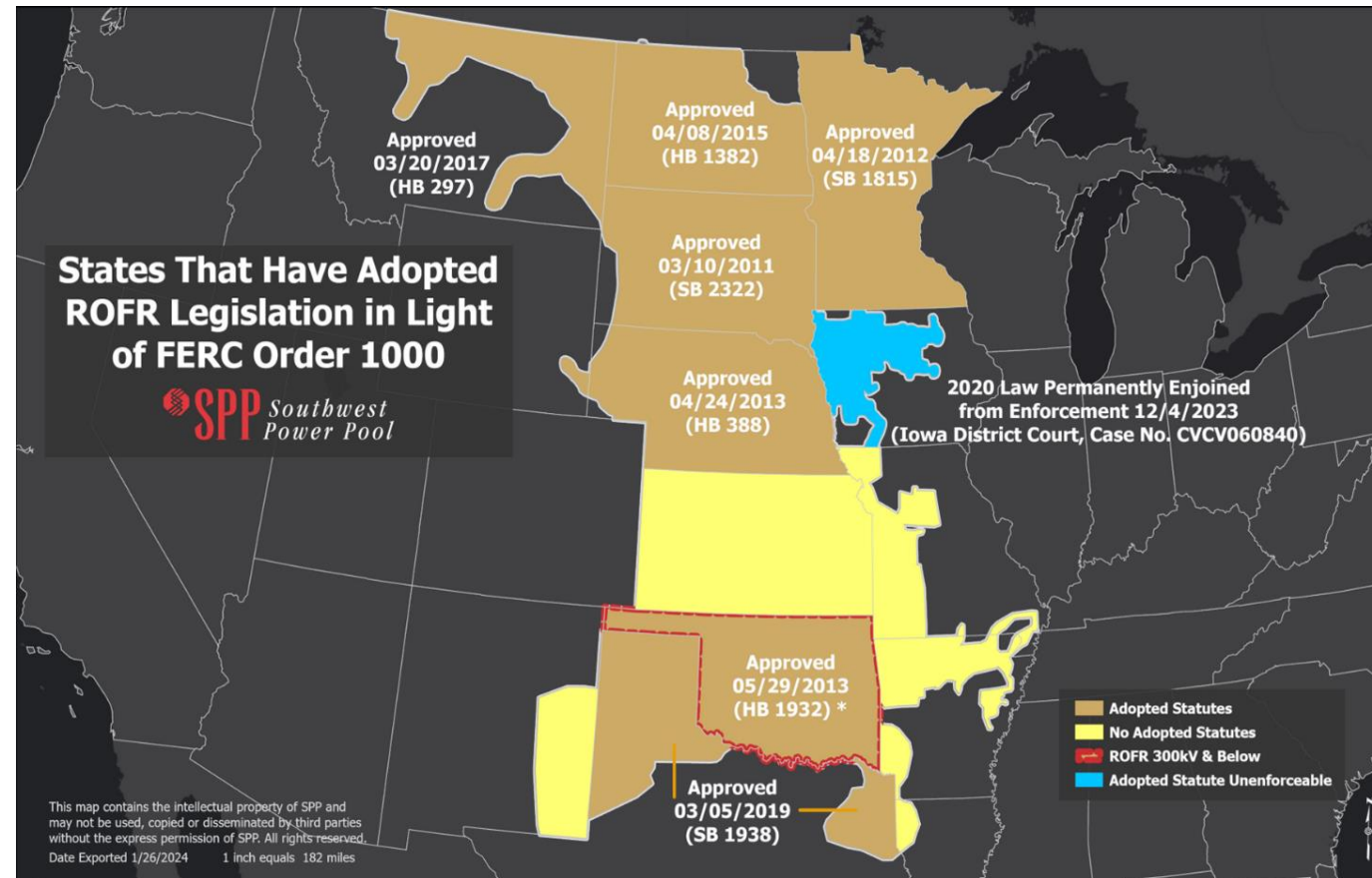
# ISD DELAY IMPROVEMENTS

- **Clarification of Need Date vs. In-Service Date**
  - Previously only the Need Date was used for tracking which was at times unachievable and diluted the meaning of “delayed”
  - The clarification of In-Service Date adds realistic accountability
- **More attention than ever is being paid to current NTC ISDs**
  - New review/approval process developed in '23 and implemented in '24 has ramped up scrutiny at NTC issuance
  - NTC delays are discussed at all PCWG meetings
- **Since approval of the ISD Delay Reporting RR**
  - 31 upgrades are in-service or complete since tracking
  - 1 upgrade approved for withdrawal



# ONGOING CHALLENGES

- Legal and Regulatory Challenges and Complexities
  - Property Laws
  - Right of First Refusal (ROFR) Laws
- 59 Projects currently delayed > 1 year
  - 81% are brownfield
  - 98% are in ROFR states
  - 100% are either brownfield or ROFR
    - All currently delayed projects by ISD face one or both challenges
- Diverse Stakeholder Opinions
  - Reporting and Transparency vs. Enforcement and Project Prioritization



# 2024 ITP PORTFOLIO ISD DELAY RISK

- Total Portfolio (\$7.6B)
  - Low Risk (\$4.7B)
  - Medium Risk (\$2.7B)
  - High Risk (\$0.2B)

Assumed DTOs with minimal delayed upgrades  $\geq 3$  years

Assumed DTOs with many delayed upgrades  $\geq 3$  years

Low/Medium/High Risk is based on the 2024 ITP projects assumed DTO and their current number of delayed upgrades

# ITP PORTFOLIO ISD DELAY HISTORY

- 93% of upgrades delayed > 1 year were issued in or before 2021
  - 2024 ITP upgrades wouldn't be expected to be reported as delayed until 2027
- Only 13% of total ITP upgrades by cost are delayed > 1 year
  - \$4.79B in upgrades issued from ITP since 2012<sup>1</sup>
    - \$626M ITP upgrades are delayed > 1 year
      - \$451M of that is the R-Project from the 2012 ITP10
    - Without the R-Project only 4% of all ITP projects by cost are delayed > 1 year

<sup>1</sup> – From 2024 SPP Transmission Expansion Plan Report

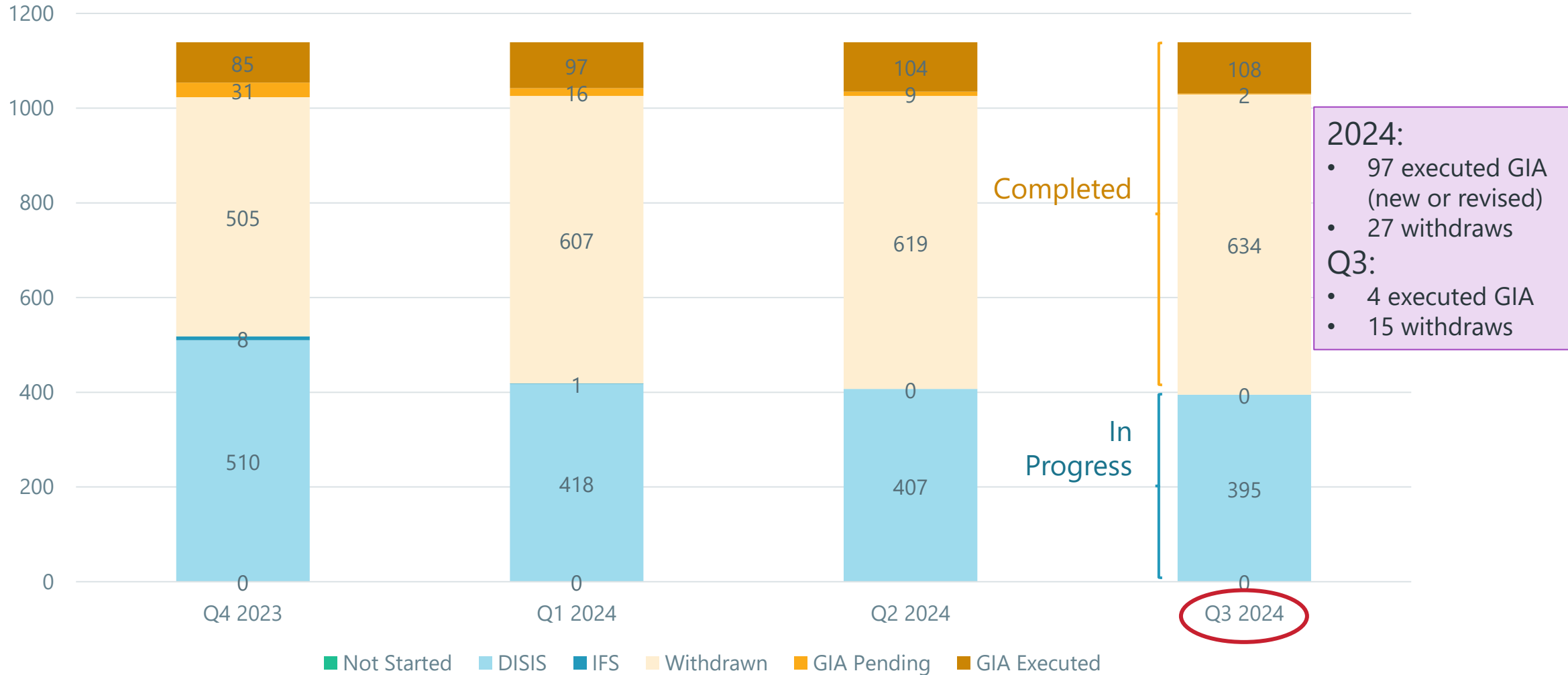
# **GENERATOR INTERCONNECTION UPDATE**



# HOW ARE WE DOING? BACKLOG MITIGATION

Progress towards eliminating the backlog

Active queue began with 1139 Requests = 221 GW  
As 9/25/2024: 395 active requests = 82 GW



# HOW ARE WE DOING?

## GENERATION ADDED TO THE SYSTEM

### Generation added in the last 18 months

New Service GIA

84

15.8  
GW

Interim GIA

10

Surplus GIA Replacement

11

GIA

5

Market Registrations

45

4.1GW

As we work through the backlog, new generators are being added to SPP's resource pool

Since January 2017:  
**41.6 GW** added to the system  
**243 New GIAs** executed

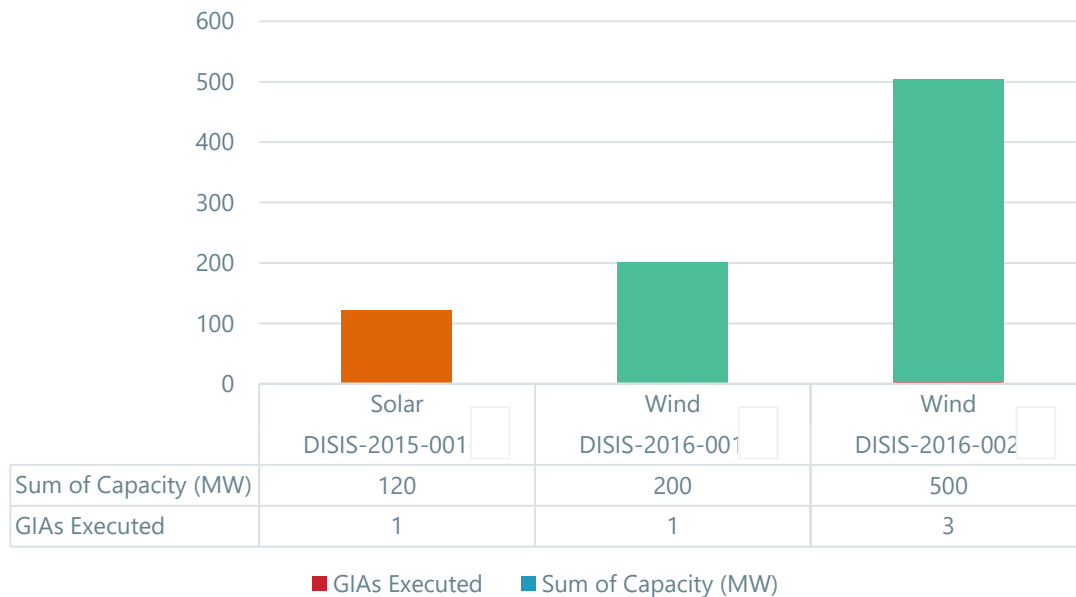
In 2024, the 97 executed GIA have resulted in 17.1 GW

# 2024 COMMERCIAL OPERATION UPDATE

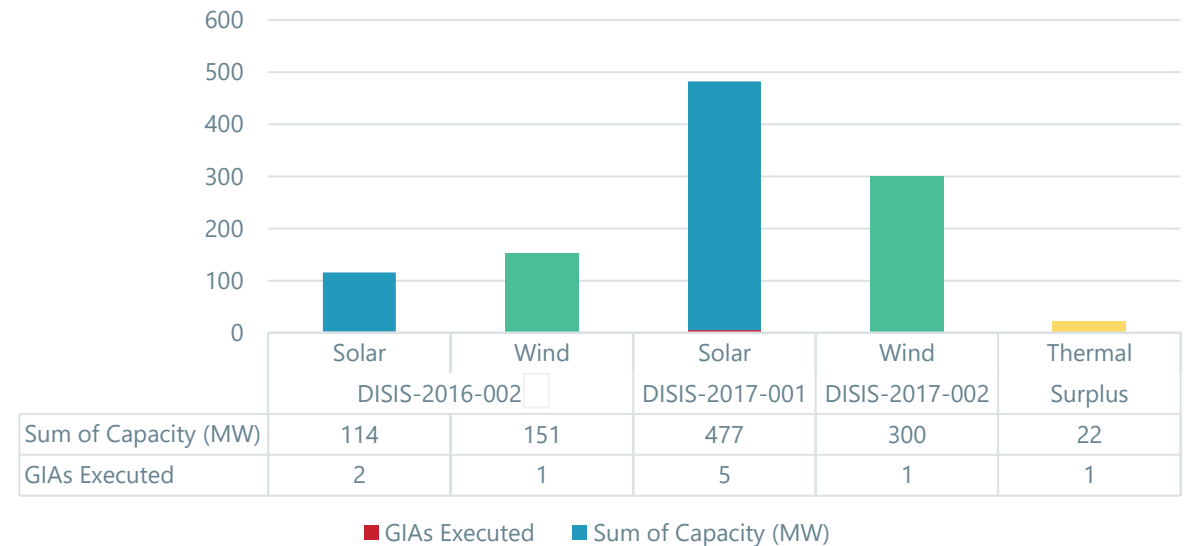
As of 9/2/2024 we have had 4 projects with a total of 820 MW declare Commercial Operation

There are 10 projects with 2024 COD's that have not yet declared their projects are in Commercial Operation

2024 COD by Cluster and Generation Type



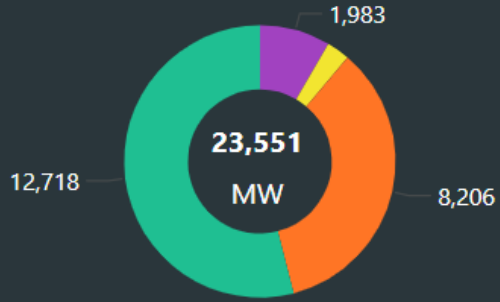
Projects with 2024 COD that have not reached Commercial Operation



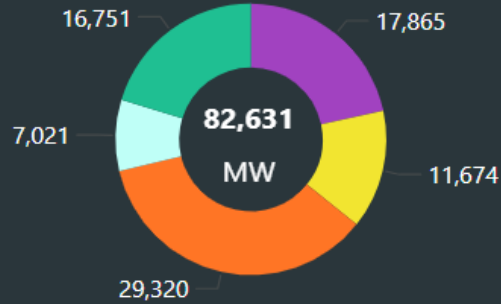
135 projects with executed GIAs expected to come on-line within the next 6 years

409 projects in active study status. Based on historical 60% withdrawal rate, SPP estimates 164 additional projects to come on-line in next 6 years

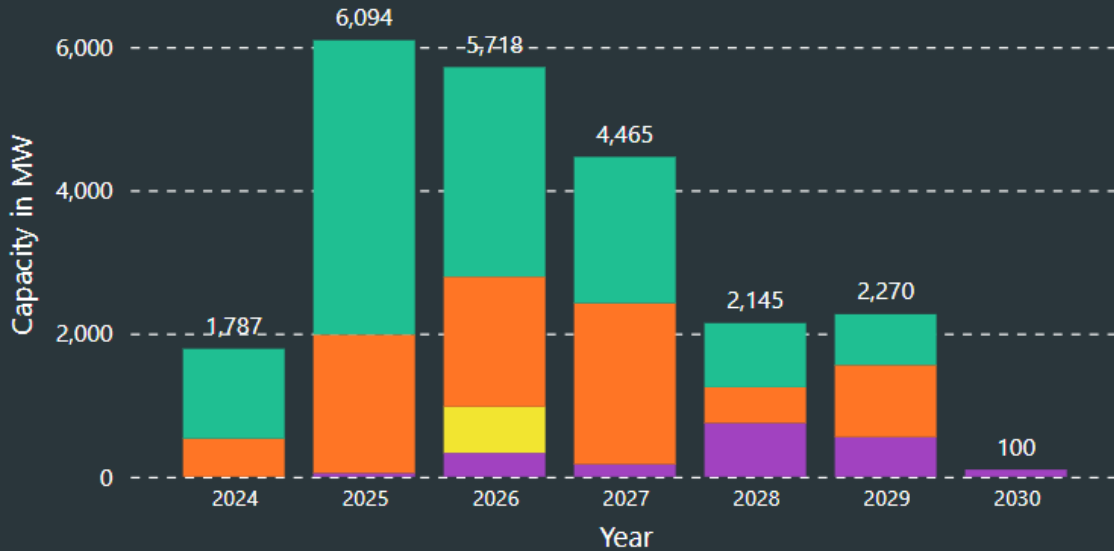
Executed GIA Generation (MW)



Active Study Generation (MW)



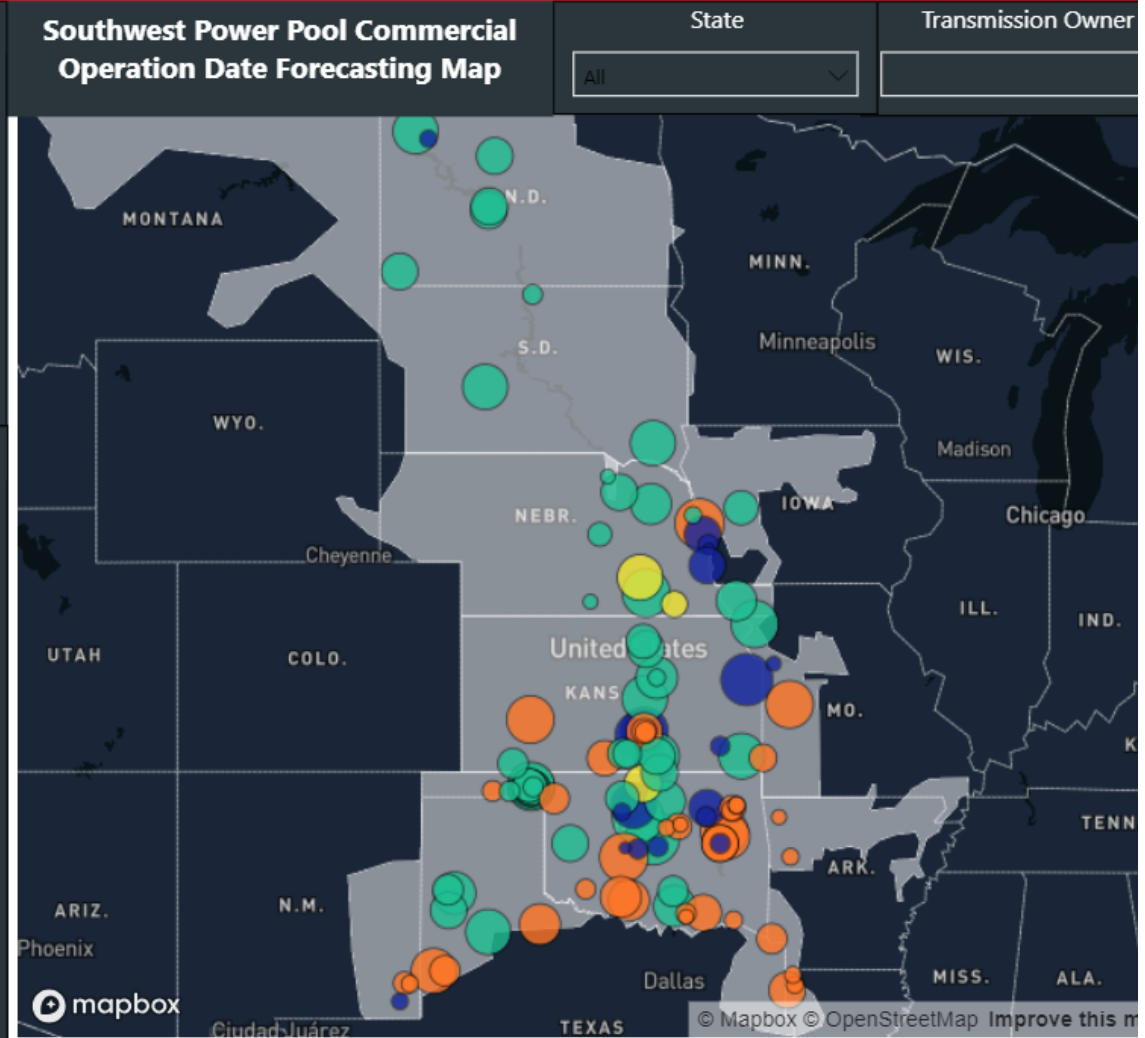
Executed GIA by Commercial Operation Year



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

# Commercial Operation Date Forecast

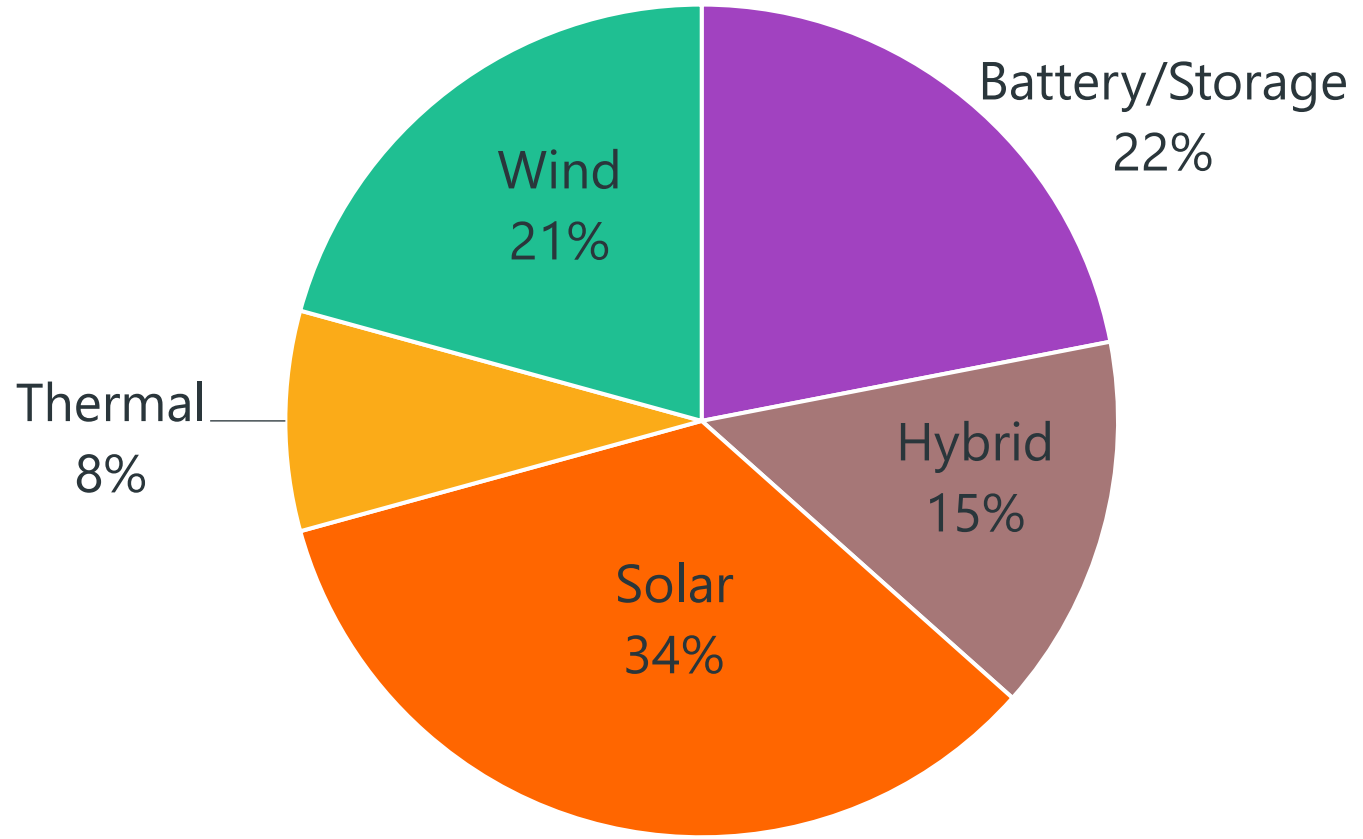
Southwest Power Pool Commercial Operation Date Forecasting Map

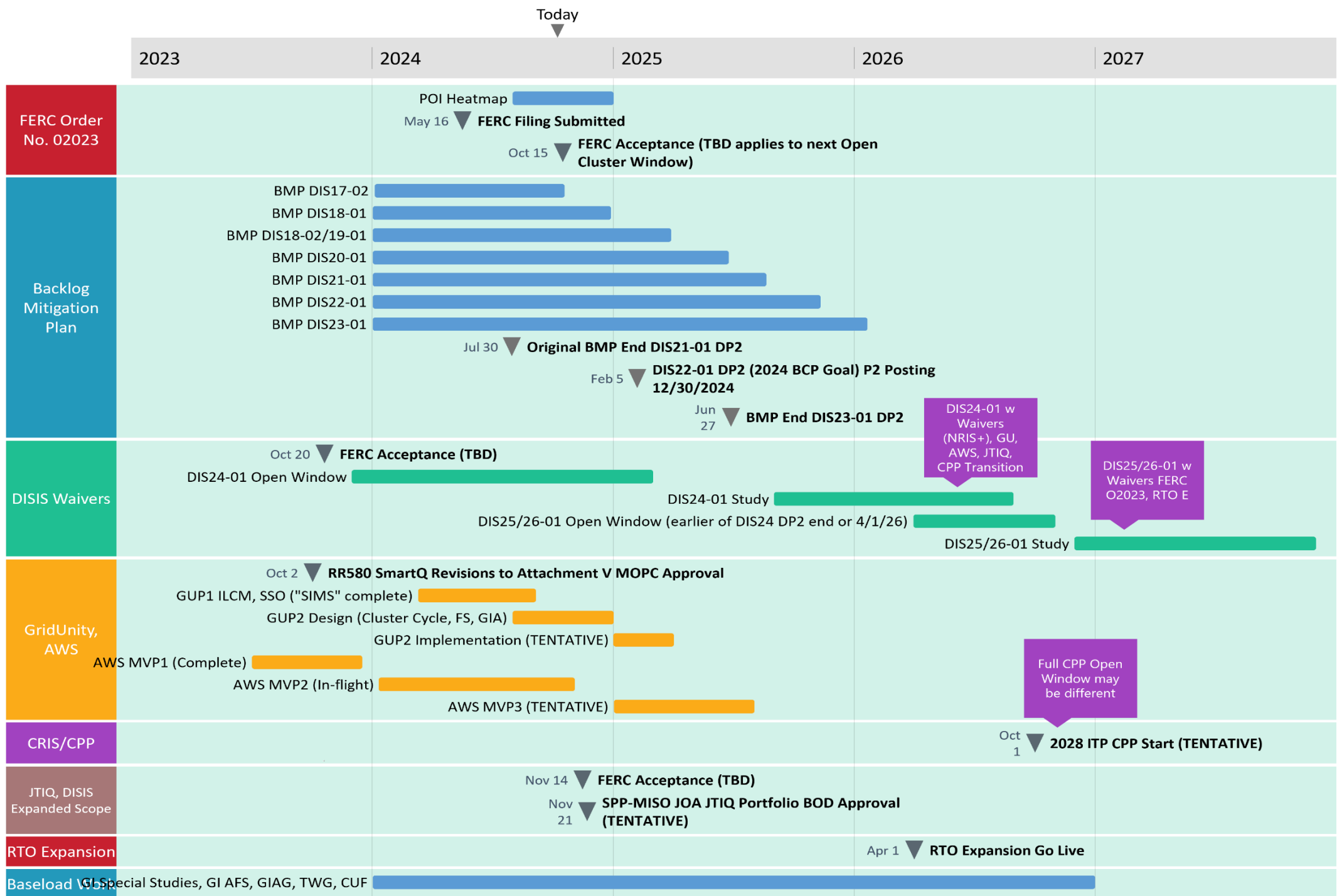


**Disclaimer:** The data provided is for information purposes only. Questions? Submit to [Request Management System](#). Click [HERE](#) for SPP GI Web Site. Click [HERE](#) for GI Queue data.

# REQUESTS PENDING IN THE CURRENT GI QUEUE

GEN TYPE	Requests	GW Capacity
Battery / Storage	109	18 GW
Hybrid	50	12 GW
Solar	138	28 GW
Thermal	28	7 GW
Wind	70	17 GW
<b>TOTAL</b>	<b>395</b>	<b>82 GW</b>






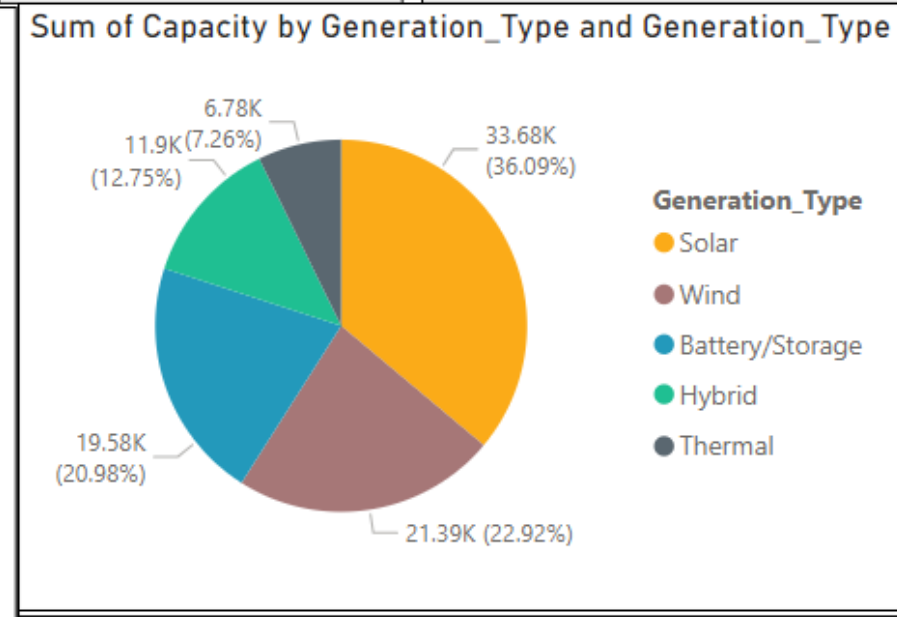
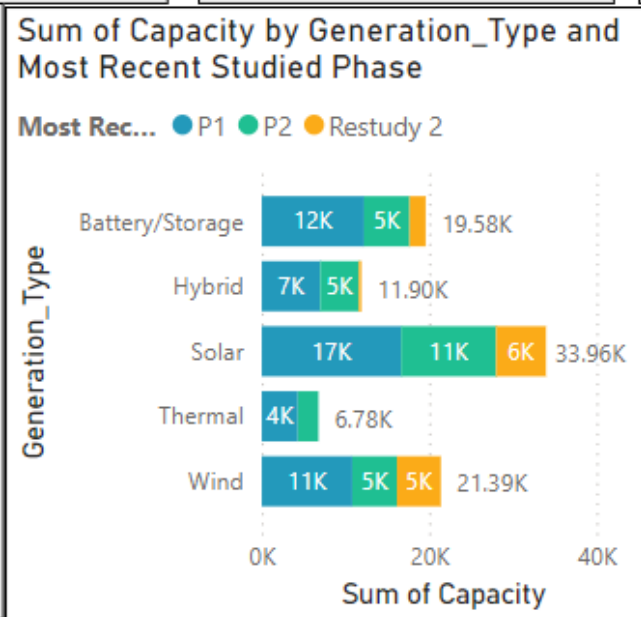
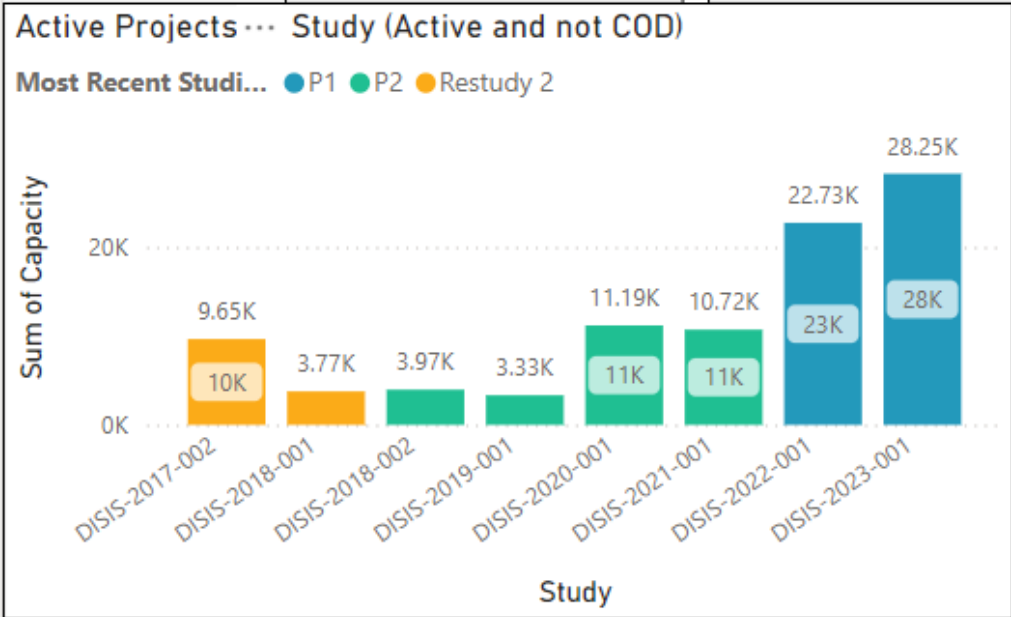


# GI QUEUE INFORMATION FOR MISSOURI

# TOTAL QUEUE


- Total capacity in the SPP GI Queue exceeds 82,000 MW with 36% of that from solar projects.
- Projects in “Restudy 2” have received a GIA

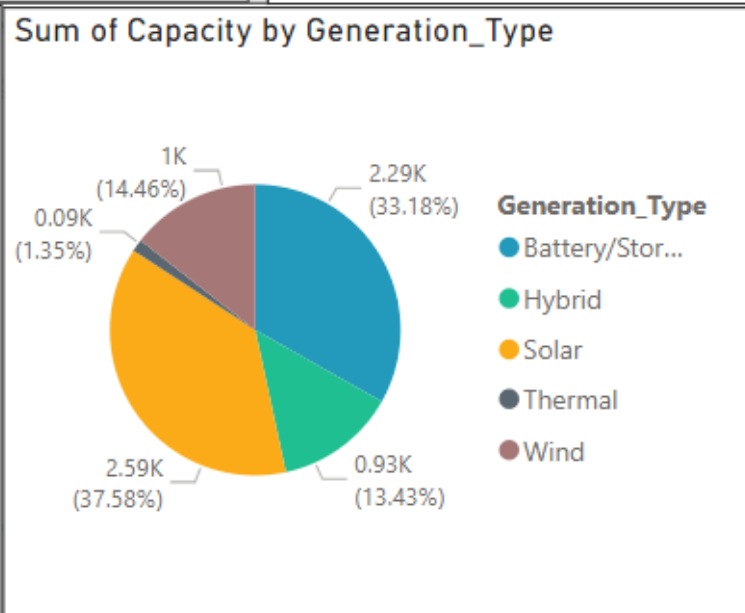
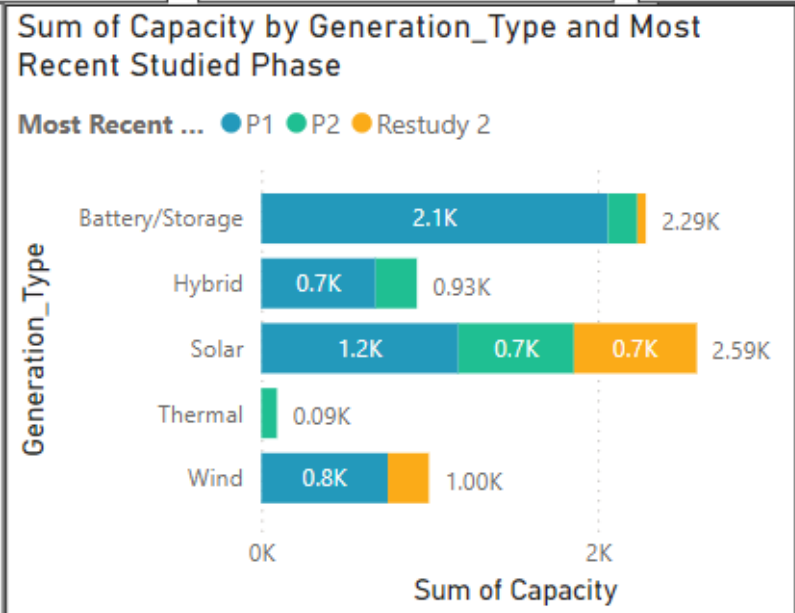
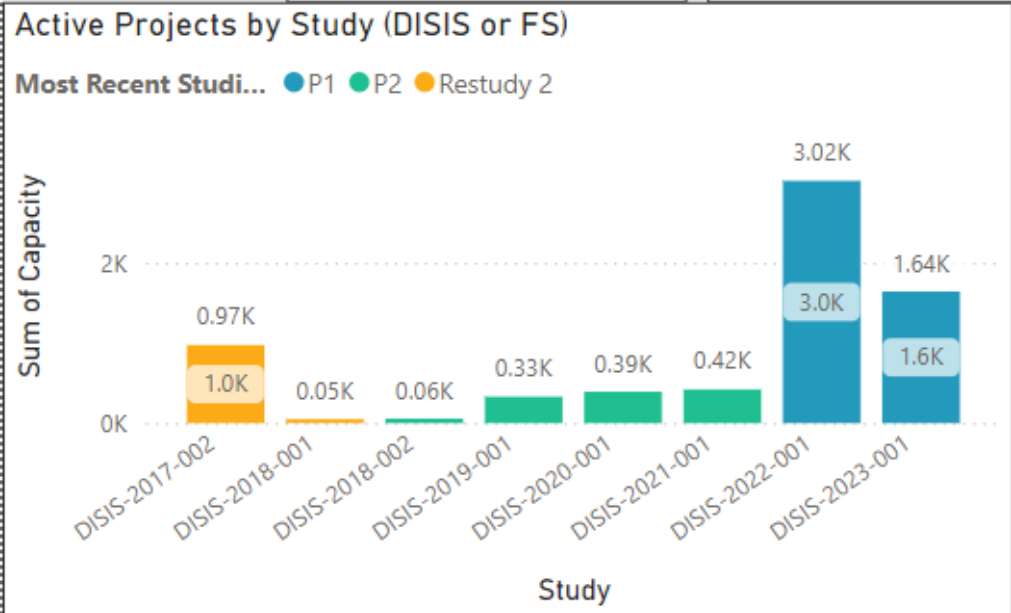
	<b>Active Capacity</b> <b>82,418.42</b> Sum of Capacity (MW)	<b>Active Project Customers</b> <b>160</b> Customers	<b>Active Upgrades</b> <b>\$11,367,277,721</b> Sum of Allocated Cost	<b>High % Projects</b> <b>54,826.05</b> Sum of MW	<b>High % Active Upgrades</b> <b>\$3,629,217,429</b> Sum of Allocated Cost
	<b>405</b> Count of GI_Number	<b>30</b> TOs	<b>1600</b> Count of Upgrade Name	<b>260</b> Count of Gen Number	<b>956</b> Count of Upgrade Name



# MISSOURI ONLY

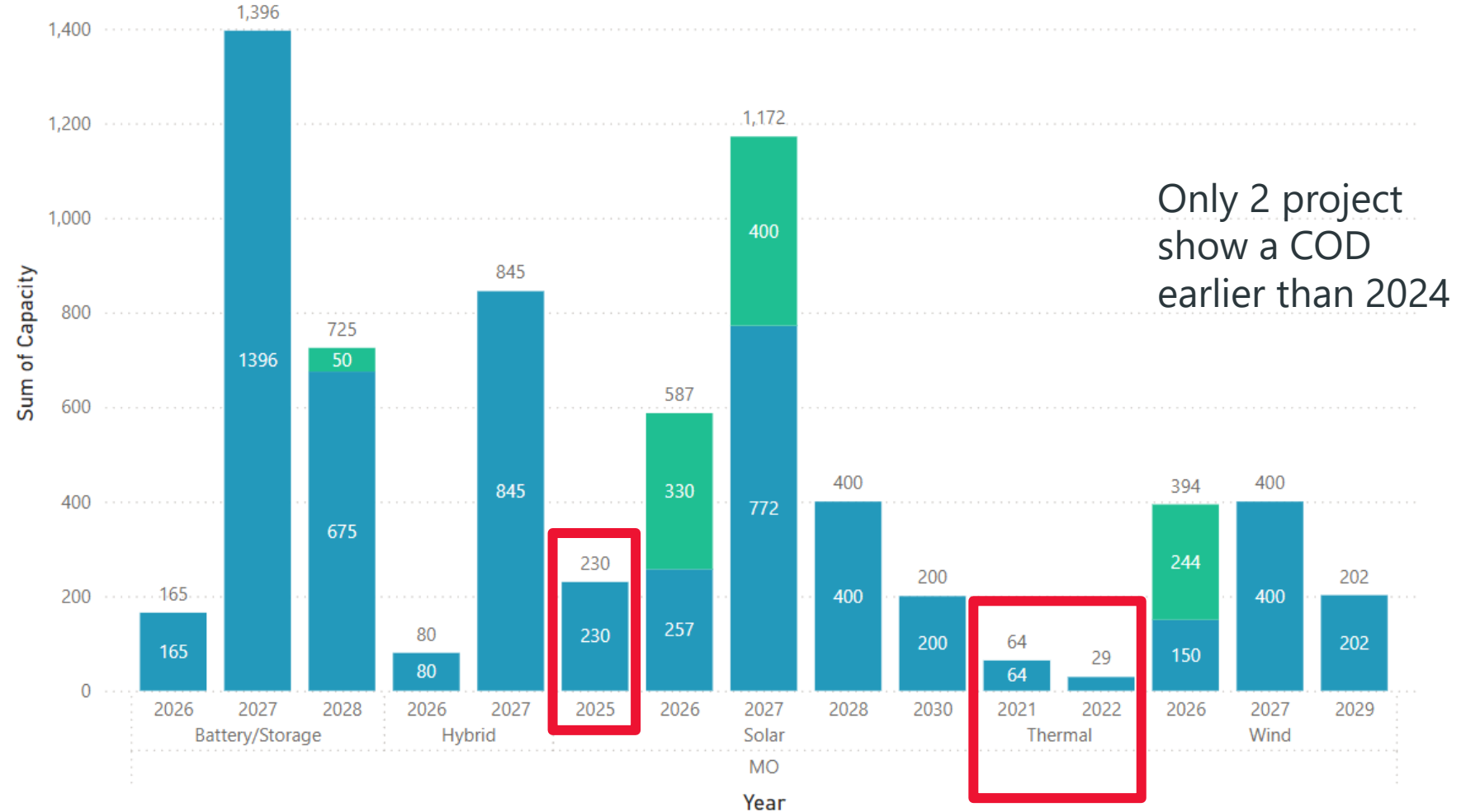
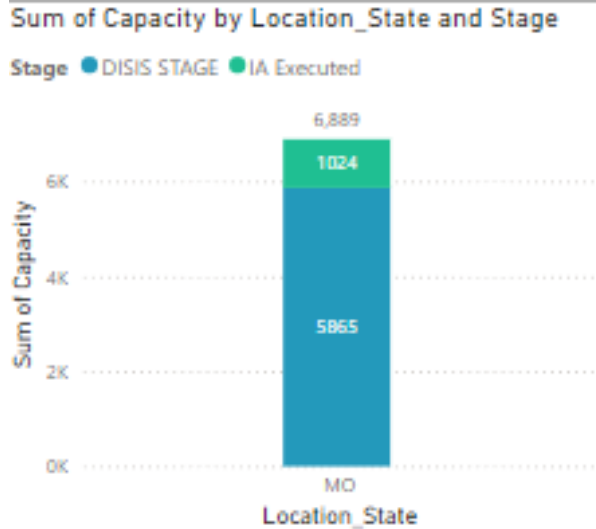
Total capacity in Oklahoma Queue exceeds 6000 MW with 38% of that from solar projects.

	<b>Active Capacity</b> <b>6,034.99</b> Sum of Capacity (MW)	<b>Active Project Customers</b> <b>21</b> Customers	<b>Active Upgrades</b> <b>\$994,130,807</b> Sum of Allocated Cost	<b>High % Projects</b> <b>2,445.99</b> Sum of MW	<b>High % Active Upgrades</b> <b>\$177,353,200</b> Sum of Allocated Cost
	<b>37</b> Count of GI_Number	<b>7</b> TOs	<b>181</b> Count of Upgrade Name	<b>19</b> Count of Gen Number	<b>106</b> Count of Upgrade Name



# MO DETAIL BY GEN TYPE AND COD YEAR

Stage ● DISIS STAGE ● IA Executed



GEN-2020-064  
GEN-2020-061

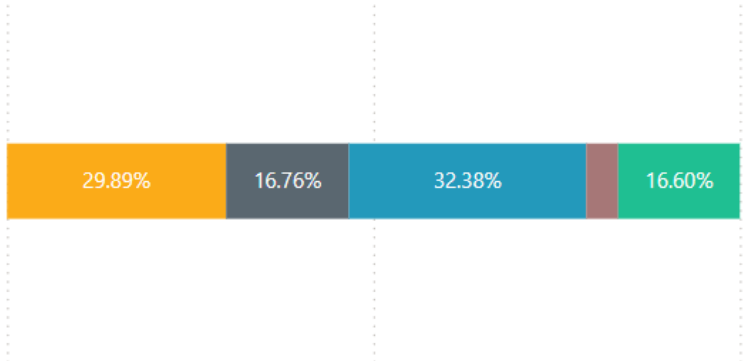
# MISSOURI % BREAKDOWN BY STUDY STAGE

[Back to report](#)

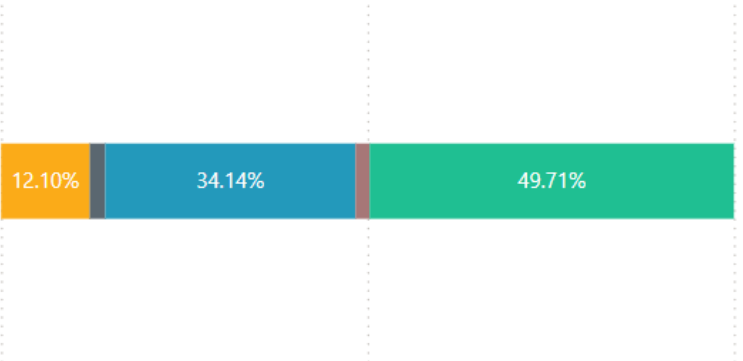
SUM OF CAPACITY BY GENERATION\_TYPE AND STATUS (GROUPS)

Generation\_Type ● Battery/Storage ● Hybrid ● Hydro ● Solar ● Thermal ● Wind

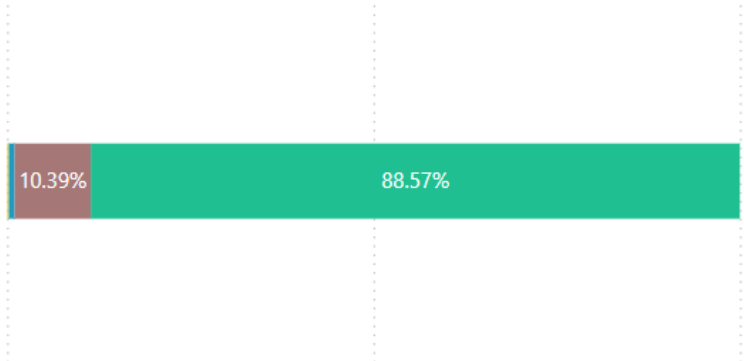
DISIS STAGE



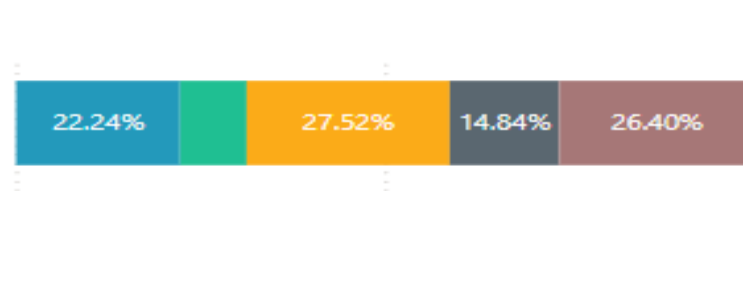
IA EXecuted



Reached COD



All Stages Combined



0%

50%

100%

Sum of Capacity

0%

50%

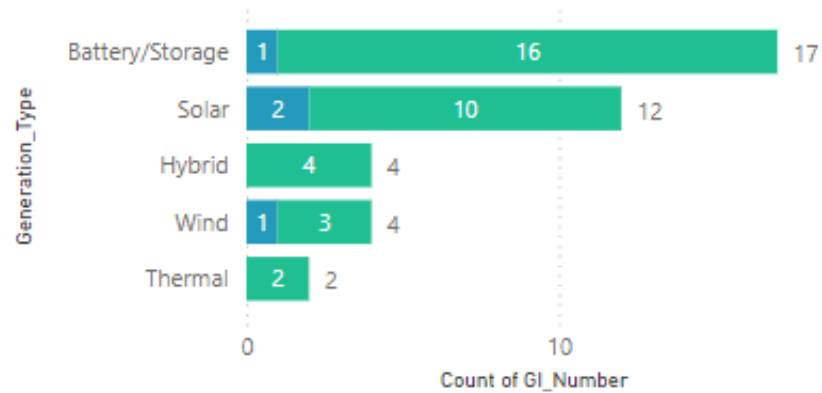
100%

Sum of Capacity

# MISSOURI DETAIL BY PROJECT AND TRANSMISSION OWNER

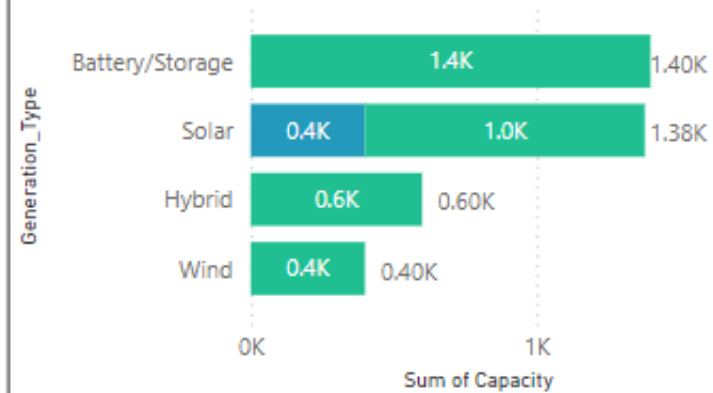
### Count of Project by Study Stage

Status of Projects ● IA Executed ● In Study



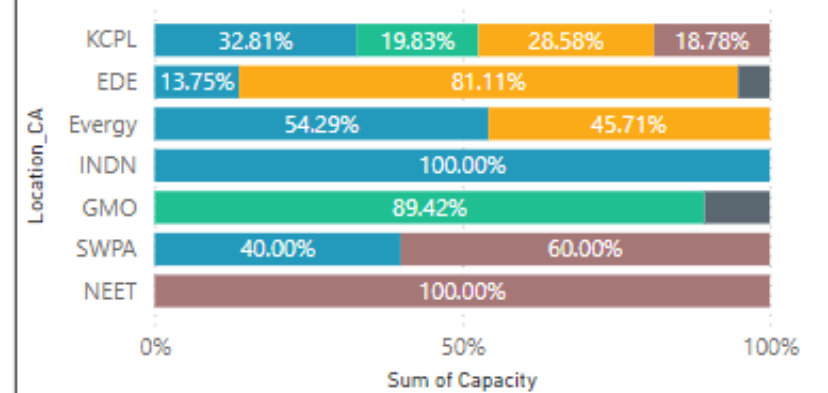
### Sum of Capacity by Study Stage

Status of Proj... ● IA Executed ● In Study



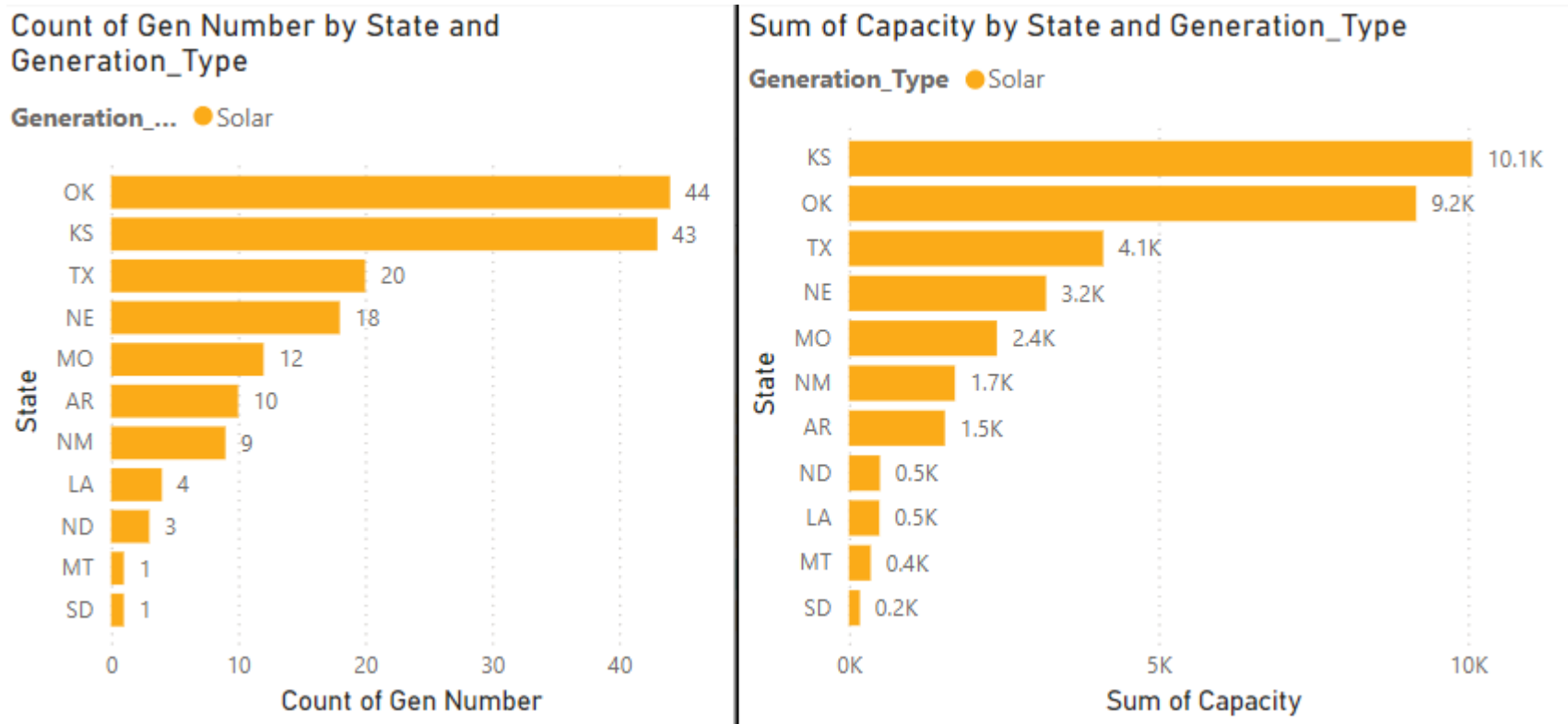
### % Breakdown of Capacity by TO

Generation\_Type ● Battery/Stora... ● Hybrid ● Solar ● Thermal ● Wind





# SOLAR COMPARISON BY STATE



# **INTEGRATED TRANSMISSION PLAN (ITP) UPDATE**

**Our Generational Challenge**  
A Reliable Future for Electricity



Excess generating capacity in SPP is shrinking to dangerously low levels.

As coal and gas generators are being retired, SPP increasingly depends on renewable energy, which is cleaner and lower cost but challenging due to its variability.



Emerging technologies can be helpful but need more investment and development to address today's challenges.

All generation types struggle to perform during extreme weather when demand is highest and human health and safety are at greatest risk.



We need significant amounts of new transmission and generation, which is costly and takes years to complete.

**SUPPLY**



Our world is increasingly becoming electrified, and demand is rapidly rising across the U.S.

Demand in SPP could be 25% higher by 2030.



New sources of demand — data centers, crypto mining, oil and gas production, electric cars — consume tremendous energy.

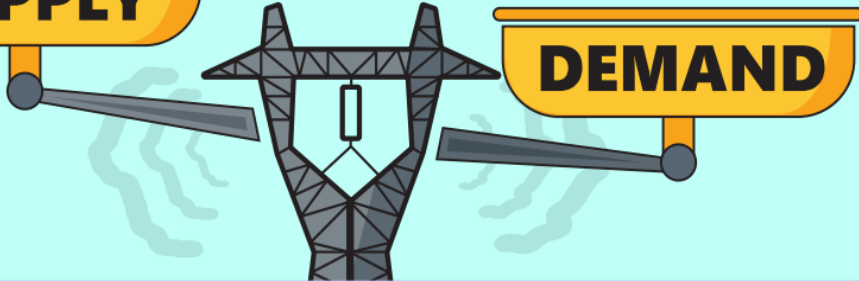


Extreme weather events are more frequent and cause greater consumption during times of urgent need.



Winter and summer peak demands are growing at alarmingly high rates.

**DEMAND**



Our risks will increase exponentially if we don't take steps to address our generational challenge.



To meet the supply and demand challenge, more transmission and generation must be built.

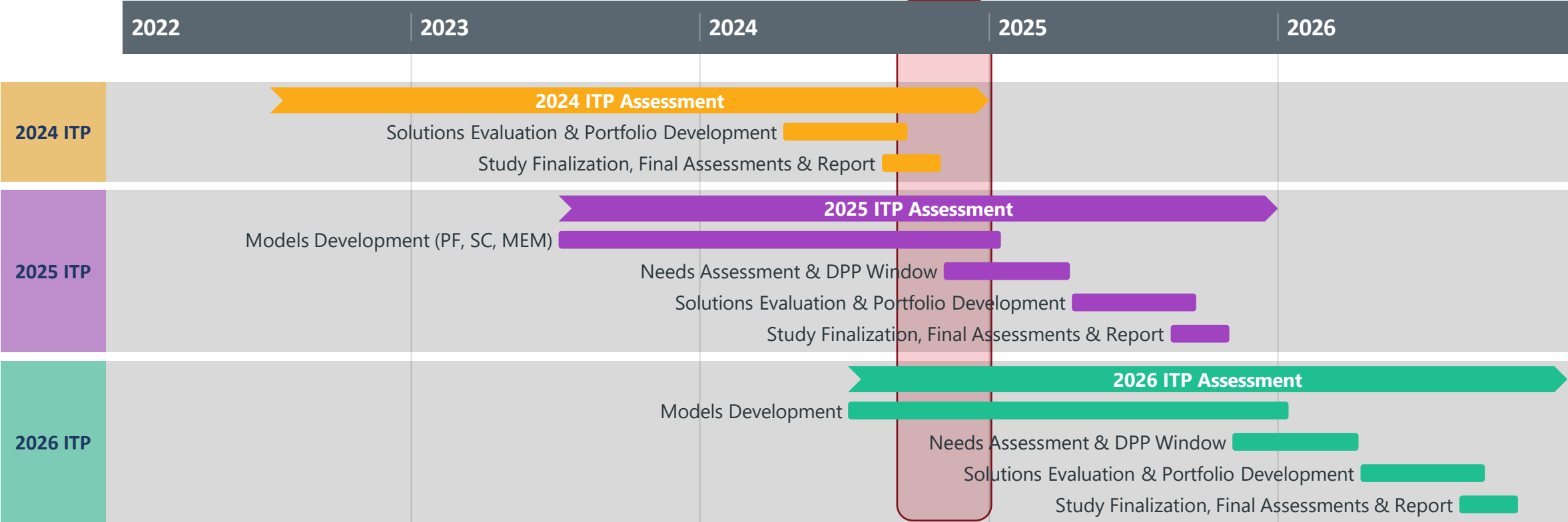
# ASPIRE 2026



STRENGTHEN THE CORE CHANGE THE GAME

# ITP STUDY OVERLAPS – ACTIVE STUDIES

The 2024 ITP, 2025 ITP and 2026 ITP (Including CPP Transition Study) are in progress and had schedule overlap in Q3. The 2024 ITP has completed final assessments while the 2025 ITP and 2026 ITP continue with planning and modeling tasks into Q4.




# 2024 INTEGRATED TRANSMISSION PLAN

## COLLABORATION

- 11 Organizational Groups, 138+ meetings
- Evaluated >2,100 solutions
- 27-month study


INPUTS



## RESULTS


- 2,333 miles of new transmission
  - 1,495 miles 345 kV
  - 293 miles 765 kV
- 495 miles of rebuilt transmission
- 89 new transmission projects

OUTPUTS



- More reliable and resilient grid
- Cost levelization across SPP footprint
- Relief of operational congestion
- Facilitation of generation interconnection, resource adequacy and delivery point load additions

IMPACT



## VALUE

OUTCOMES

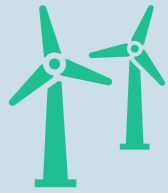


- Final Portfolio Benefits
- \$7.68B E&C costs
  - \$10.77B 40-year PV cost
  - \$88.7B - \$95.7B Lower 40-year APC
  - 8.23 - 8.88 40-year B/C ratio range

## BENEFITS

# WHAT'S NEW AND WHAT HAS CHANGED IN THE 2024 ITP?

While SPP's typical renewable growth trends continue, the **main drivers** of projects in the 2024 ITP are **rapid load growth** and **extreme winter weather analysis**

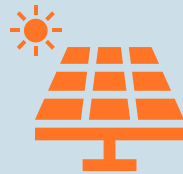


## 2023 ITP

- F1 Y5: 37 GW
- F1 Y10: 41 GW
- F2 Y5: 38 GW
- F2 Y10: 46 GW

## 2024 ITP

- F1 Y5: 48.2 GW
- F1 Y10: 54.9 GW
- F2 Y5: 52.3 GW
- F2 Y10: 59.1 GW



## 2023 ITP

- F1 Y5: 4.4 GW
- F1 Y10: 11 GW
- F2 Y5: 5.9 GW
- F2 Y10: 15 GW

## 2024 ITP

- F1 Y5: 9.4 GW
- F1 Y10: 19.1 GW
- F2 Y5: 19.1 GW
- F2 Y10: 24.1 GW



Load Growth Across the footprint

Rapid Load Growth in specific zones  
(Upper Missouri Zone, Southwestern Public Service)



Elliott Model

Uri-Based Model



# 89 NEW TRANSMISSION PROJECTS

**148**  
MILES OF  
REBUILT EHV  
TRANSMISSION

**1,788**  
MILES OF  
NEW EHV  
TRANSMISSION

If the rebuilt and new lines were strung together, they would span from the bottom of SPP's footprint to the top...and back!



**1,062**  
SYSTEM  
ISSUES  
MITIGATED

MILES OF REBUILT  
HIGH VOLTAGE  
TRANSMISSION

**347**

**545**  
MILES OF  
NEW HIGH VOLTAGE  
TRANSMISSION

# COST AND BENEFIT

## E&C Costs by Grouping

Reliability: \$3,147,438,114

Short Circuit: \$ 1,873,928

Winter Weather: \$ 2,229,622,633

Operational: \$ 297,636,782

**Economic: \$2,005,274,280**

**\$7,681,845,737**



Portfolio optimizes reliability, resiliency and economics to bring substantial benefits to the region

2024 IT B/C is 8.2-8.8 compared to the previous ITP historical max of 5.8

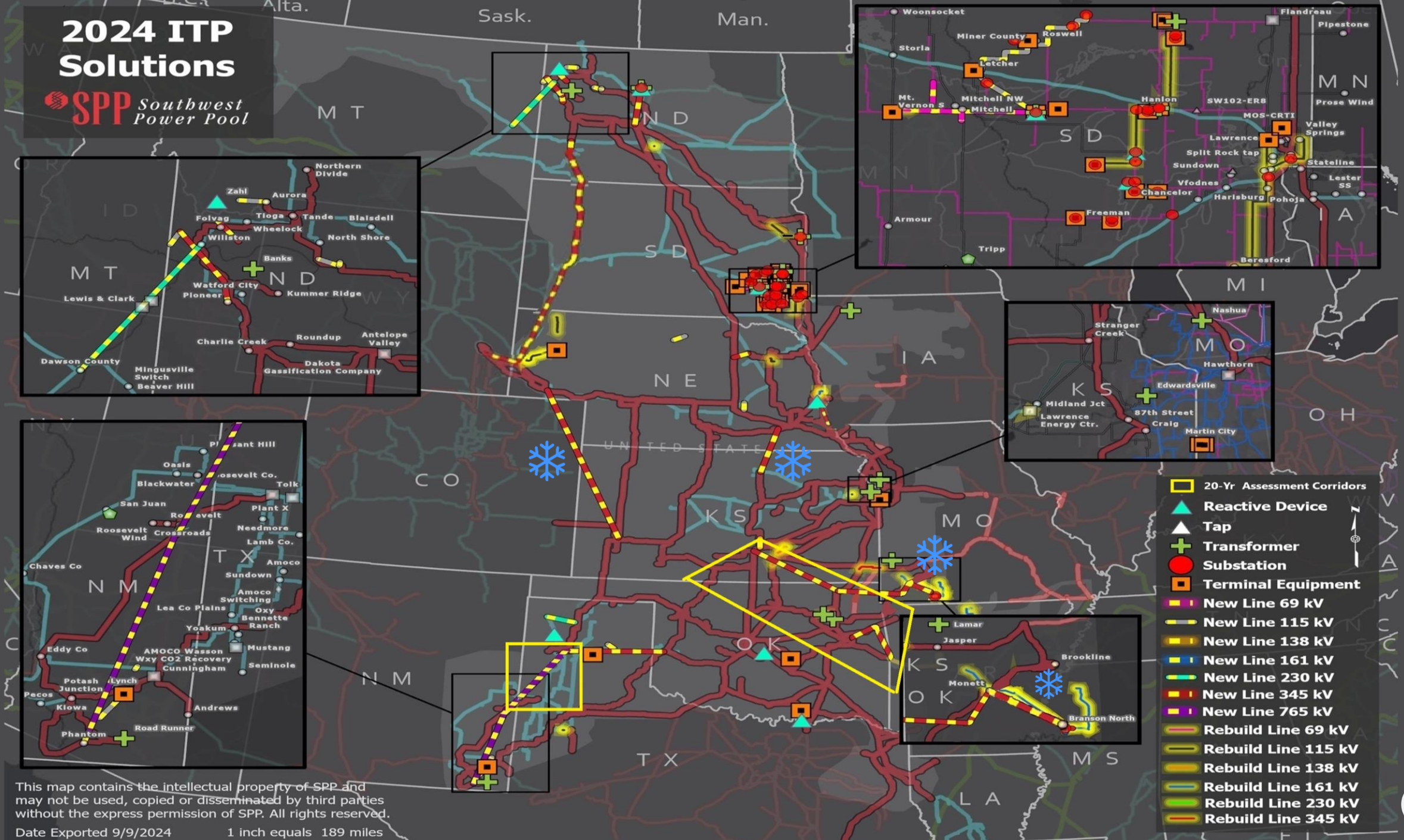
Project Type	40-Year Present Value (PV) in 2024\$		
	Total ATRR Cost	APC Benefit (F1)	APC Benefit (F2)
<b>Reliability &amp; Short Circuit</b>	\$4.34	\$71.28	\$77.38
<b>Winter Weather</b>	\$3.13	\$0.43	\$0.71
<b>Operational</b>	\$0.42	\$1.05	\$1.38
<b>Economic</b>	\$2.87	\$4.21	\$4.66
<b>Full Portfolio</b>	\$10.77	\$88.68	\$95.66

Note: Economic projects that addressed Reliability or Operational need types were included in the other need type's calculation





# 2024 ITP Solutions



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Date Exported 9/9/2024 1 inch equals 189 miles

- 20-Yr Assessment Corridors
- Reactive Device
- Tap
- Transformer
- Substation
- Terminal Equipment
- New Line 69 kV
- New Line 115 kV
- New Line 138 kV
- New Line 161 kV
- New Line 230 kV
- New Line 345 kV
- New Line 765 kV
- Rebuild Line 69 kV
- Rebuild Line 115 kV
- Rebuild Line 138 kV
- Rebuild Line 161 kV
- Rebuild Line 230 kV
- Rebuild Line 345 kV



**2024 ITP  
Winter Weather  
Projects**



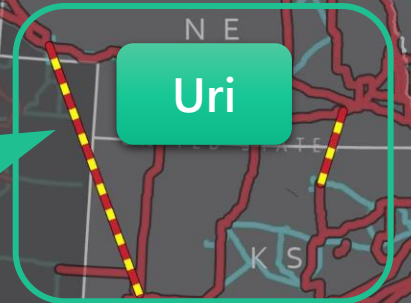
**Sidney to Holcomb & Tobias to Elm Creek 345 kV New Lines**  
**Increase in Transfer Capability From North to South (Year 10)**

Project Description	Transfer Increase (MW)	% Voltage Violations Mitigated in the transfer area
Sidney to Holcomb	650 MW	78%
Sidney to Holcomb + Tobias to Elm Creek	1500 MW	98%

The TWG and ESWG voiced strong support to recommend NTCs for projects addressing Winter Weather needs

The Sidney – Holcomb and Tobias – Elm Creek line are expected to increase transfer capability from SPP North to SPP South resulting in decreased probability of load shed

The Buffalo Flats – Delaware – Monett – Branson 345 kV line brings a new EHV source into Missouri which will support system voltage and transfers from the SPP footprint



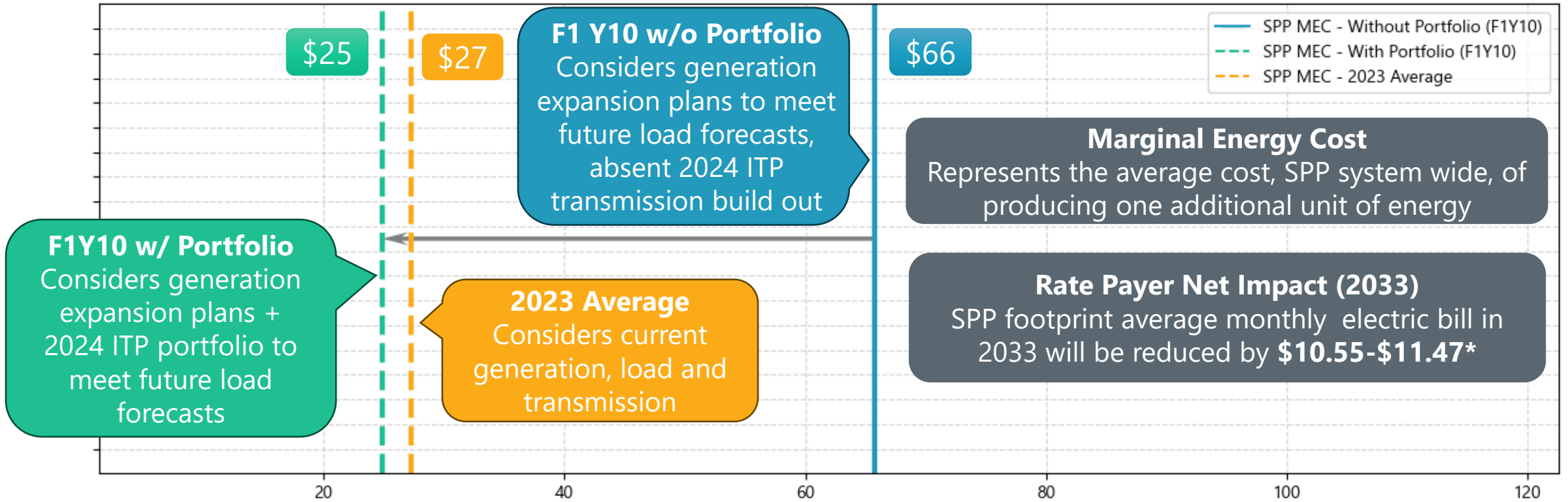
#	2021 WINTER STORM REVIEW RECOMMENDATION
TXP 1	Develop policies...“to <b>more effectively utilize transmission system during severe events</b> ”
TXP 2	Develop transmission planning policies...“to <b>better account for severe events</b> ”

- ▲ Reactive Device
- ▲ Tap
- + Transformer
- Substation
- Terminal Equipment
- New Line 69 kV
- New Line 115 kV
- New Line 138 kV
- New Line 161 kV
- New Line 230 kV
- New Line 345 kV
- New Line 765 kV
- Rebuild Line 69 kV
- Rebuild Line 115 kV
- Rebuild Line 138 kV
- Rebuild Line 161 kV
- Rebuild Line 230 kV
- Rebuild Line 345 kV

# AFFORDABILITY OF THE 2024 ITP PORTFOLIO

The 2024 ITP portfolio maintains customer affordability while addressing reliability, economic, and resiliency needs

SPP Marginal Energy Cost Change (F1Y10)



Portfolio expected to pay for itself within three years

Each state has a B/C ratio >1.0

8.2-8.8 B/C ratio is the highest in SPP history

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

Leading our industry to a brighter future while delivering the best energy value.

## Mission & Vision

# WINTER WEATHER PROJECT STAGING

Staff and stakeholders agree that the portfolio is needed and expected to provide significant benefits to SPP and its customers

TWG and ESGW recommend staging the winter weather projects as soon as possible similar to persistent operational solutions

- Recommend MOPC approve a waiver of the ITP staging process

SPP staff recommends analysis and staging methodology consistent with the existing tariff and ITP Manual

- Includes the recent creation of a year 2 Elliott model to calculate need date

Project	SPP Need Date	TWG/ESWG Need Date
Elm Creek – Tobias 345 kV new line	12/1/2028	Date of NTC Issuance
Holcomb - Sidney 345 kV new line	Date of NTC Issuance	Date of NTC Issuance
Buffalo Flats – Delaware 345 kV new line	12/1/2028	Date of NTC Issuance
Delaware – Monett 345 kV new line	12/1/2025	Date of NTC Issuance
Monett – N. Branson 345 kV new line	12/1/2025	Date of NTC Issuance

# 2025 ITP ASSESSMENT - TIMELINE

The 2025 ITP siting plans are complete, and Market Economic Model benchmarking and pass 2 work is complete. In Q4 staff will finalize the MEM build and conduct the resiliency Market Powerflow Model build and needs assessment.

**MOPC**  
 Final Approval  
 Oct 14  
 Board Final  
 Approval  
 Oct 28

2023

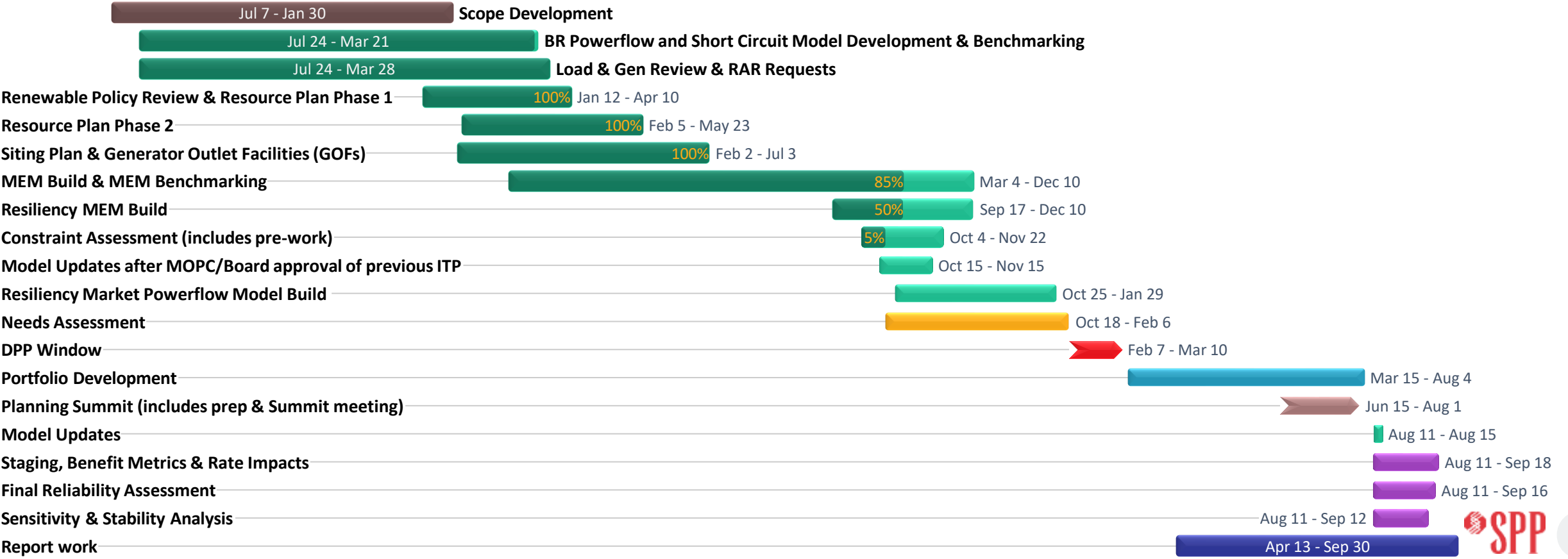
2025



Today

Sep 25  
 ESWG/TWG  
 Final Approval

2025 ITP Assessment Jul 7 - Oct 31



# MISSOURI 2024 ITP PROJECTS

Zone	Project	Type	Need Date*	Project In-Service Date
Evergy/American Electric Power	- <b>NEW</b> : Buffalo Flats – Delaware 345 kV 154.6 miles	Winter Weather	12/1/2028	11/12/2029
American Electric Power/Empire District Electric	- <b>NEW</b> : Delaware – Monett 345 kV 114.5 miles	Winter Weather	12/1/2025	11/12/2029
Empire District Electric	- <b>NEW</b> : Monett – North Branson 345 kV 47.2 miles	Winter Weather	12/1/2025	11/12/2028
Empire District Electric	- <b>REBUILD</b> : Monett – Aurora 161 kV 11.5 miles	Winter Weather/Persistent Operational	Date of NTC Issuance	5/12/2027
Empire District Electric	- <b>REBUILD</b> : Aurora – North Reed Springs 161 kV 23.7 miles	Winter Weather	12/1/2025	11/12/2027
Empire District Electric	- <b>REBUILD</b> : North Reed Springs – South Reed Springs 161 kV 1.5 miles	Winter Weather	12/1/2025	5/12/2027
Empire District Electric	- <b>REBUILD</b> : South Reed Springs – Branson Northwest 161 kV 8.3 miles	Winter Weather	12/1/2025	5/12/2027
Empire District Electric	- <b>REBUILD</b> : Branson Northwest – Branson North 161 kV 0.85 miles	Winter Weather	12/1/2025	5/12/2027
Empire District Electric	- <b>REBUILD</b> : Branson North – Ozark Dam 161 kV 7 miles	Winter Weather	12/1/2025	5/12/2027
Empire District Electric	- <b>VOLTAGE CONVERSION</b> : Ozark Dam – Forsyth North 3.8 miles	Winter Weather	12/1/2025	5/12/2027
Empire District Electric	- <b>VOLTAGE CONVERSION</b> : Forsyth North – Ozark South 24.4 miles	Winter Weather	12/1/2025	5/12/2027

\*Need Date is based upon staff’s recommended staging methodology



# MISSOURI 2024 ITP PROJECTS

Zone	Project	Type	Need Date	Project In-Service Date
AECI	Lamar 161/69 KV Circuit Transformer	Economic	1/1/2036	1/1/2036
Evergy-Greater Missouri Operations	Martin City (east) Martin City (west) 161 kV Terminal Equipment	Economic	1/1/2025	5/12/2026
AECI/ Evergy	Blackberry – Neosho 345 KV Rebuild	Economic	1/1/2036	1/1/2036
Evergy Metro	Nashua 345/161 KV CKT 2 Transformer	Economic/Persistent Operational	Date of NTC of Issuance	11/12/2026

# **SOUTHWEST POWER POOL COMPETITIVE UPGRADE DETERMINATION**

# SPP GOVERNING DOCUMENTS

## Attachment O

- Governs the transmission planning process which is reviewed and approved by stakeholder groups with final Board approval.

## Attachment Y

- Processes for award of a project whether it is competitive or assigned to the incumbent Transmission Owner (TO).

## Business Practice 7660

- Outlines the procedures utilized to determine which Attachment Y Tariff process is used to select a TO for upgrades approved by the SPP Board of Directors.

# WHAT IS A COMPETITIVE UPGRADE?

## TRANSMISSION FACILITIES:



ITP Upgrades, Network Upgrades required pursuant Attachment AQ, high priority upgrades, Generator Retirement Upgrades, or Interregional Projects;



With a nominal operating voltage of greater than 100 kV;



Not a Rebuild of an existing facility;



Do not alter a Transmission Owner's use and control of its existing right of way under relevant laws or regulations;



Located where the selection of a Transmission Owner pursuant to Section III of this Attachment Y does not violate relevant law where the transmission facility is to be built;



Do not require both a Rebuild of existing facilities and new transmission facilities;



Not a Local Transmission Facility



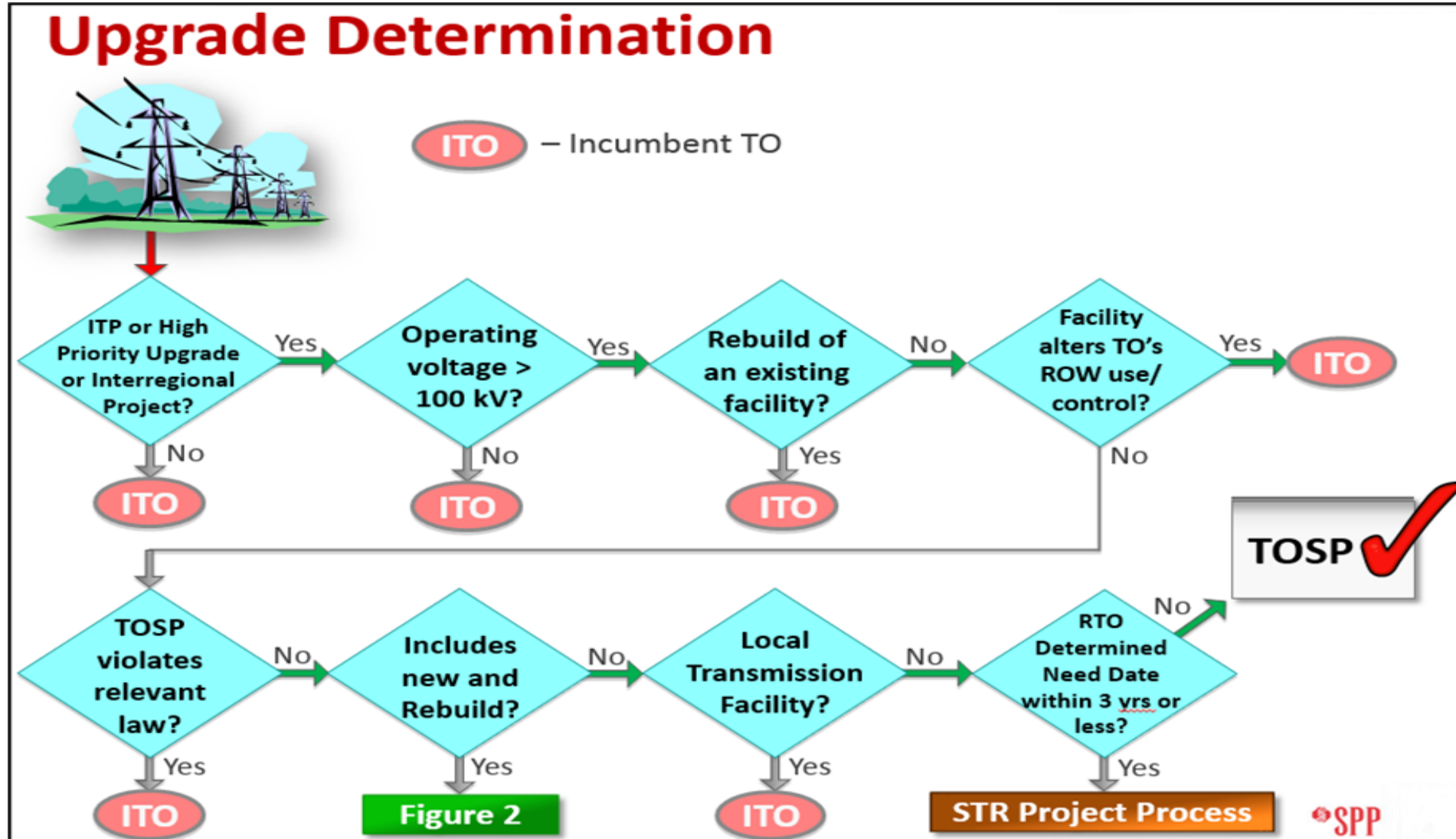
Not short-term reliability projects

# 2024 ITP – PROJECT DETERMINATION

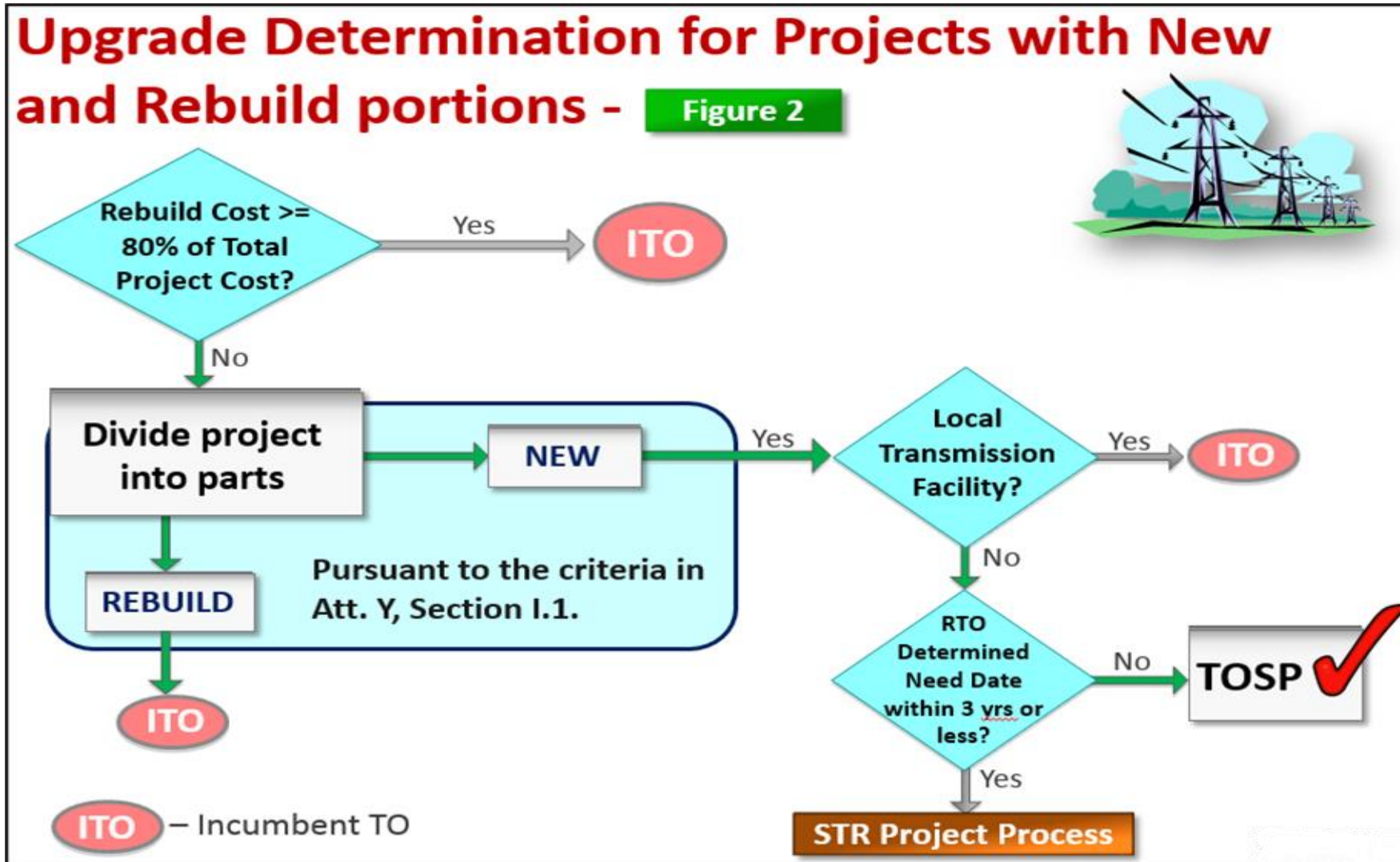
- After a legal analysis of the approved projects
  - 2 projects have been deemed to be competitive with RFPs to be issued within 30 days of the October 29, 2024 Board approval
    - Lynch - Medanos 115 kV (New Mexico)
    - Beckham County - Potter 345 kV (Oklahoma to Texas)
  - 2 potentially competitive projects will be reviewed by the Board in December to determine appropriate staging dates
  - Additional projects will follow the Short-term Reliability Process to determine how NTCs will be awarded

# APPENDIX

# COMPETITIVE UPGRADE DETERMINATION

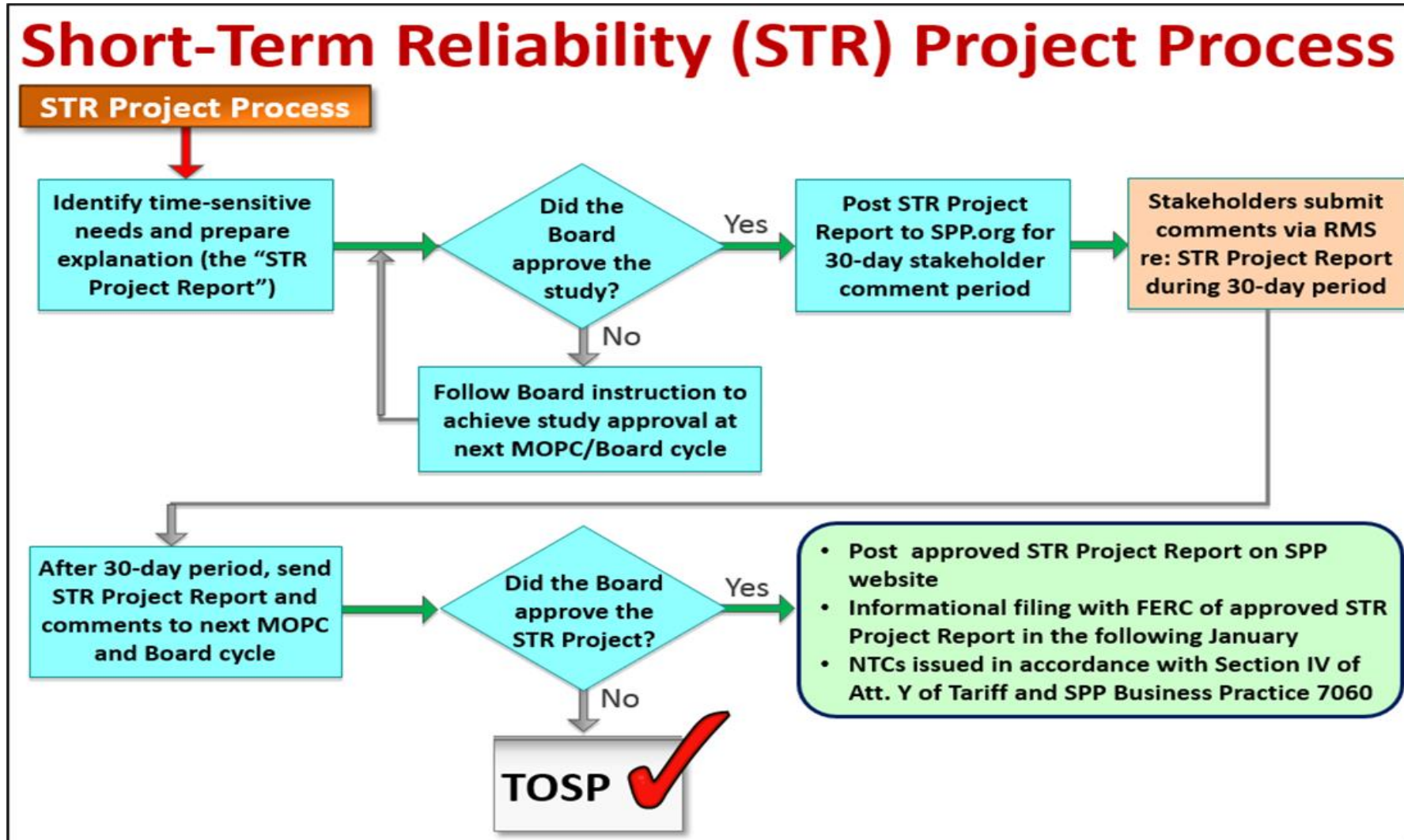


# PROJECTS WITH NEW AND REBUILD PORTIONS





# SHORT-TERM RELIABILITY PROCESS



# 2024 ITP ASSESSMENT

## Q3 POSTINGS AND APPROVALS

Milestone & Posting Description	Posting Date	Stakeholder Review Dates
2024 ITP Draft Project List	7/15/2024	7/15/2024 – 7/29/2024
2024 ITP Final Project List and Consolidated Portfolio IDV Files	8/2/2024	8/2/2024 – 8/15/2024
Consolidated Portfolio & Staging Results	8/21/2024	<i>Approved 8/28/2024</i>
2024 ITP Report – Preliminary Draft for Review	8/21/2024	8/21/2024 – 8/28/2024
2024 ITP Final Project List	9/3/2024	9/3/2024 – 9/17/2024
2024 ITP Report and NTC Recommendations	9/18/2024	9/18/2024 – 9/25/2024
2024 ITP Report and NTC Recommendations – Updated	9/26/2024	9/26/2024 – 10/3/2024

# 2026 ITP ASSESSMENT AND CPP TRANSITION STUDY

## Q3 POSTINGS AND APPROVALS

Milestone & Posting Description	Posting Date	Stakeholder Review Dates
Base Reliability Model Pass 1 – Powerflow	7/26/2024	7/26/2024 – 8/2/2024
Base Reliability Model Pass 1 – Short Circuit	7/26/2024	7/26/2024 – 8/2/2024
Base Reliability Model Pass 2 – Powerflow	9/13/2024	9/13/2024 – 10/4/2024
Scoping – Futures Information	9/18/2024	9/18/2024 – 9/25/2024
Load and Generation Review Pass 1	9/20/2024	9/20/2024 – 9/27/2024
RAR and Waiver Request	9/27/2024	9/27/2024 – 10/11/2024

# ACTIVE ITP ASSESSMENTS – UPCOMING DATES

## Q4 POSTINGS

### 2024 ITP Assessment

- **October**
  - 4 – 2024 ITP Report and NTC Recommendations (MOPC)
  - 18 – 2024 ITP Report and NTC Recommendations (BOD)
- **November**
  - N/A
- **December**
  - N/A

### 2025 ITP Assessment

- **October**
  - 1 – Resiliency Market Economic Model
  - 3 – Market Economic Model (MEM) – Pass 2 Updated
  - 24 – Constraint Assessment – Pass 1
  - 31 – Proposed Final ITP BR PF Models
- **November**
  - 7 – Constraint Assessment Pass 1 with Feedback
  - 27 – MEM Final
- **December**
  - 11 – Resiliency Market Powerflow Model – Pass 1

### 2026 ITP Assessment

- **October**
  - 22 – Scope Document (TWG)
  - 24 – Scope Document (ESWG)
- **November**
  - 1 – Base Reliability Powerflow Model – Pass 3
- **December**
  - 3 – Final Scope Document (TWG)
  - 5 – Final Scope Document (ESWG)
  - 20 – Base Reliability Powerflow Model – Pass 4
  - 20 – Base Reliability Short Circuit Model – Pass 2