



**Reliability & Security
Oversight Update**

WECC

**May 21, 2026
2–3 p.m. MDT**

Reliability & Security Oversight Update

Mailee Cook

Training and Outreach Specialist

**Electric Reliability
& Security for the West**

May 21, 2026



Reliability in the West

WECC

**Reliability in the West Discussion Series:
WECC's Risk Management Program**
Wednesday, June 3, 2026
11 a.m.—noon MDT



BOARD AND ASSOCIATED MEETINGS

June 9–10





**Reliability
Fundamentals**

WECC

**June 23–25, 2026
Salt Lake City, Utah**

**REGISTER
NOW**



**Power Systems
Security Conference**

WECC

Salt Lake City, Utah | August 11–13, 2026



Grid Fundamentals

WECC

**August 18–19, 2026
Salt Lake City, Utah**



Meeting Disclosures

- Participants are reminded of their obligations under the WECC Antitrust Policy and the NERC Antitrust Compliance Guidelines.
- [Read](#) the full Antitrust Statement on wecc.org.
- This meeting is public – confidential or proprietary information should not be discussed in open session.
- This meeting is being recorded and will be posted publicly. By participating, you give your consent for your name, voice, image, and likeness to be included in the recording.
- WECC strives to ensure the information presented today is accurate and reflects the views of WECC; however, all interpretations and positions are subject to change.
- If you have any questions, please contact WECC's legal counsel.



Agenda

- **NERC and WECC Happenings** — Fahad Ansari, WECC
- **WECC Standards Update** — Mailee Cook, WECC
- **Registration Updates** — Abby Fellingner, WECC
- **Self-Certification Update** — Ben Aldous, WECC
- **Oversight Trends Update** — Ben Aldous, WECC
- **Loads and Resources Data Request** — Ashton Davis, WECC

NERC and WECC Happenings

Fahad Ansari

Senior Technical Advisor, Oversight Planning

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NERC

- Reliability Standard Audit Worksheets
 - PRC-024-4, PRC-029-1, PRC-030-1, and TOP 003-7
- ERO Enterprise Compliance Monitoring and Enforcement [Manual](#) v9
- Wildfire Ignition Risk [Report](#)
- NERC Issues Level 3 [Alert](#)
- [Reliability Guideline](#): Risk Mitigation for Emerging Large Loads
- Currently Compliant [Podcast](#)
 - Ep.10 Coordinated Oversight Program
- ERO Enterprise Implementation Guidance
 - PRC-029-1 Inverter-Based Resource Ride-Through Design Evaluation Implementation Guidance
- NERC's 2026 Summer Reliability [Assessment](#)



WECC

- Reliability in the West Discussion [Series](#)
 - Assessing Summer Conditions and Readiness
- Extreme Weather Readiness [Assessment](#)
- [Reliability Fundamentals](#)
- Survey on Alternative Electro-Chemical-Based Energy Storage

WECC Standards Updates

Mailee Cook

Training and Outreach Specialist

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WECC Standards Updates

- The comment period for the implementation plan for WECC-0157 is open through June 4.
- FERC approved the retirement of BAL-002-WECC-3. The effective retirement date is July 1, 2026.
- The WSC will be meeting the first week of June to seat the WECC-0160 Drafting Team and authorize drafting to begin.

Registration Updates

Abby Fellingner

Senior Registration & Certification Engineer

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May 21, 2026



Agenda

- NERC Compliance Registry Matrix – Category 2 Functions Published
- Reminder about Registration Activities – Especially Generation Assets
- Recent Changes to NERC Registration Documents
 - CMEP Practice Guides Changed to Reference Documents
- New Resource Document – WECC Welcome Guide



NERC Compliance Registry (NCR) Matrix

- The [NCR Matrix](#) includes Category 2 GO and GOP functions.
- As of May 15, 2026, WECC has 142 Category 2 GOs and 79 GOPs on the NERC Compliance Registry. Note: This information is subject to change.
- Please ensure your registration information is reflected correctly on the NCR Matrix.

NERC Active Compliance Matrix as of May 15, 2026			
GO Category 1 <input type="checkbox"/>	GO Category 2 <input type="checkbox"/>	GOP Category 1 <input type="checkbox"/>	GOP Category 2 <input type="checkbox"/>
GO-1 (02/06/2015)	GO-2 (05/15/2026)	GOP-1 (02/06/2015)	GOP-2 (05/15/2026)

Reach out to registration@wecc.org with any questions.



Generation Asset Activities Occurring

Additional Registration Activities in WECC

- Pending COD
- Ownership changes
- GOP changes
- Entity Name changes
- Category 2 registrations will become Category 1



Continue to Complete Registration Steps

- Please submit registration activity requests 60 days ahead of the expected effective date.
- Send request to registration@wecc.org.
- Please notify WECC when the registration activity is complete (when the effective date is reached).



Recent Changes to NERC Registration Documents

- Documents Changed from CMEP Practice Guides to Reference Guides
 - [Registration Documentation](#) – NERC recently published as ERO Enterprise registration reference documents, formerly posted as CMEP Practice Guides.

 Bulk Electric System Definition Reference Document	Modified: 04/28/2026
 Bulk Electric System Definition Reference Document - Consideration of Comments	Modified: 04/28/2026

 Application of the Bulk Electric System Definition to Battery Energy Storage Systems and Hybrid Resources	Modified: 05/01/2026
 ERO Enterprise Registration Reference Application of the Registration Criteria for Category 2 Generator Owner and Generator Operator Inverter-Based Resources	Modified: 04/29/2026
 ERO Enterprise Registration Reference for Distribution Provider directly connected Determinations	Modified: 04/29/2026

ERO Enterprise registration reference documents address how ERO Enterprise staff apply the registry criteria in particular circumstances and are not compliance approaches to comply with reliability standards or interpretations of reliability standards. They are also not intended to supersede the Rules of Procedure or FERC issuances or precedent. They provide direction to ERO Enterprise registration staff on consistent application of the NERC Registry Criteria in Appendix 5B of the Rules of Procedure and transparency to stakeholders.



Resources

Self-Certification Update

Ben Aldous

Senior Technical Analyst

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May 21, 2026

Self-Certification for 2025

CMEP IP Risk Element	Rationale	Self-Certification Requirement
Grid Transformation	Address aggregation of control concerns over third parties performing day-to-day operations. Ensure proper identification of Control Centers to afford required security controls.	CIP-002-5.1a R1
Physical Security	Mitigate risks to the reliable operation of the BES as the result of increased Physical Security events related to low impact assets.	CIP-003-8 R2
Remote Connectivity	Review more crucial procedures concerning remote access and a focus on the implementation of low impact programs.	
Extreme Weather Response	Ensure each Generator Owner has developed and implemented plan(s) to mitigate the reliability impacts of extreme cold weather.	EOP-012-3 R4, R5



Recommendations: Cold Weather Preparedness

Document formal processes and procedures for calculating Extreme Cold Weather Temperatures (ECWT), **including the impact of geography and elevation.**

Recommendations: Cold Weather Preparedness

- Implement an **electronic inspection and maintenance system** for cold weather preparedness. The system should provide automated reminders when cold weather inspection and maintenance actions are due or complete and track newly identified issues to closure.
- Develop a **database of cold weather-related equipment** requiring inspection and maintenance, including Generator Cold Weather Critical Components (GCWCC) and associated freeze protection measures.

Recommendations: Cold Weather Preparedness

- Define clear **learning objectives** for annual generating unit-specific training. Ensure training content reflects stated learning objectives. Formally evaluate learners' knowledge of covered content at the end of each training session.
- Conduct random generating unit-specific **knowledge checks**.



Recommendations: Cold Weather Preparedness

- **Identify and track personnel** responsible for implementing the cold weather preparedness plan by role/job title and date.
- Systematically **maintain training records** for all generating unit-specific training, with automated reminders when annual or other training is required.

Oversight Trends Update

Ben Aldous

Senior Technical Analyst

**Electric Reliability
& Security for the West**


May 21, 2026



Oversight Trends Update

- Published quarterly
- May 2026 [now available](#)

<Public>



Oversight Trends Update

Data as of May 1, 2026

Highlights

- WECC has processed requests to register nearly 10 GVA of Category 2 Inverter-based Resources (IBR) effective May 15, 2026. This includes 144 new entities and 61 function additions for existing entities.
- In reviewing self-certification for 2025, WECC has observed many entities demonstrate weak controls and processes in their oversight of third parties in protection of low-impact BES Cyber Systems as required by CIP-003-9. This will continue to be a priority monitoring focus. Second, WECC identified several recommendations to enhance risk mitigation as required by EOP-012-3, including Extreme Cold Weather Temperature calculation, cold weather maintenance and testing, and training implementation and effectiveness review. These recommendations are shared with applicable entities directly and will also be the topic of upcoming outreach.
- The NERC Rules of Procedure empower WECC to initiate monitoring or enforcement actions with entities that fail to provide requested data. In the first part of 2026, WECC pursued action under these provisions in three separate instances. WECC considers timely and responsive entity engagement when carrying out monitoring and enforcement activities.

Registration Requests

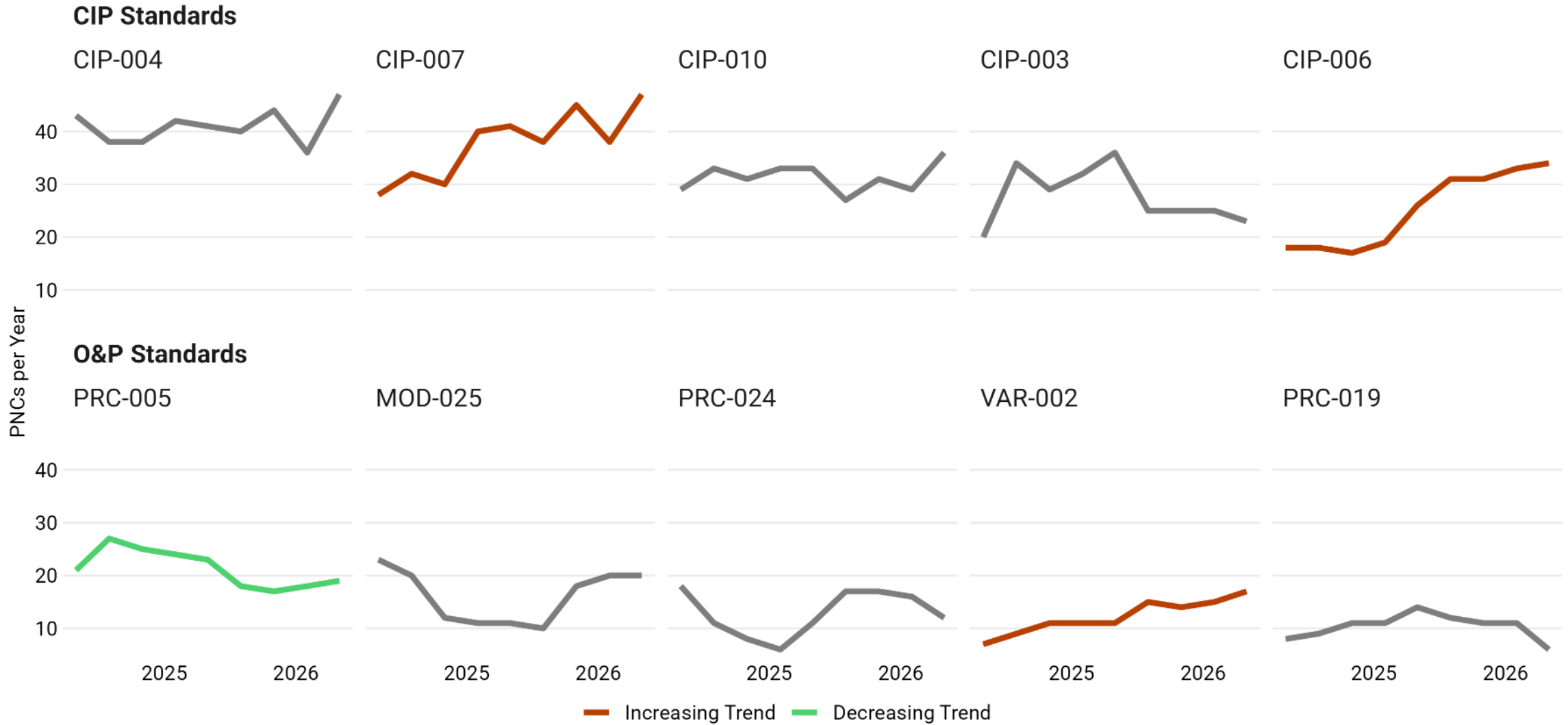
The Organization Registration and Certification Program (ORCP) registers users, owners, and operators responsible for meeting the requirements of mandatory NERC Reliability Standards. WECC also recommends BC entities for registration with the British Columbia Utilities Commission (BCUC).

Entities as of May 1, 2026				
	US	BC	AB	MX
BA	36	1		
DP/DPUF	80	17		
GO-1	374	18		
GOP-1	256	18		
PC	31	1		
RC	2	1		
RP	51	2		
TO	86	4		
TOP	51	3		
TP	68	3		
TSP	33	2		
ISO			1	
Entities	492	31	1	1

ELECTRIC RELIABILITY AND SECURITY FOR THE WEST



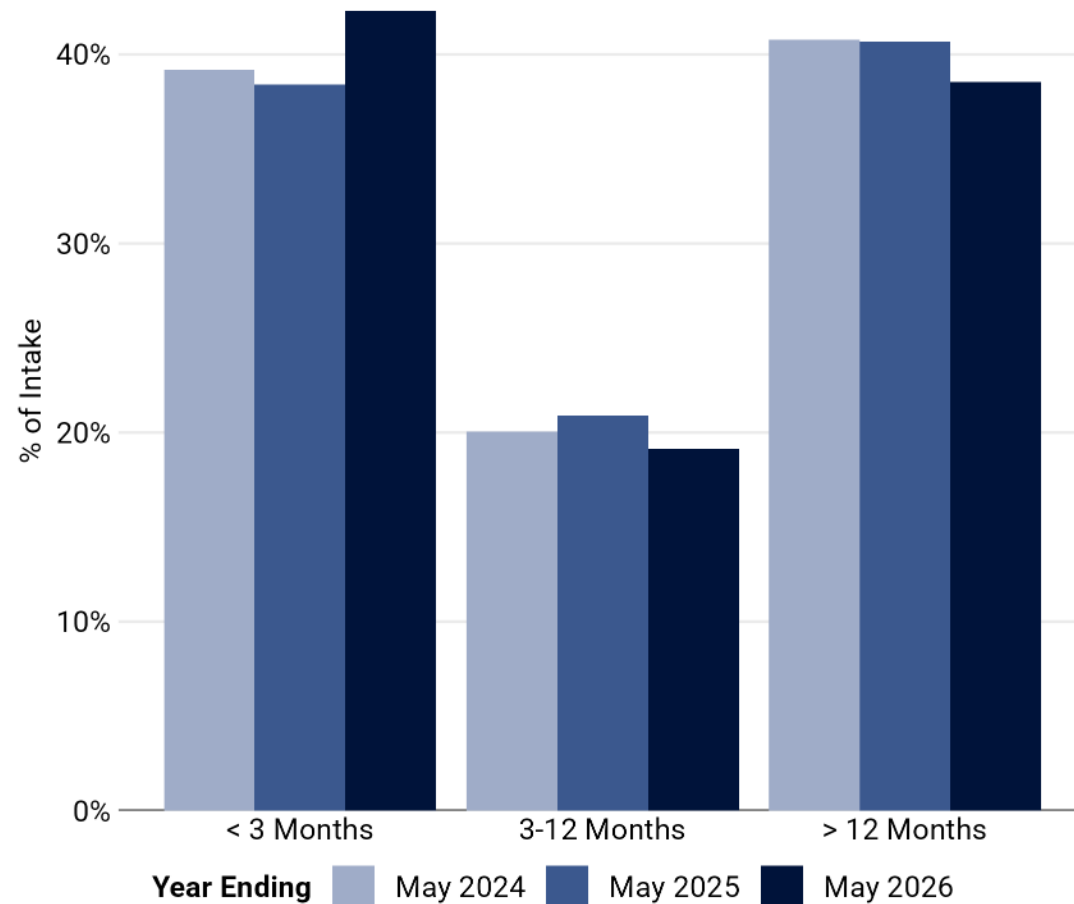
Most-Reported Standards



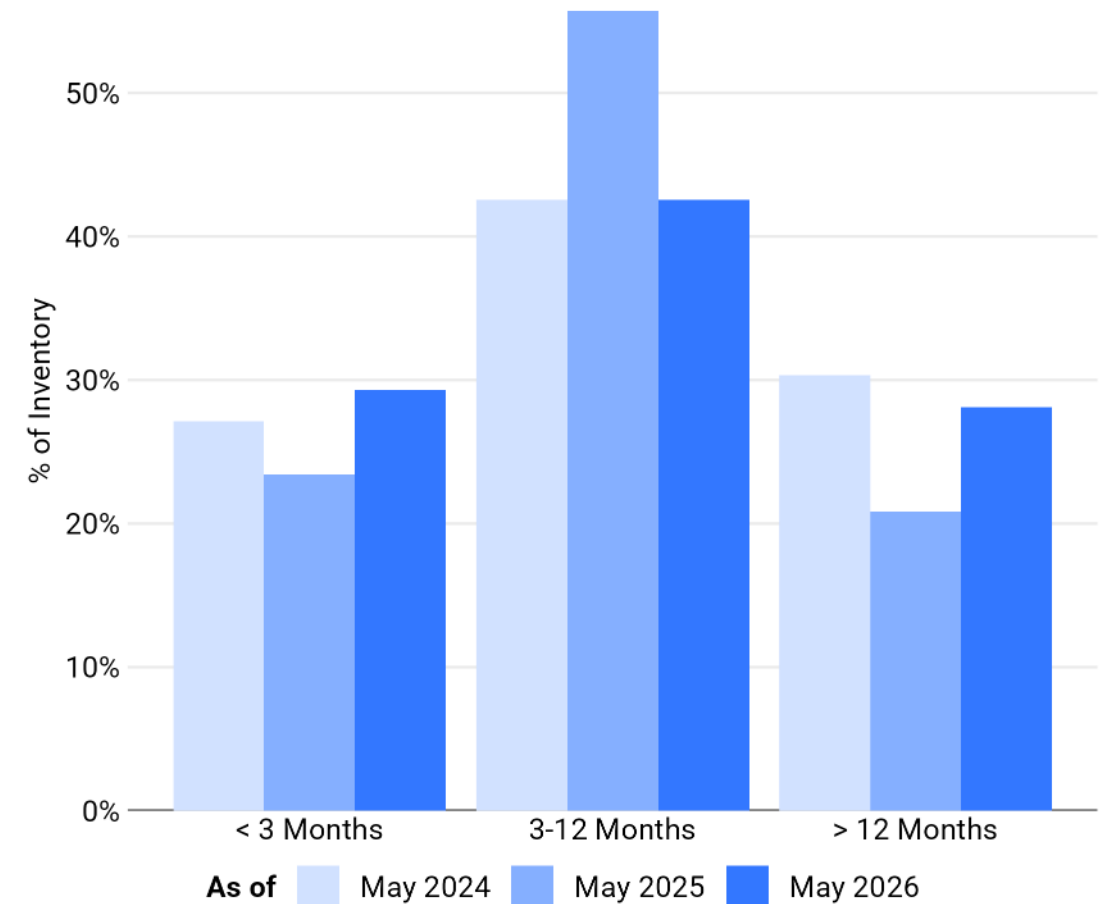


Time to Detect and Mitigate Noncompliance

Detect



Remediate + Mitigate





U.S. Registered Entities

Function	Category	As of Feb 2026	As of May 2026	Change
GO	1	365	374	+9
GO	2	--	153	+153
GOP	1	253	256	+3
GOP	2	--	81	+81
All Functions		480	638	+158

Loads and Resources Data Request

Ashton Davis
Reliability Engineer

Loads and Resources Data Request

- Each year, WECC requests timely and accurate data from Balancing Authorities to support its reliability efforts, including the Anchor Data Set, State of the Interconnection Report, power flow analyses, Western Assessment of Resource Adequacy, and more. We also give this data to NERC for use in the Long-Term Reliability Assessment, Summer Reliability Assessment, and Winter Reliability Assessment.
- Annual L&R data request – three workbooks:
 - New and Existing Resources
 - Existing generation within BA, future generation anywhere
 - Previous year actual hourly generation
 - Demand
 - Historic hourly demand and monthly energy/peak projections
 - Transmission, Transformers
 - New or upgraded transmission lines/transformers and transmission losses
- Reliability Narrative
 - Qualitative questions
 - Experiencing supply chain disruptions?
 - Large load questions

Data Validation Improvements

- Many streamlined internal processes for data validation
- 2025 L&R: Introduced “Performance Feedback Reports”
 - Graded data submitters on:
 - Timeliness: Data submitted by due date?
 - Communication: Responsive to emails during validation period of February/March?
 - Data Quality: How many corrections were made? Full of errors?
 - Data Completion: Were all elements of the data request submitted and complete in nature?
 - Template Adherence: Followed template or changed template?
 - Meeting Participation: Attended all five L&R Meetings? (sixth meeting not counted)
- Release performance feedback reports annually
 - First released in 2025 L&R; able to compare to 2026 L&R to see results

Example Performance Feedback Report



Submission Details:

Entity Name: **Balancing Authority #1**
 2026 Loads and Resources Data Request Cycle
 Data Provider: Jim Bob

Report Overview:

Each year, WECC requests timely and accurate data from Balancing Authorities to support its reliability efforts, including the [Anchor Data Set](#), [State of the Interconnection Report](#), power flow analyses, [Western Resource Adequacy Assessment](#), and more. This data is also provided to NERC for use in the [Long-Term Reliability Assessment](#), [Summer Reliability Assessment](#), and [Winter Reliability Assessment](#). To evaluate how each Balancing Authority responds to the Loads and Resources (L&R) data request, WECC has developed this submission performance report based on the metrics outlined below.

Performance Metrics:

Balancing Authority #1

Categories	Data Request	Reliability Narrative	Total
<i>Timeliness: Submission by the established deadline</i>	6	5	11 / 10
<i>Data Quality: Accuracy and correctness of submitted data</i>	5	5	10 / 10
<i>Data Completion: All required fields fully completed</i>	4	4	8 / 10
<i>Template Adherence: File format facilitates easy review and processing</i>	5	5	10 / 10
<i>Communication: Responsiveness to questions and requests</i>	5	N/A	5 / 5
<i>Meeting Participation: Attendance and preparation for meetings</i>	4	N/A	4 / 5
Total: Overall performance score based on the above categories	29 / 30	19 / 20	48 / 50

Score	Star Rating	Description
48-50	★★★★★	On time, complete, high-quality data. Exemplary submission.
40-47	★★★★	Generally timely and complete with only minor corrections or issues.
30-39	★★★	Submission completed with multiple corrections, moderate delays, or lapses in communication. Improvement needed.
20-29	★★	Frequent errors, delays, or missing data. Limited engagement. Substantial improvement necessary.
0-19	★	Major issues across timeliness, quality, completeness, and communication.

Performance Rating:

Balancing Authority #1 received an overall score of 48 out of 50, resulting in a 5-Star rating. The numbers shown in the stars indicate the number of data submitters receiving that rating.



Score	Star Rating	Description
48-50	★★★★★	On time, complete, high-quality data. Exemplary submission.
40-47	★★★★	Generally timely and complete with only minor corrections or issues.
30-39	★★★	Submission completed with multiple corrections, moderate delays, or lapses in communication. Improvement needed.
20-29	★★	Frequent errors, delays, or missing data. Limited engagement. Substantial improvement necessary.
0-19	★	Major issues across timeliness, quality, completeness, and communication.

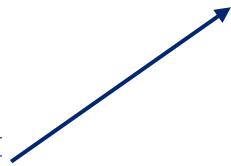
Performance Highlights and Improvement Opportunities:

Key highlights where your organization performed well:

- Early submission, great data quality! Excellent insights shared on Supply Chain tab.

Recommendations for future improvement:

- DSM Tab was left empty, should answer "No" if not applicable.



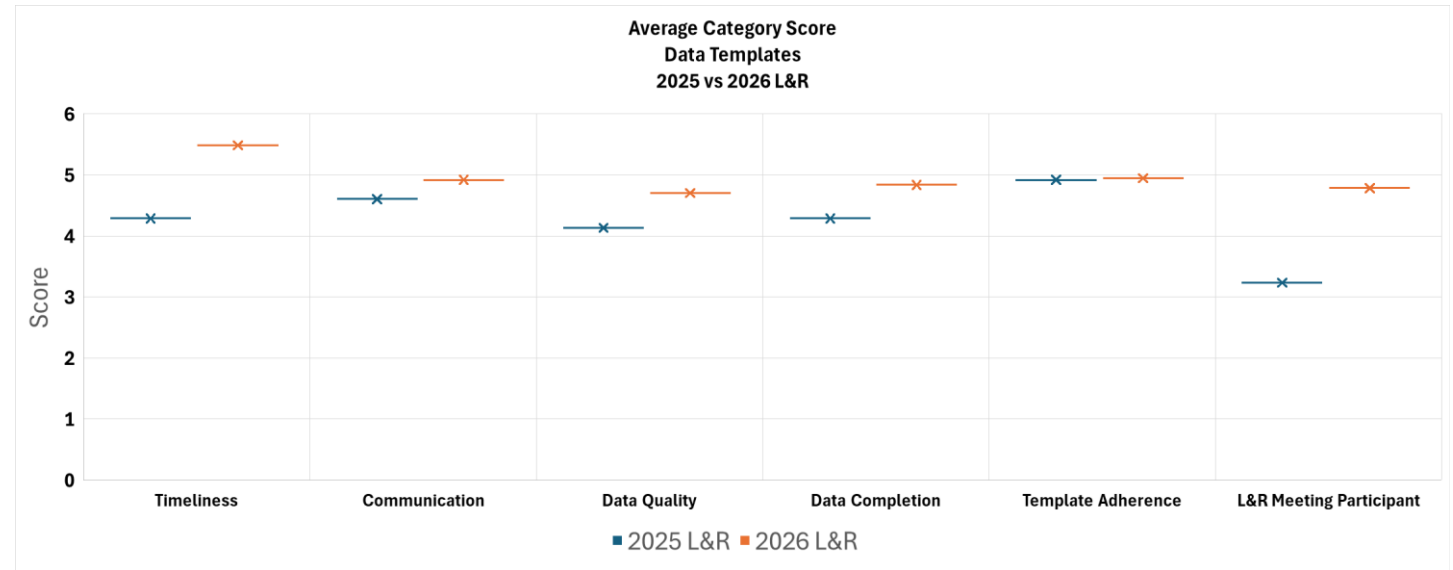
New to 2026 Performance Reports

- Offered one bonus point to “Timeliness” if submitted before due date
 - Allows WECC to get a headstart on validating the data
- Offered a “pre-check” option
 - If submitted before due date, WECC will review and correct mistakes without affecting final grade
- Results (out of ~38 entities)
 - 22 entities took advantage of the early submission bonus point
 - 18 entities participated in the pre-check option

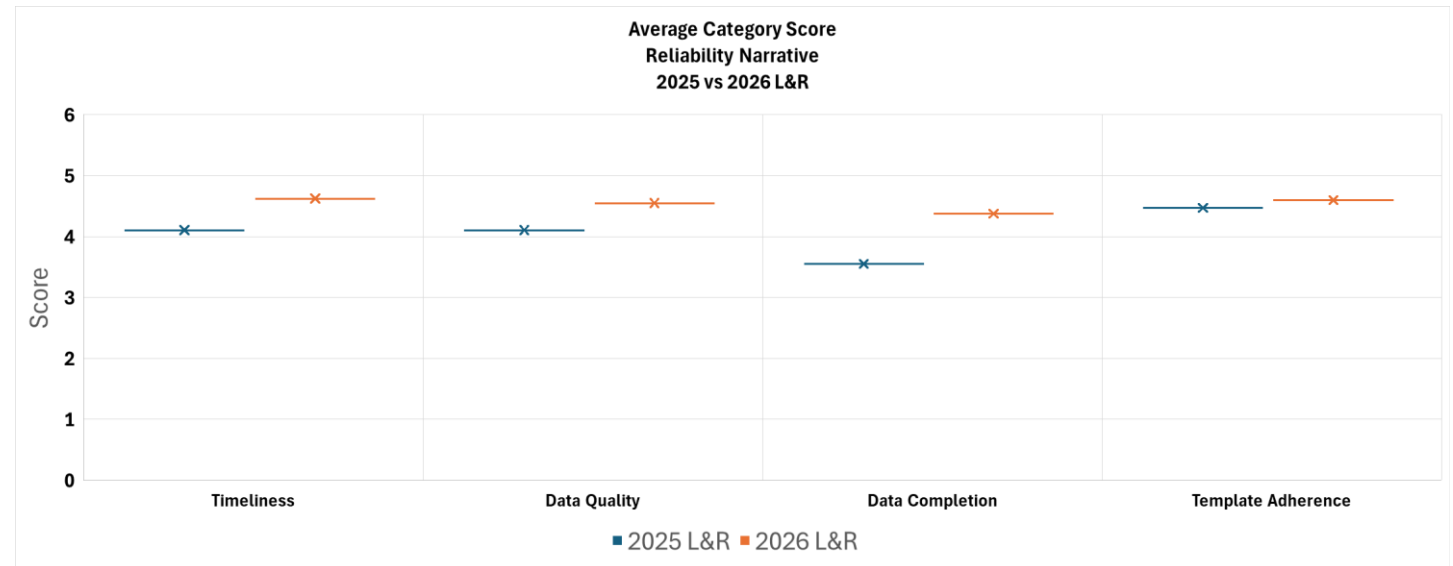


Individual Metric Improvements

- L&R Data Templates:
 - Average Improvement: 17%



- L&R Reliability Narrative:
 - Average Improvement: 45%



Performance Feedback Reports Effects

- Total employees and employee hours needed to validate the data were drastically reduced, along with number of emails sent regarding data quality.
- Data validated and available for modelling over a month sooner than in 2025
 - Eliminated the need to pull a “preliminary” dataset to work with until the validated dataset is fully ready
 - Able to submit models and assessments on time and with high confidence



Performance Feedback Reports

- Questions?



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ENGAGE WITH WECC





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