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California ISO



RC West

Reliability Coordinator (RC) and Energy Imbalance Market (EIM)

Nancy Traweek

Executive Director, System Operations

Presentation to the California Energy Commission

August 14, 2019

What is a reliability coordinator?

- A reliability coordinator is the entity with the highest level of responsibility for reliable operations
 - Wide area view of the bulk electric system
 - Operating tools, processes and procedures to prevent or mitigate emergency operating situations
 - Broad purview that enables the calculation of interconnection reliability operating limits that may be beyond other operators' vision



Every reliability coordinator provides the same core services to its customers

- 24/7 Real Time Operations
- Outage coordination
- Day-ahead operational planning analysis
- Real-time assessment
- Real-time monitoring and analysis
- System restoration coordination

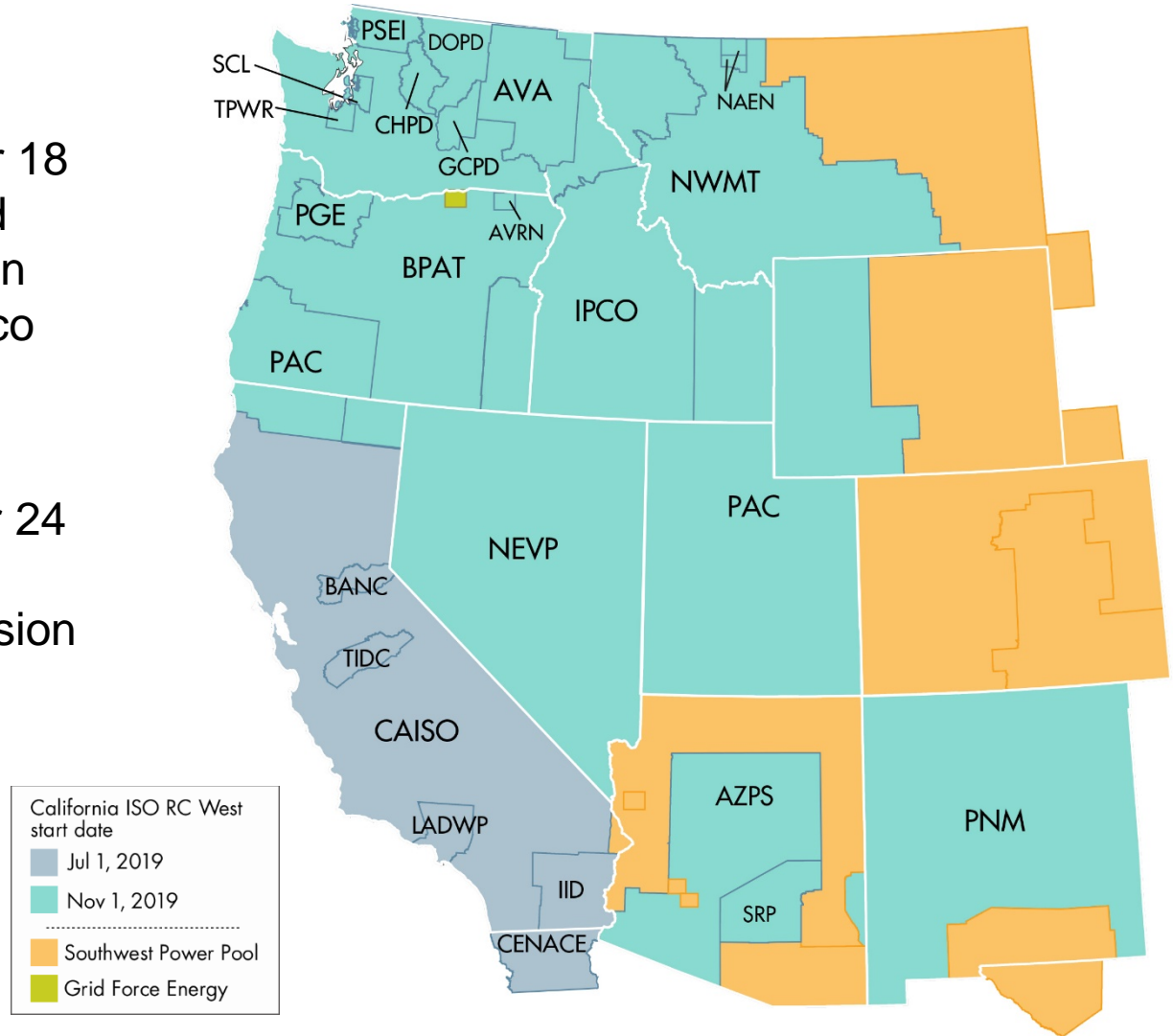
The CAISO is the Reliability Coordinator of record for its footprint, and has extended these services, called RC West, to other balancing authorities in the western United States.

RC West Footprint

July 1, 2019
Reliability Coordinator for 18
Balancing Authorities and
Transmission Operators in
California and Baja Mexico

November 1, 2019
Reliability Coordinator for 24
additional Balancing
Authorities and Transmission
Operators throughout the
Western States

<http://www.aiso.com/informed/Pages/RCWest/Default.aspx>





Western Energy Imbalance Market (EIM)

- Voluntary membership
- Nearly \$740 million in benefits since 2014
- Since 2015, the effective use of carbon-free generation from the market has resulted in a gross reduction of 403,546 metric tons of CO₂, which is the equivalent of removing the emissions of 84,844 passenger cars driven for one year
- Supply and load diversity reduces flexibility requirement by approximately 40%
- Uses advanced technologies to automatically find and deliver the lowest cost energy to consumers

www.westerneim.com

