

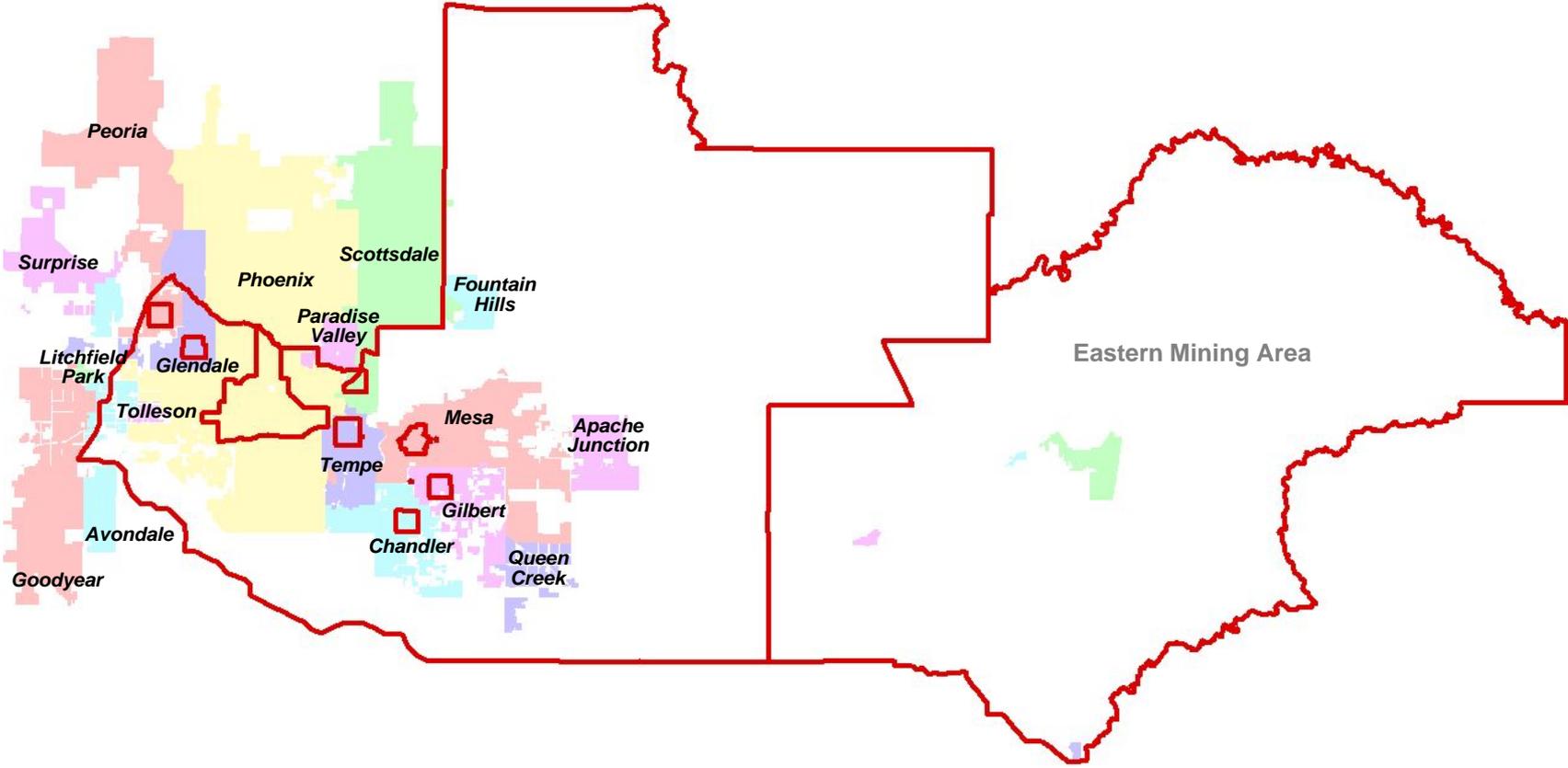
# SRP Summer Preparedness 2011

Steve Hulet  
Manager – Supply & Trading  
and  
Gary Harper  
Manager – System Operations

ACC Summer Preparedness Hearing  
April 11, 2011



# SRP Electric Service Territory

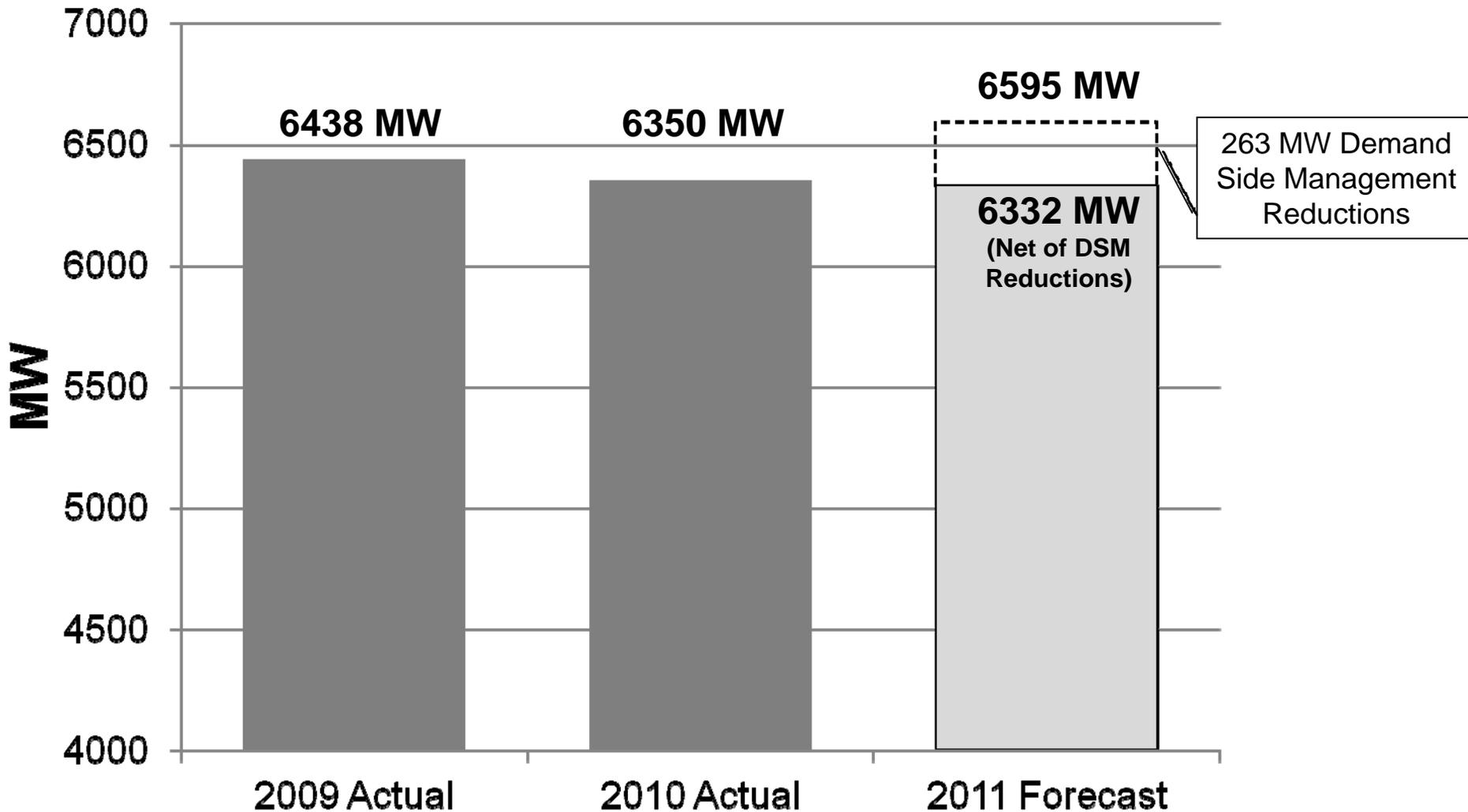


# Summary

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



# Peak Load Forecast



# Summer 2011 Outlook

## Expected Need

## Expected Capability

912 MW

Reserves

340 MW

Other Sales

6332 MW

SRP  
Forecast  
Peak Load

**Total 7584 MW**

Purchased Power 1860 MW

SRP  
Generation

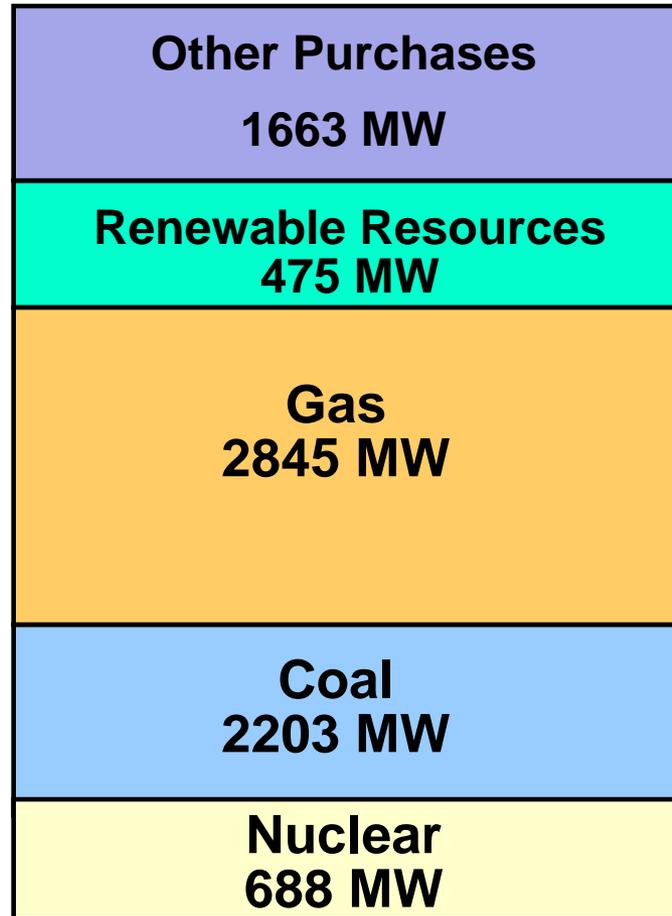
6014 MW

**Total 7874 MW**



# SRP Resources – 2011

*Expected Capability: 7874 MW*



# Purchased Power

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



# Reserves

- Respond to load extremes above base forecast.
- Provide an immediate response to forced outages.
- Quantity is based on NERC and WECC operating criteria and contractual arrangements.
- A portfolio of resources is utilized to meet the reserve requirements.



# Fuel Status

- Nuclear – Full requirements under contract.
- Coal
  - Plants expected to be at or above target inventories by summer season.
  - Full requirements under contract.
- Natural Gas
  - Full transportation requirements are under contract with two pipelines.
  - Current supplies of natural gas are adequate.



# Transmission & Distribution Overview

- Transmission and Distribution Systems are prepared for summer operations.
- The system has sufficient capacity to serve forecasted peak demand.



# Rudd 500/230 kV Transformer Replacement

- New Transformer Delivery: April 29, 2011
- Planned Energization Date: June 24, 2011
- Temporary replacement transformer will remain at Rudd and become a long-term spare



# 2011 System Additions – Stations

NEW	NUMBER
69/12kV Transformers (28MVA)	3
69kV Breakers	7
230kV Breakers	10
230/69kV Transformers (280MVA)	1
500kV Breakers	2
500/230kV Transformers (598 MVA)	3



# 2011 System Additions – Lines

ADDITIONS	NUMBER
Pole Replacements	136
Rebuilt/Upgraded Circuit Miles of 69kV Lines	3.5
New Circuit Miles of 69kV Lines	4.7
New Circuit Miles 230kV Lines	32.2
New Circuit Miles of 500kV Lines*	71.6

\* Browning – Randolph (44.6 miles) energized at 230kV until 2014 to provide second line for interconnection of the Coolidge Peaking Station, per the CEC Morgan – Pinnacle Peak (27 miles) Participation Project with APS



# System Preparation

Transmission and substation maintenance and training will be complete by summer. This includes:

- Line patrols/inspections
- Preventative maintenance
- Pole reinforcement
- Pole change-outs/upgrades
- Wildfire coordination
- Operations coordination
- Tree trimming
- Cable replacement
- Storm planning
- Emergency procedure training
- Blackstart training



# Distribution

- Summer operating procedures reviewed and refresher training provided to O&M personnel.
- Nine mobile substation transformers are available for service if needed.
- If required, the process for implementing rotating outages has been automated.
  - The planned sequence of substation outages and the duration of each outage is the same as in the past.



# TransCanada – Coolidge Generating Station



12 Combustion Turbines – Approx. 512MW of Summer Peaking Capability

# Summary of Year 2011 Projected Conditions

- Transmission, distribution, SRP generation and planned energy purchases are adequate to serve the forecasted summer 2011 demand.
- Forecasted 2011 demand is comparable to 2010 demand with more transmission and generation resources available.
- Contingency plans are in place to handle emergency events.



# Major Transmission Construction

