



MISSOURI PSC PUBLIC MEETING RTO STATUS UPDATE

SPP SEASONAL PREPAREDNESS PLAN

FEBRUARY 19, 2026

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



SouthwestPowerPool



SPPorg

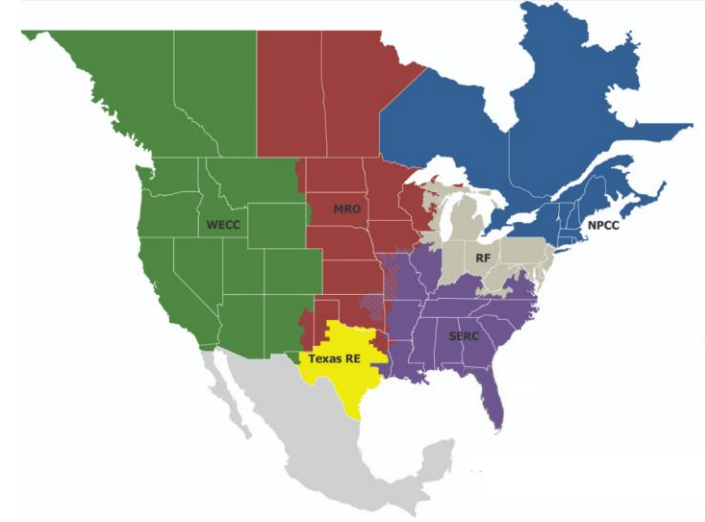


southwest-power-pool

OVERVIEW OF SPP ENERGY EMERGENCY OPERATIONS

NERC ENERGY EMERGENCY ALERTS (EEA): WHAT THEY ARE AND HOW THEY PROTECT RELIABILITY

- Industry-standard Reliability Scale
- Monitor grid conditions in real time
- Signals Tightening Supply Conditions
- Supports Coordination of assistance between regions
- Prevents uncontrolled outages
- Provides transparency to regulators and stakeholders



EEAs are triggered when generation and reserve margins fall to levels that may be inadequate to meet system demand.



CURRENT GRID CONDITIONS

The entire SPP BA footprint is currently operating under normal grid conditions

Updated 1/26/2026 at 12:00 p.m. CT

While SPP is returning to normal operating conditions (as of 12:00 p.m. CT), we are extending the Weather Advisory for the entire SPP Balancing Authority (BA) area through an anticipated end time of Wednesday, January 28, at 12:00 p.m. CT. Weather Advisories are considered normal operating conditions and do not require the public to conserve energy or take any action, but is being extended to continue maintaining awareness of the potential for weather-related impacts on system resources. The resource and conservative operations advisories that were in effect throughout Winter Storm Fern have expired as of 12:00 p.m. CT (today – 1/26/2026) as originally scheduled.

MARKETS & OPERATIONS

[Advancing Technology](#) >[Current Grid Conditions](#) ✓
• 2021 Winter Storm Review
• December 2022 Winter Storm Review[SPP Portal](#) >[Market Monitoring](#) >[Net Benefits Test](#)[Operating Reliability](#)[Outage Coordination](#)[Revision Requests](#)[TCR Markets](#)

[SPP.ORG/GRID-CONDITIONS](https://www.spp.org/grid-conditions)

Grid Notices

Real-time updates

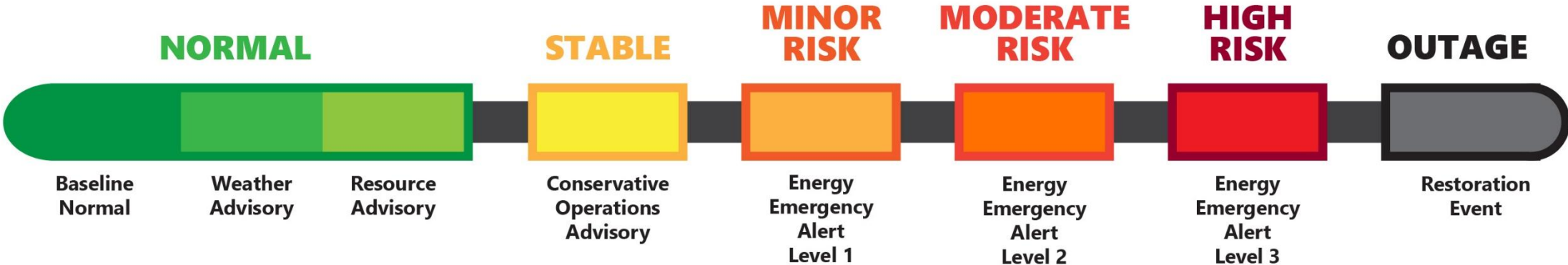
Emergency Communications User Forum

Meeting
announcements
and procedural info

News

General corporate
news including
emergency notices

SOUTHWEST POWER POOL GRID CONDITIONS



EMERGENCY COMMUNICATIONS MATRIX

Emergency Level	Triggering Event	Operations	Stakeholder	Regulatory	Public/Media
Normal Operations	None	Standard procedures	None	None	None
Weather Advisory (*Normal Operations)	Extreme weather expected in SPP Balancing Authority (BA) area.	SPP posts to OASIS and RCIS, and notifies TOP/GOP operators	SPP sends Grid Notice exploder and publishes an update via the SPP Go App at 9:00 a.m. and 4:00 p.m. as needed	Include in Exploder distribution list message for awareness/Available for questions as needed	SPP updates SPP.org Current Grid Conditions page in real time/as quickly as possible.
Resource Advisory (*Normal Operations)	Severe weather, significant outages, wind and/or load forecast uncertainty expected in SPP Balancing Authority (BA) area.	Same as above	Same as above	None	Same as above
Conservative Operations Advisory (*Stable Operations)	Based on weather, operational, cyber or other events, SPP may postpone/cancel outages, commit long-lead resources and take other actions declared necessary to operate more conservatively	SPP ops notifies comms, posts to OASIS and RCIS, and notifies TOPs, GOPs and Ops managers and market participants of need for conservative operations.	SPP sends Grid Notice exploder and publishes an update via the SPP Go App in real time/as quickly as possible.	SPP notifies members of its Regional State Committee and other Regulatory/ Government Affairs contacts	SPP updates Grid Conditions page, publishes banner to SPP.org homepage and issues notice via social media in real time/as quickly as possible.

Bold text indicates incremental activities that differ from prior levels.

EMERGENCY COMMUNICATIONS MATRIX



Emergency Level	Triggering Event	Operations	Stakeholder	Regulatory	Public/Media
Energy Emergency Alert Level 1	All available resources are committed to meet obligations, and SPP is at risk of not meeting required operating reserves.	SPP posts to OASIS and RCIS, and notifies TOP/GOP operators.	<ul style="list-style-type: none"> • Real time: SPP sends Grid Notice exploder and sends notice via App. • SPP directly notifies BOD/MC, MOPC, elected officials, member comms/gov't affairs reps, et al. • SPP will schedule calls as needed and w/appropriate frequency 	Real time: SPP notifies RSC and coordinates periodic briefings with state commissioners.	Real time: SPP updates Current Grid Conditions page, publishes banner to SPP.org homepage, issues notice via social media, and distributes a press release.




An EEA Level 1 is triggered when our operating reserves become at risk. At this level, we still have enough generation to serve demand and maintain reserves, but we've committed all available generation to meet those obligations.

Bold text indicates incremental activities that differ from prior levels.

EMERGENCY COMMUNICATIONS MATRIX


Emergency Level	Triggering Event	Operations	Stakeholder	Regulatory	Public/Media
EEA Level 2	SPP can no longer provide expected energy requirements, OR SPP foresees/implements procedures up to but excluding service interruptions to maintain regional reliability.	Same as EEA 1.	Same as EEA 1.	Same as EEA 1.	Same as EEA 1.

 EEA Level 2 is triggered when we've committed all available generation, can maintain operating reserves, but have begun to use demand-side management (curtailing interruptible loads) to keep region-wide electric supply and demand in balance. SPP is also required to facilitate a public appeal for voluntary conservation at this level, and we'd coordinate with the transmission operators among our members to do so.

Bold text indicates incremental activities that differ from prior levels.


EMERGENCY COMMUNICATIONS MATRIX

Emergency Level	Triggering Event	Operations	Stakeholder	Regulatory	Public/Media
Public Appeal for Conservation	Conservation appeal is required w/issuance of an EEA 2. If SPP determines earlier conservation may mitigate operational risk, it may be requested earlier.	SPP coordinates requests/directions of conservation appeals through its communications dept. If appeal is requested apart from an EEA 2, Ops staff will notify TOPs, GOPs, MP and other stakeholders.	Real time: SPP coordinates with TOP members to request or direct conservation appeal. SPP will instruct member reps to confirm receipt of instructions and indicate time they completed the appeal. As above, SPP also directly notifies BOD/MC, MOPC, elected officials, member comms/gov't affairs reps, et al., and will coordinate calls as needed.	Same as EEA1.	Same as EEA1.

 In the event of a Public Appeal for Conservation of Energy, SPP uses a third-party emergency communications platform (Xmatters) to alert communications contacts at all load-serving entities of the situation's urgency and directs them to advise their customers of the need for public conservation efforts to mitigate the need for load shed.

EMERGENCY COMMUNICATIONS MATRIX

Emergency Level	Triggering Event	Operations	Stakeholder	Regulatory	Public/Media
EEA Level 3	SPP is using operating reserves, carrying reserves below the required minimum and has initiated assistance through its Reserve Sharing Group. SPP foresees or has implemented service interruptions.	Same as EEA1 and EEA2.	Same as EEA1 and EEA2.	Same as EEA1 and EEA2.	Same as EEA1 and EEA2.

 EEA Level 3 is triggered when SPP has used some or all its operating reserves to serve load, and as a last resort we may have to direct load-shed or controlled service interruptions to prevent cascading outages. As above, we would coordinate load-shed with transmission operators and keep the rest of this group apprised of changing conditions.

Bold text indicates incremental activities that differ from prior levels.

Wholesale Market Impacts

- Higher LMPs during tight conditions
- Increased scarcity pricing events
- Increased uplift
- Greater price volatility

Ratepayer Impacts

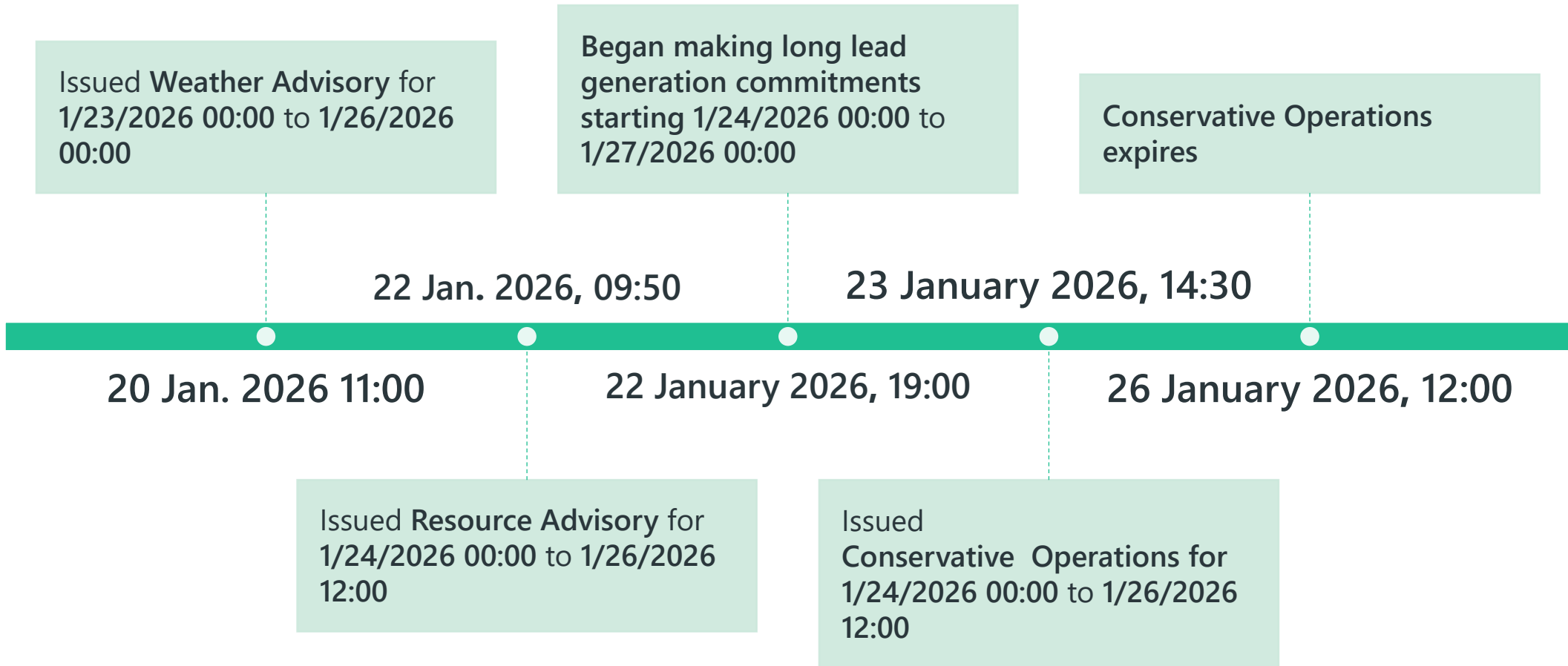
- Higher retail energy costs during emergencies
- Potential long-term investment cost increases
- Increased cost recovery through fuel clauses or market cost riders

When capacity that physically exists is not offered into the market under normal conditions, prices can rise faster and emergency events can occur sooner — increasing both short-term market costs and potentially long-term reliability investment costs.

SPP SYSTEM RESILIENCE UNDER PEAK WINTER DEMAND

**WINTER STORM FERN RECAP
JANUARY 23-27, 2026**

JANUARY '26 ADVISORIES/ALERTS



1/24/2026 - 1/26/2026

- Instantaneous load peak ~ 45,236 MW on 1/24@ 18:34
- Net load peak ~ 36,527 MW on 1/25@ 18:30
- Wind output ~ 7,197 MW on 1/25@ 18:30

Timeline

- Resource advisory – issued on 1/22 09:50 for 1/24 00:00 through 1/26 12:00
- Conservative Operations – issued on 1/23 14:30 for 1/24 00:00 through 1/26 12:00

Previous winter peaks

- 2025 – February 20, 2025 – instantaneous 48,141 MW → Net Load 43,266 MW
- 2024 – January 16, 2024 – instantaneous 46,711 MW → Net Load 37,761 MW
- 2022 – December 22, 2022 – instantaneous 47,155 MW → Net Load 29,248 MW
- 2021 – January 21, 2022 – instantaneous 41,328 MW → Net Load 24,666 MW

Grid Remained Reliable

- No Energy Emergency Alerts (EEAs) issued
- No region-wide rolling outages
- Power system remained stable during extreme cold

High Winter Demand Successfully Managed

- Peak demand reached ~45,232 MW (*January 26*)
- Among the highest winter peaks in SPP history
- Sufficient resources available to meet customer needs

Resource Performance

- Wind generation contributed meaningfully (output above forecasted accredited levels)
- Despite some generator outages, overall supply was adequate
- SPP was able to export up to ~3,500 MW to support neighboring regions

SPP WINTER STORM FERN SYSTEM PERFORMANCE

(DECEMBER 1- FEBRUARY 25/26)



- **February 20, 2025- historical winter peak was 48,142 MW**
- **January 26, 2026- highest winter peak ~46,000 MW**
- **2 Resource Advisories (3 days)**
 - December 1
 - January 24-26
- **1 Conservative Operation Advisories (2 days)**
 - January 24-26
- **0 EEA Events**

SPP Grid Demonstrated:

- Regional coordination enhances reliability during extreme weather events
- Proactive operational planning strengthens grid resilience before peak stress occurs
- Structured advisory and escalation tools support disciplined, timely system response
- Strong performance under elevated winter demand conditions

SPP 2026 SEASONAL PREPAREDNESS PLAN

BALANCING ELECTRIC SUPPLY AND DEMAND

SUPPLY/GENERATION

- **106,030 MW** Nameplate Capacity *(as of August 2025)*
- **65,639 MW** Accredited Capacity *(as of Summer 2025)*

DEMAND/LOAD

- **56,184 MW** all-time coincident peak load (8/21/23)
- **48,142 MW** Winter peak (2/20/25)

- **Summer 2025 peak of 54,644 GW (July 29), compared to all-time peak of 56,184 GW (Aug. 21, 2023)**
- **7 Resource Advisories (12 days)**
 - 2024 = 11 Resource Advisories (19 days)
- **3 Conservative Operations Advisories (3 days)**
 - 2024 = 3 Conservative Ops Advisories (5 days)
- **0 EEA Events**
 - 2024 = 1 EEA

2026 Summer Preparedness Efforts Underway



Risk-Focused Approach

Summer preparedness efforts are underway, focused on identifying and mitigating potential risks to reliable operations.



Generation Assessment (GAP)

GAP remains a key tool for identifying capacity risks by evaluating generation maintenance schedules across the footprint.



Transmission Studies

Studies using anticipated system conditions and topologies are underway to identify and address potential congestion.



Stakeholder Coordination

SPP's Summer Preparedness Report and spring members workshop will review findings and share mitigation efforts.

NERC LONG-TERM RELIABILITY ASSESSMENT JANUARY 2026

NERC LTRA: SPP RISK ASSESSMENT

Long-Term Reliability Assessment

January 2026



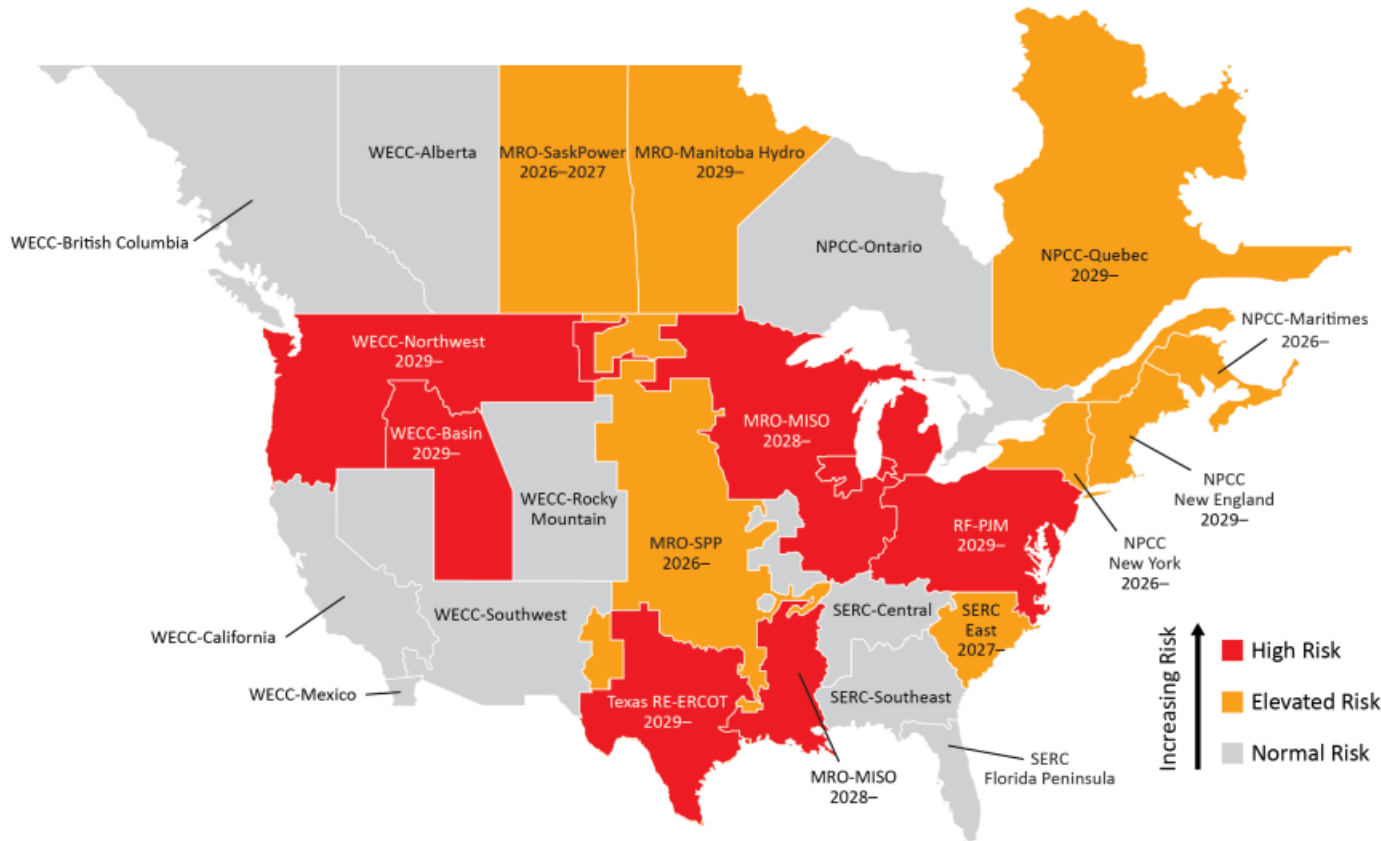


Figure 1: Risk Area Summary 2026–2030

Shows highest risk classification that occurs in the first 5 years and states initial year of occurrence

SPP Capacity & Energy Risk Assessment Area: Demand forecasts outpace resource additions, leading to falling reserve margins. Scenarios with low wind and high generator forced outages identify energy shortfall risks. SPP’s Expedited Resource Adequacy Study is attracting additional resources.

Elevated-Risk Areas

- Are identified in the LTRA when unserved energy and load loss metrics are below High-Risk criteria but are not negligible.
- Meet resource adequacy criteria, however:
 - Planned resources are likely to result in energy shortfalls during more extreme weather conditions.
 - Extreme conditions can include temperatures that result in above-normal demand levels, low resource output or availability, fuel supply disruptions, and limitations of normal electricity transfers.

Long-Term Reliability Assessment Notables

Planning Reserve Margins

- Reserve margins fall below requirement by 2029
- Approved PRMs: 16%/36% (2026); 17%/38% (2029)

Retirements Slowing

- PRM increases delaying thermal retirements
- Coal-to-gas conversions underway

Resource Mix

- 8 GW gas, 2.2 GW solar, 1.8 GW battery in Tier 2 queue
- Expedited RA Study accelerating interconnection

Load Forecasting

- 10-year peak: 65,902 MW (16% above 2023 record)
- 50/50 forecasts trending below actual BA peaks
- New Large Load Requests

Load Shed Risk - NERC

- 2025 ProbA: zero unserved energy through 2029
- No observed load-loss events in base case



CONTACT

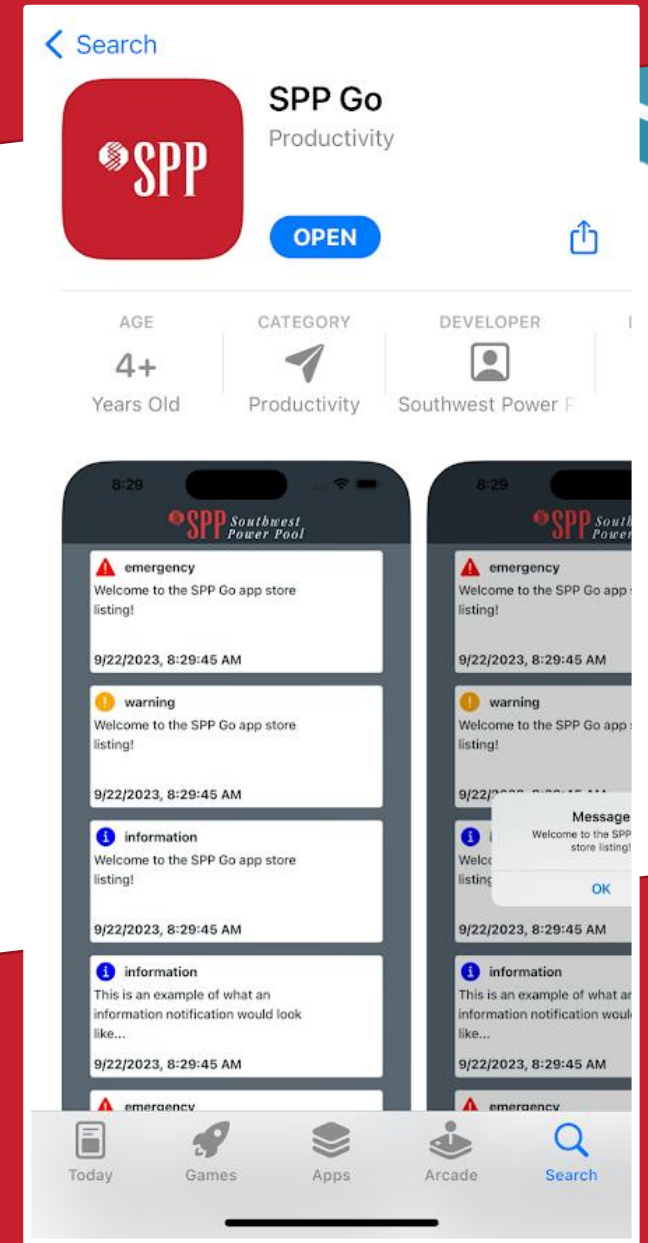
YASSER BAHBAZ
SR. DIRECTOR, OPERATIONS SUPPORT

MONSHERRA BLANK
MANAGER, REGULATORY AFFAIRS

APPENDIX

SPP GO MOBILE APP

Download the SPP Go app in the Apple App Store and Google Play Store and receive notifications about energy emergencies via push notification.



SOCIAL MEDIA



X (formerly Twitter): SPPorg




Facebook: SouthwestPowerPool



LinkedIn: southwest-power-pool




Instagram: southwestpowerpool



SPP HAS DECLARED A

CONSERVATIVE OPERATIONS ADVISORY



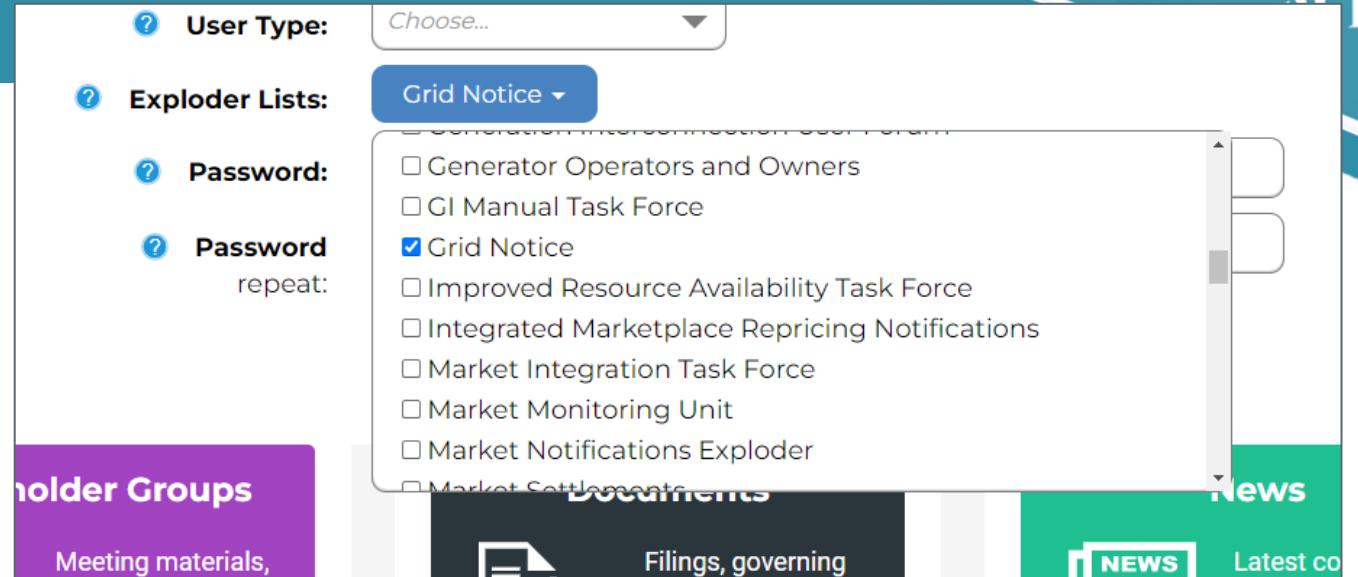
Normal Operations	Weather Advisory	Resource Advisory	Conservative Operations Advisory	Energy Emergency Alert Level 1	Energy Emergency Alert Level 2	Energy Emergency Alert Level 3	Restoration Event
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- To sign up :

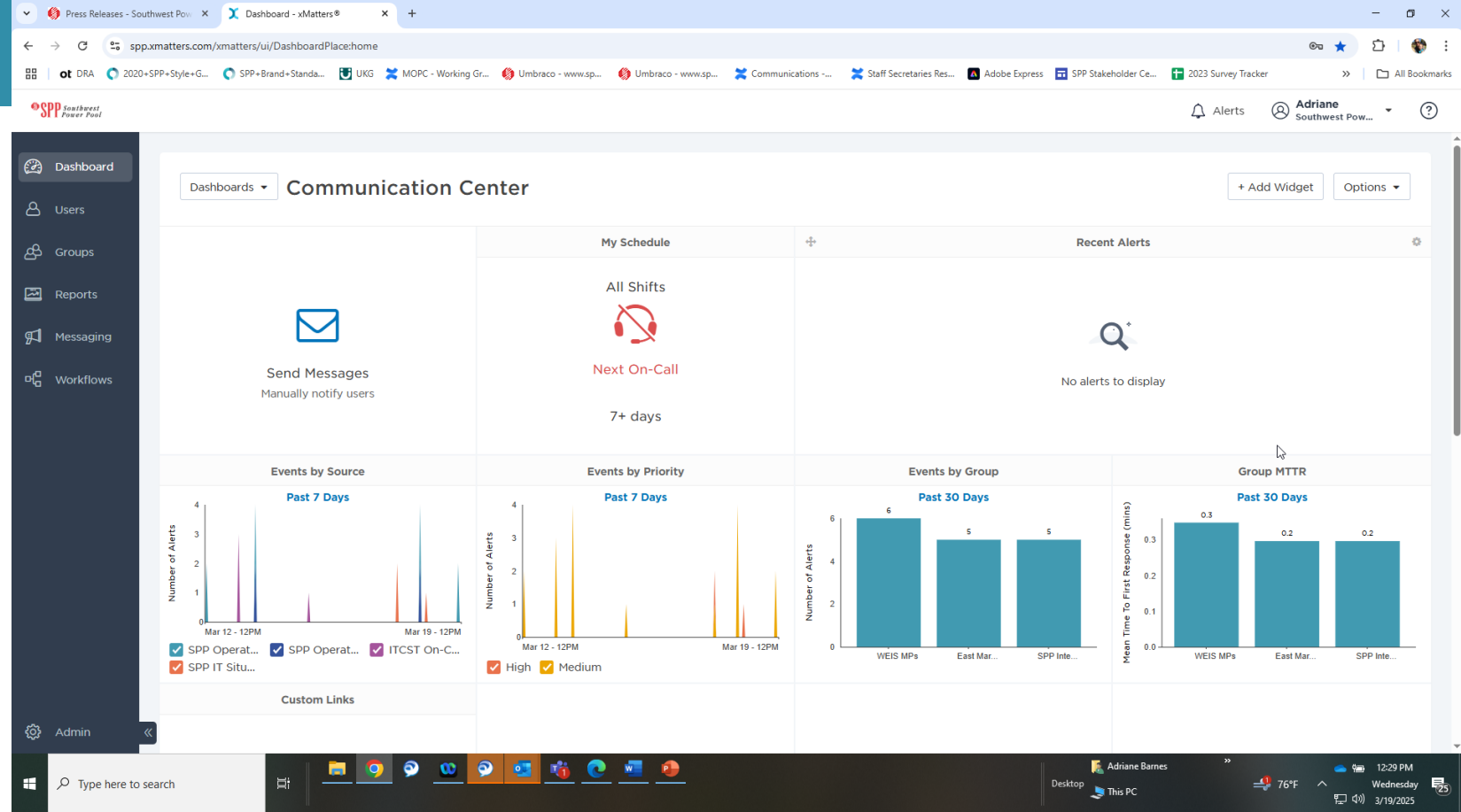
- [Log into SPP.org](https://www.spp.org) and click "[Hi, \[your name\]](#)" in top right of screen to update account preferences. ([Create an account](#) if you don't have one.)

- In list of available exploders, check the box next to those you'd like to receive.

- Click "Submit" at bottom of form to save changes.



- Recipient lists are based on member contact info.
- A response from your organization is required.
- Testing takes place twice per year.



SPP COMMUNICATIONS

Please reach out with questions or to request training or additional information for your team:

Derek Wingfield (dwingfield@spp.org)

Adriane Barnes (abarnes@spp.org)

Meghan Sever (msever@spp.org)

WINTER SEASON RESOURCE ADEQUACY REQUIREMENT

Applied to 2025/2026 Winter Season

- Includes a Deficiency Payment for any capacity shortfall to Winter Season

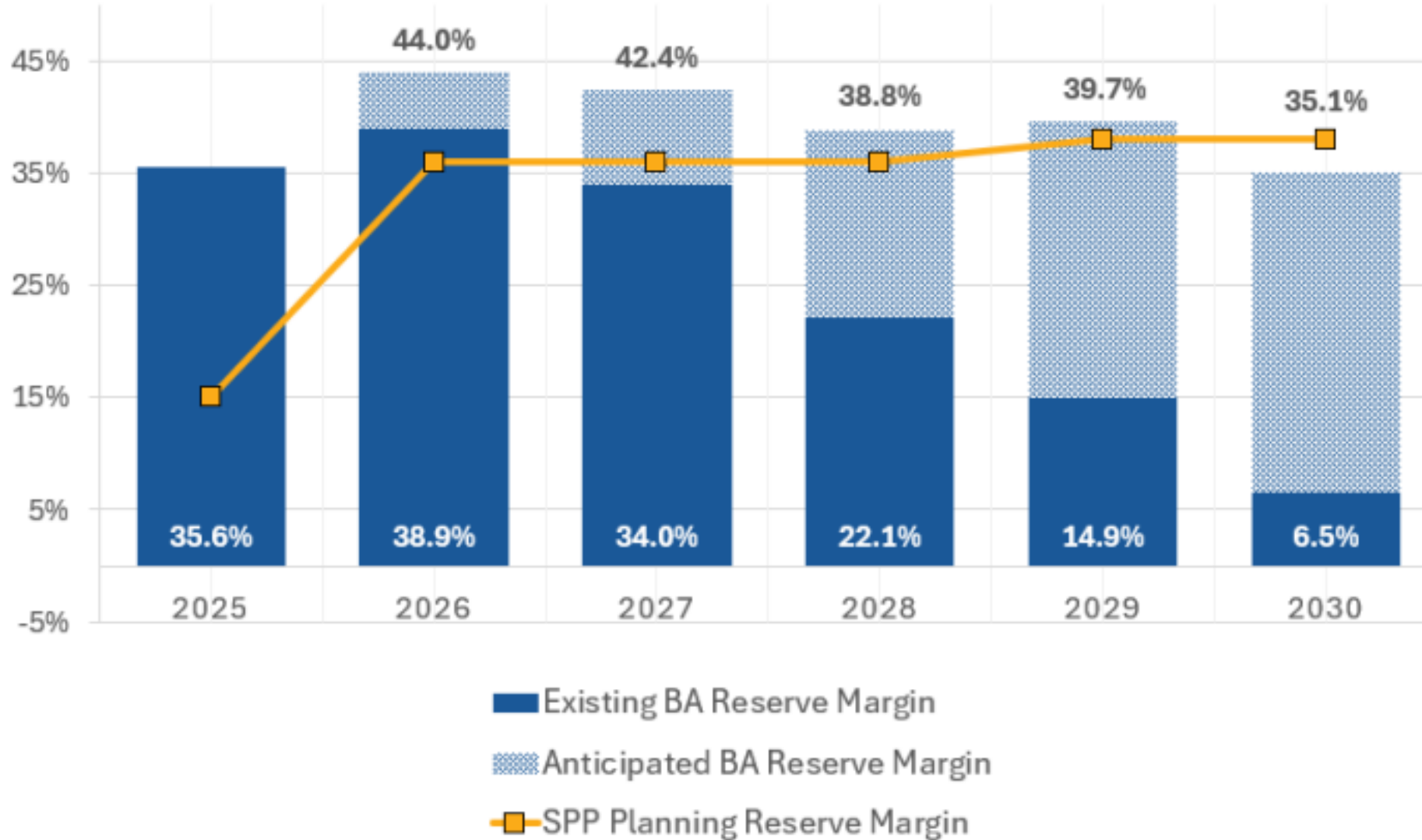
$RAR = LRE \text{ Winter Season Net Peak Demand} + (\text{Net Peak Demand} \times PRM)$

- The PRM is currently 15% for both the Summer and Winter Seasons
- Starting with the 2026/27 Winter Season the Winter PRM will be 36%

Requires the same data submittal, validation process, and studies that are in place today for the Summer Season

- Initial submissions are due by August 15th and are finalized by November 15th

SPP WINTER SEASON OUTLOOK



Reliability Risks Are Increasing

- 13 of 23 assessment areas face resource adequacy challenges over the next 10 yrs
- Planned resource & transmission additions are not keeping pace

Demand growth is accelerating

- Data centers
- Large Industrial Load
- Electrification trends

Changing Resource Mix

- Majority of new resources over the next 5 years:
 - Battery storage
 - Solar Photovoltaic (PV)

Emerging Structural Challenges

- Continued retirement of fossil-fired generation
- Reduced on-site fuel availability
- Diminished ability to respond to sudden demand spikes
- Increased winter supply shortfall risk

Planning Under Uncertainty

- Growing resource queues
- Rapid grid transformation
- Shifting policy and economic drivers
- Greater forecasting uncertainty

Accelerate Resource Development & Manage Retirements

- Expedite new generation and transmission additions
- Improve early visibility into generator retirement plans
- Maintain flexibility to extend needed generators for reliability
- Ensure replacement infrastructure is in service before retirements occur

Address Large-Load Growth Risks

- Proactively manage reliability impacts from data centers, AI, crypto, and hydrogen facilities
- Leverage load flexibility during grid stress
- Support NERC's Large Loads Action Plan
- Develop consistent ISO/RTO requirements for emerging large loads