



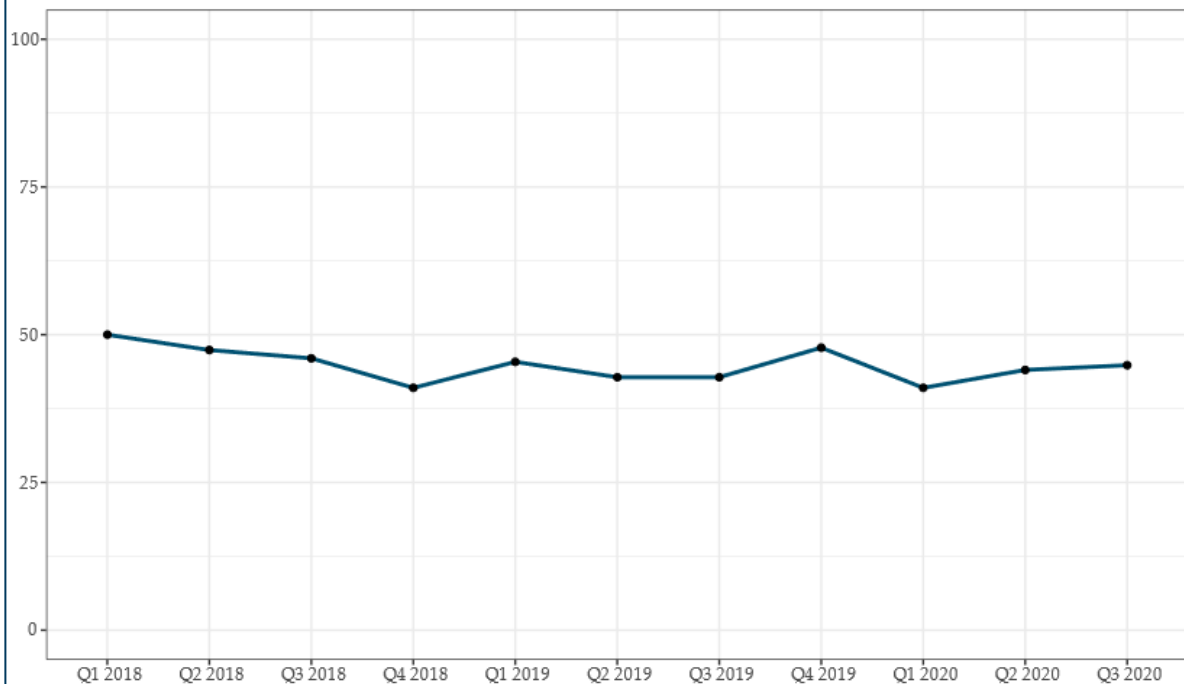
WECC Reliability and Security Indicators— RRC Meeting

June 2022

Vic Howell
Director of Reliability Risk
Management

Background

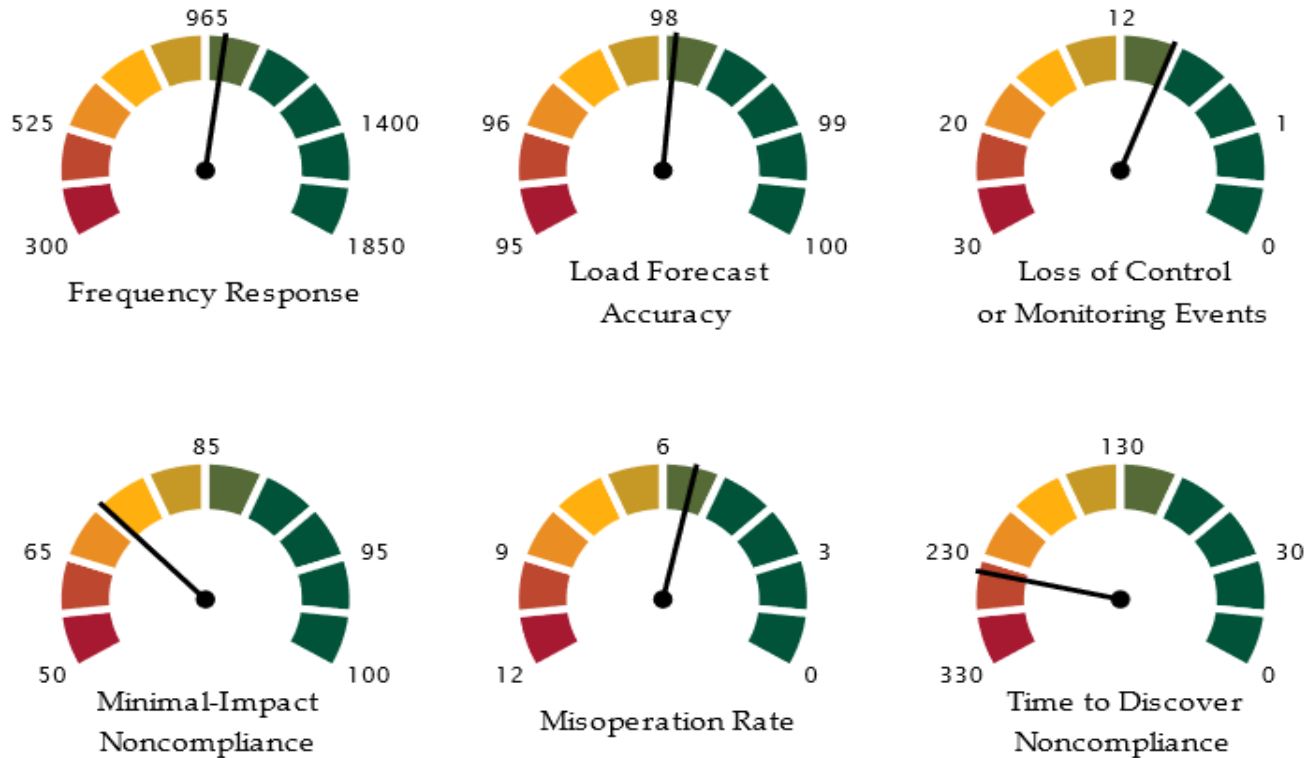
Reliability & Security Index



- In effect since 2016
- Updated quarterly
- Presented at WECC Board Meetings

Background

Index Components



Single index is a statistical value derived from six weighted measures

Background

- WECC Executive Team initiative to revise metrics
- Breakthrough Project Team:
 - Develop set of R&S metrics
 - Identify performance trends
 - Use trends to inform stakeholders and to identify reliability risks
 - Use R&S metrics to replace R&S Index

Collaborative Development

- WECC staff project initiated in late 2020
- Feedback from former WECC OC, PWG, and other subject matter experts
- Webpage development
- Rolled out in January 2022

Indicator Dashboard

WECC

Program Areas Committees Toolbox About

What are you looking for today? **SEARCH**

Popular Searches

Western Assessment of Resource Adequacy	Reliability and Security Indicator Dashboard	Study Program
Anchor Data Set (ADS)	Align	Wildfire Dashboard
Standards Dashboard	Daily Status Reports	State of the Interconnection

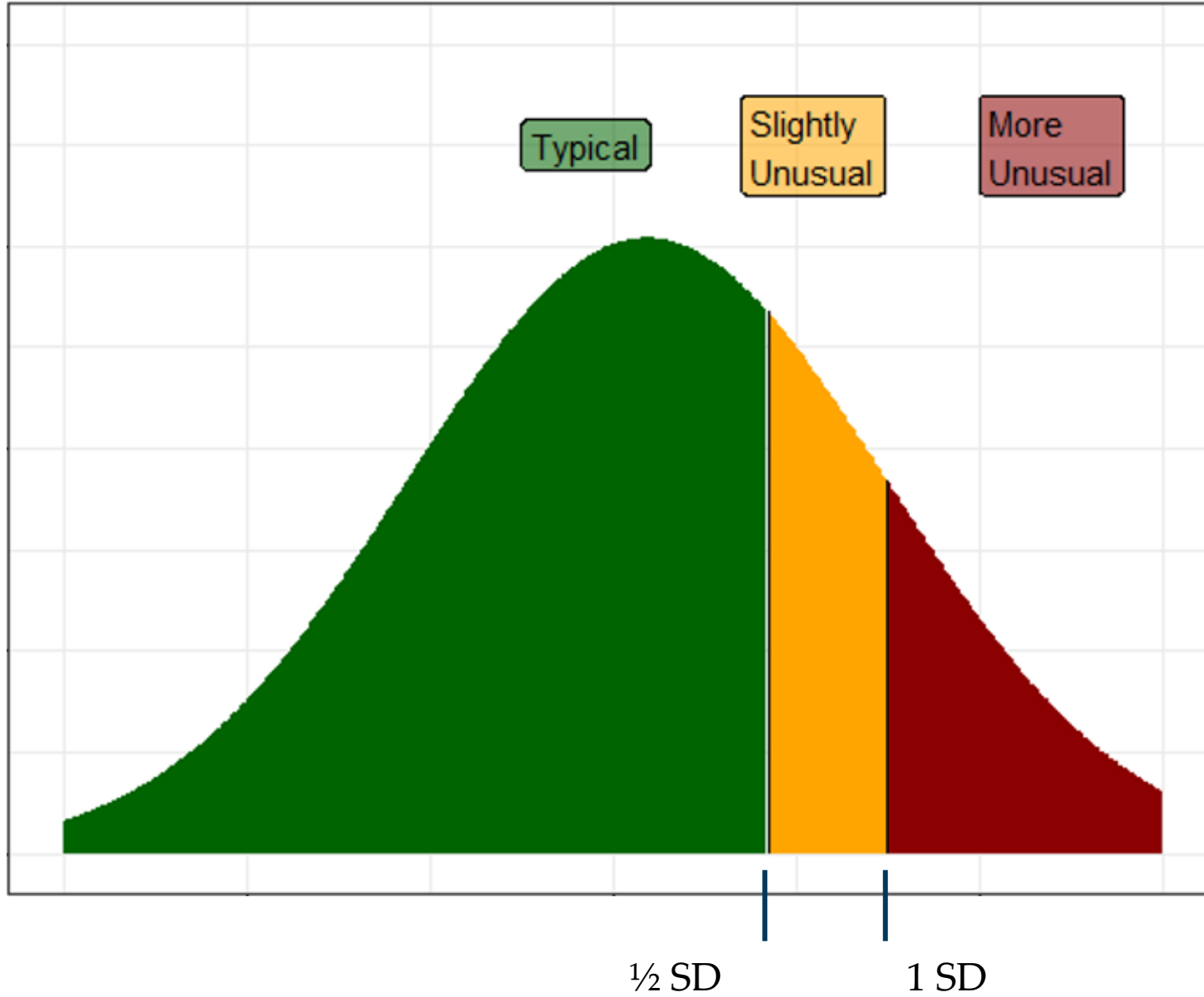
Indicator Dashboard



Uniform Approach

- Consistent statistical approach for all eight metrics
- Rolling yearly average calculated and shown as dashed line
- Metrics updated quarterly
- Compares each quarter to the rolling average
- Colors:
 - **GREEN**—less than $\frac{1}{2}$ standard deviation (SD)—“no concern”
 - **YELLOW**—between $\frac{1}{2}$ SD and 1 SD—“slightly unusual”
 - **RED**—greater than 1 SD—“more unusual”

Better performance \longleftrightarrow Worse performance



Indicator Dashboard Demo

What Next?

- Current set of Indicators is an initial step
- Goals:
 - Continuous improvement for increased value
 - R&S Indicator improvements
 - Dashboard improvements
 - Improvements in analytics for reliability risk identification
 - Collaborate with stakeholders
 - Enhance RRC engagement in Performance Analysis (see RRC Charter)



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