

**December 3, 2025**

## Supply Analysis Working Group (SAWG) December 2025 Update to WMS

Kevin Hanson (Invenergy) Chair  
Greg Lackey (CPS Energy) Co-Vice Chair  
Pete Warnken (ERCOT) Co-Vice Chair

# Overview

SAWG discussed three issues at the meeting:

- 1) Zonal Reliability and Supply Deliverability Study Results (presentation can be found [here](#))
  - a) Zonal Reliability Study with SERVVM and TARA
  - b) Supply Deliverability Study
- 2) 2026 Reliability Assessment Activity Update (presentation can be found [here](#))
  - a) Current SERVVM Project Schedule and Task Status
  - b) Reliability Assessment Assumption Status
  - c) Modeling Assumptions Filing Format
- 3) December Capacity, Demand and Reserves Report Preparation Update (present:
  - a) Preliminary Release Schedule
  - b) Demand-Resource Scenarios under Consideration

- Next SAWG Meeting will be in January (date to be determined still)

Year Month	2025												2026
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan
Develop Thermal ELCC Methodology											K	F	
Zonal Reliability Study	K	M							D	F			
Event Duration Risk Assessment						K	M	F					
January Reliability Risk Analysis						K	M	F					
Supply Deliverability Analysis									K	M	D	F	
Reliability Standard Assessment Prototyping									K	M	D	F	
NERC Probabilistic Assessment							K	M	D	F			

K

Project Kick-Off

M

Model Setup Complete

D

Draft Deliverable

F

Final Deliverable

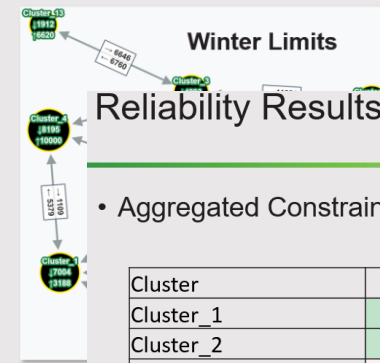
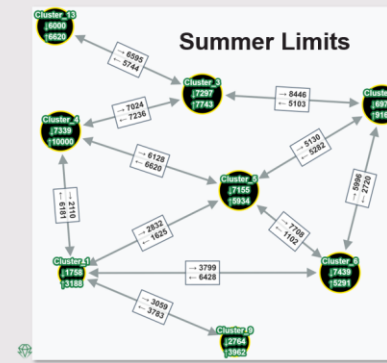
Ongoing

# Zonal Reliability Study with SERVVM and TARA

- Performed clustering analysis using PowerGEM's TARA model to identify cluster with similar effects on critical flowgates
  - Started with 13 clusters but ended with 8 cluster zones
- Performed transfer limit analysis using TARA to identify zone-to-zone constraints and simultaneous import and export constraints
- Ran SERVVM simulations to analyze the change in reliability for 2026 when moving from single zone representation of ERCOT to the clustered representation

## Transfer Limit Results

- Path Limits are shown in rectangles on path connectors
- Aggregate Limits are shown in the Cluster circles

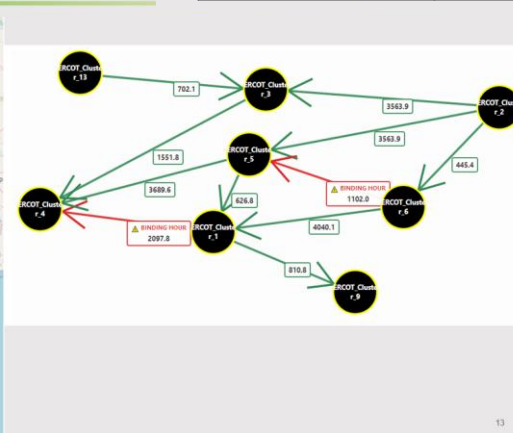
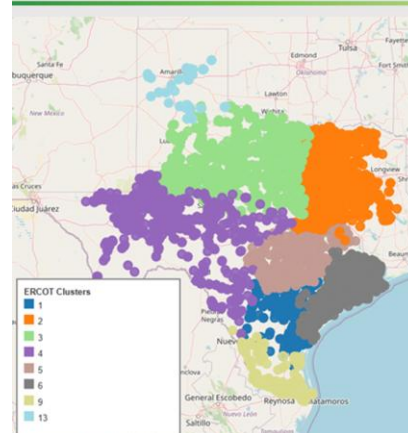


## Reliability Results

- Aggregated Constraint Impact by Season

Cluster	Winter	Summer
Cluster_1	0.335	0.302
Cluster_2	0.347	0.000
Cluster_3	0.856	0.325
Cluster_4	3.068	0.692
Cluster_5	0.528	0.200
Cluster_6	0.122	0.000
Cluster_9	0.754	1.442
Cluster_13	0.879	0.581
Clusters_AGG	3.583	2.379

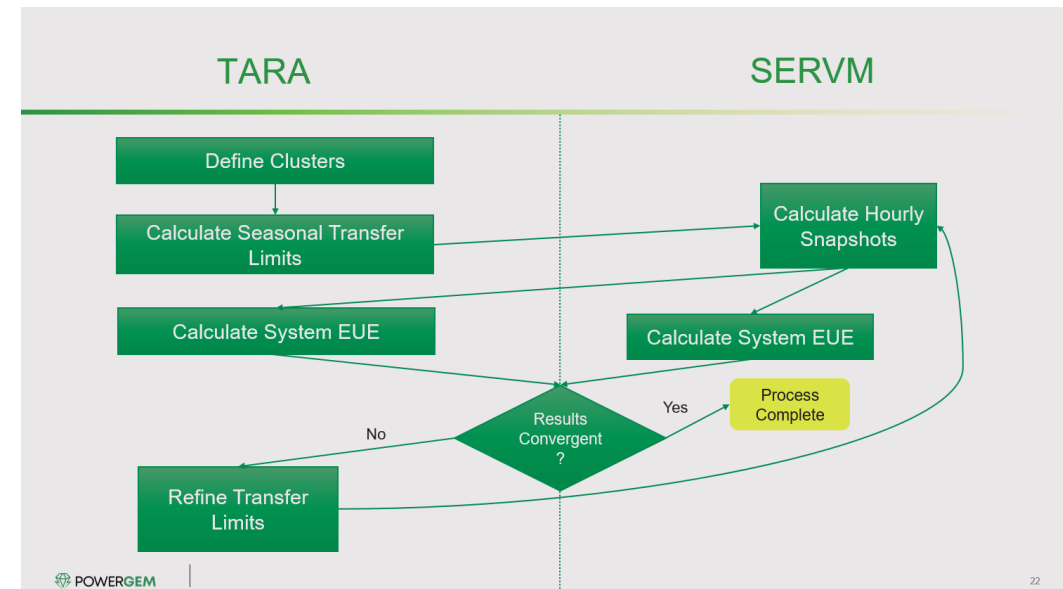
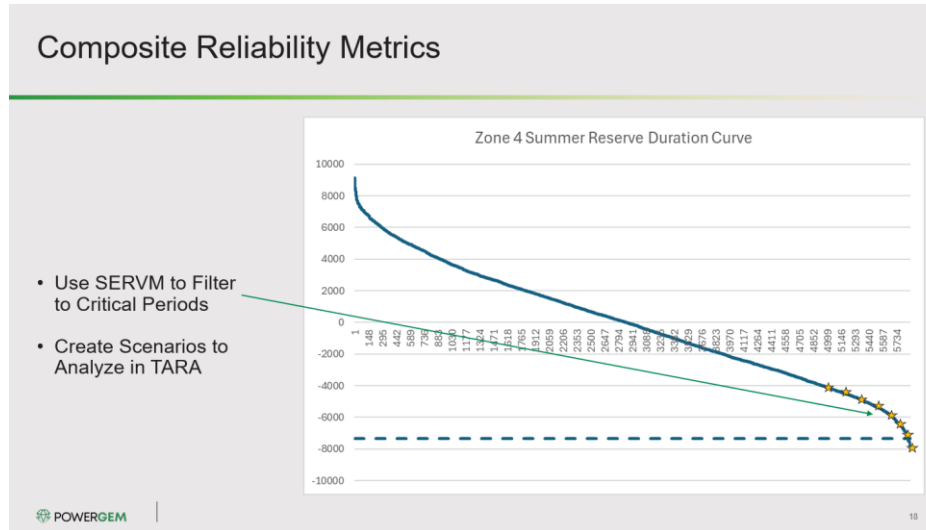
## Zone 4 Deep Dive



Zone 4 (Far West) was found to be the most binding

# Supply Deliverability Study

- Recall limitations of transportation model and dependence of transfer limits on actual dispatch
- Would like to evaluate SERVVM dispatch scenarios in TARA to obtain actual impact of a given scenario on transmission
- Use SERVVM to Filter to Critical Periods
- SERVVM exports scenario files. TARA launches with scenario inputs and evaluates each scenario.
  - Currently working on adding functionality to SERVVM and TARA for this feature



# December CDR

- **SAWG CDR pre-release distribution on Tuesday 12/9/25**
  - Looking for proof reading help rather than content suggestions
  - Distribution will be via the SAWG Listserv
- **SAWG review comments due Wednesday 12/17/2025**
  - **CDR posted on Sunday 12/21/2025**

## Demand–Resource Scenarios under Consideration

- ERCOT is considering including the following four scenarios:

No.	Scenario Name	Assumptions
1	Base Case	Protocol-prescribed assumptions
2	Base Case with SB6 Large Load curtailment impact	Base Case Scenario #1 along with the following Senate Bill 6 Large Load curtailment impacts during system emergencies (Curtailment reduction percentages by Large Load type): <ul style="list-style-type: none"><li>• Data Centers -100% curtailable</li><li>• Industrial - 85% curtailable</li><li>• Hydrogen - 85% curtailable</li><li>• Oil &amp; Gas - non-curtailable</li></ul>
3	High Reserve Margin Bookend	Scenario #2 with the following assumptions: <ul style="list-style-type: none"><li>• Include all TEF projects in the interconnection queue (~8.8 GW) regardless of CDR eligibility criteria</li><li>• Reduction of TSP Officer Letter and Contracted Loads (e.g., 25%)</li></ul>
4	Low Reserve Margin Bookend	Scenario #2 with the following assumptions: <ul style="list-style-type: none"><li>• One-year TEF project delays, except for those meeting Planning Guide Sec. 6.9(1) conditions or are "brownfield" sites</li><li>• TSP-provided Large Load forecast</li></ul>



# Questions?