

SRP Summer Preparedness 2019



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Robert Olsen Director, Supply Trading and Fuels

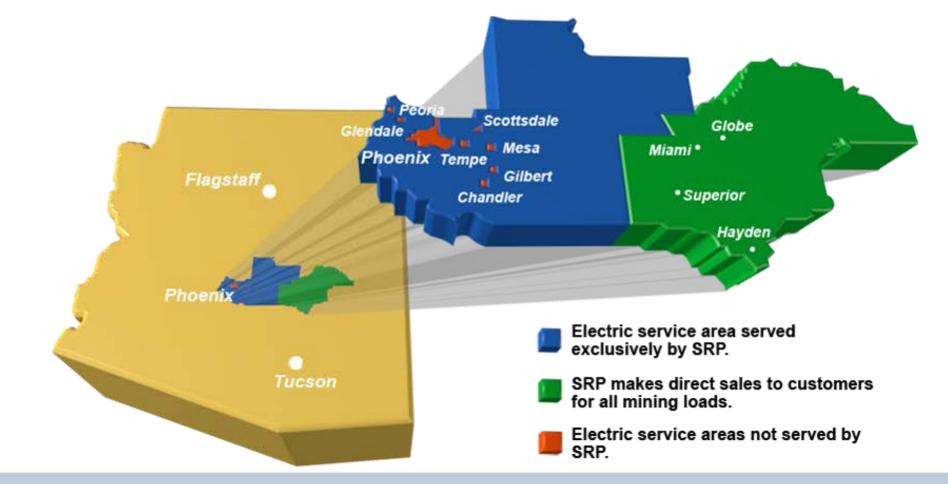


SRP's Electric System

- Provide electricity to over 1 million power users in a 2,900 square-mile area in parts of 3 counties – Maricopa, Gila, and Pinal
- System Stats:
 - 320 Substations
 - 3,242 Transmission Line Miles
 - 20,311 Distribution Line Miles
 - 48 Generation Units



SRP's Electric Service Area



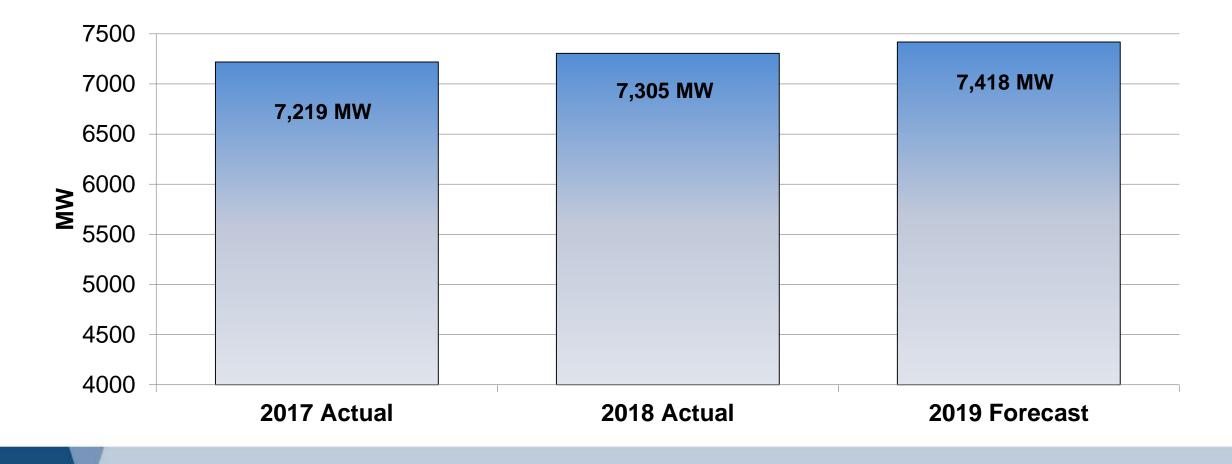




- Peak demand is expected to be higher than last year's peak.
- Adequate resources have been secured to meet anticipated demand.

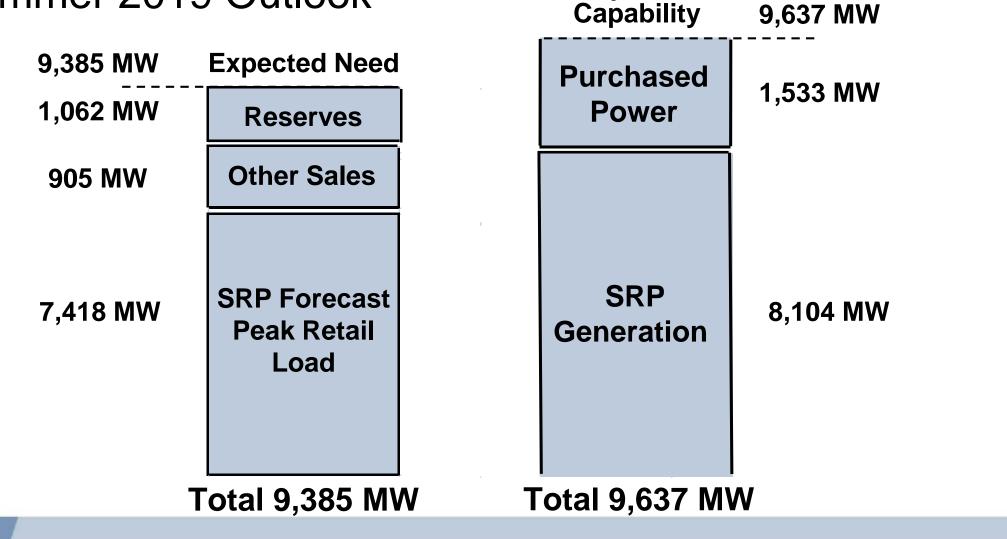


Peak Retail Load Forecast





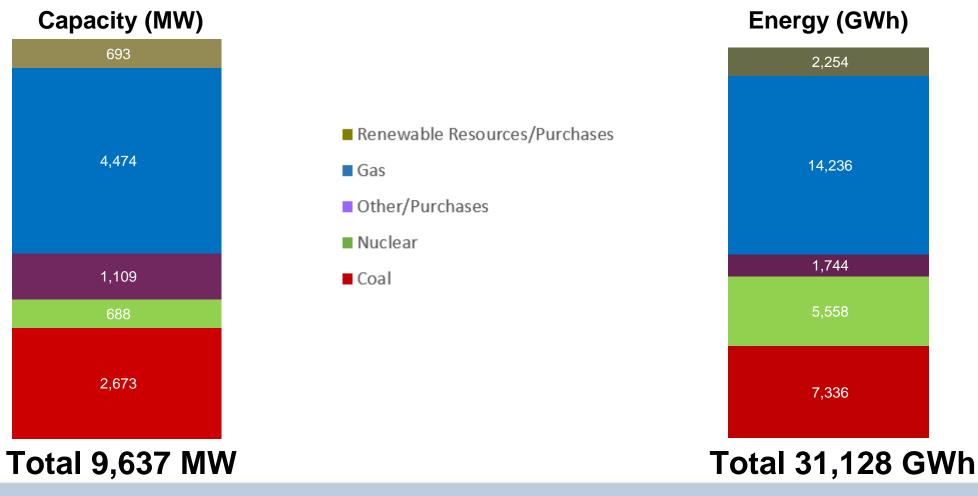




Expected



SRP 2019 Resources





FY 2020

Purchased Power

- Purchased power portfolio is in place to meet demand.
- In the event of multiple forced unit outages additional purchases may be needed.
- Regional market conditions suggest that there will be sufficient capacity to meet the Arizona demand.



Fuel Status

- Nuclear
 - Full requirements under contract.
- Coal
 - Full requirements under contract.
 - Inventory at coal plants are at/above target levels or expected to be at target levels prior to summer run.
- Natural Gas
 - Full transportation requirements are under contract with two natural gas corridors, each with access to two gas basins.
 - Current supplies of natural gas are more than sufficient.



Major Resource Activities for Summer 2019

- CalEnergy Geothermal Capacity
 - Increase in purchased capacity from 18 MW to 80 MW
- Dorman Battery Project
 - 10 MW/40 MWh grid charged battery project, operational since January







Steve Cobb Director, Transmission and Generation Operations



Transmission & Distribution Overview

• Transmission and Distribution Systems are prepared for summer operations.

 The system has sufficient capacity to serve forecasted peak demand.



Transmission Additions

- 1 Dedicated Industrial Substation
- 3 Distribution Bays to Support Load Growth
- 8 Circuit Miles
- 169 Poles to Support Load Growth
- 6 Breakers
- 5 Transformer Protectors for fault isolation





Proactive Replacements

- 4 Transformers
- 8 Upgraded Circuit Miles
- 405 Poles
- 17 Breakers
- 5 Transformer Protectors
- 2 Transformer Gas Monitors





Reliability and Planning

- Inter-Utility Coordination
- Grid Performance
- Grid Resiliency
- Operational Excellence





System Preparation

- Preventative Maintenance
- Emergency Operations Training
- Wildfire Coordination
- Vegetation Management





Vegetation Management





Transmission Tower Blowdowns – Summer 2018







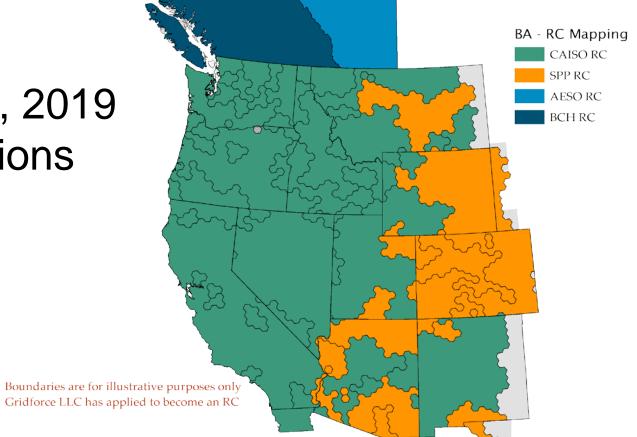
Reliability Coordinators – Western Interconnection

- A Reliability Coordinator (RC) is the highest level of operating authority in the Bulk Electric System (>100kV)
- RC Responsibilities:
 - Maintains a wide-area view of overall system conditions
 - Issues guidance and operating instructions to operating entities within the RC's footprint as required
- Peak Reliability and Alberta Electric System Operator are the current RCs in the Western Interconnect



Reliability Coordinators – December 3, 2019

- Peak Reliability will cease operations on December 3, 2019
- New RCs will begin operations this year:
 - RC West (California ISO)
 - Southwest Power Pool
 - BC Hydro
 - Gridforce





SRP – Outage Information Resources

- Conversational Interactive Voice Response System
 - Customers can easily report an outage with speech recognition or with an agent.
- SRP App and Online
 - Outage reporting and information.
- Proactive Outage Notifications Via Text or Email
 - 946,765 residential and 43,736 commercial customers enrolled.
- Outage Preparedness Training for Businesses
 - Expanded outage workshops for business customers.





Business Customer Outage Preparedness Workshops	IS YOUR BUSINESS PREPARED TO WEATHER THE STORM?
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SRP Harrison	3 Tuesday, May 22: DoubleTree by Hilton Phoenix Tempe, Tempe

