USING ENERGY EFFICIENCY IN RESOURCE PLANS TO ARGUE FOR INCREASED ENERGY EFFICIENCY



Ellen Zuckerman & Jeff Schlegel Southwest Energy Efficiency Project (SWEEP) ACEEE EE as a Resource Conference, September 2013

AZ'S ELECTRIC EE POLICY FRAMEWORK

- Electric Standard
 22% savings by 2020
 (20% energy savings)
- IRP Rules Meaningful, fair opportunity for EE to compete as a resource
- Decoupling Policy Allows IOUs to file decoupling proposals

Annual Program Savings: 2010-2012

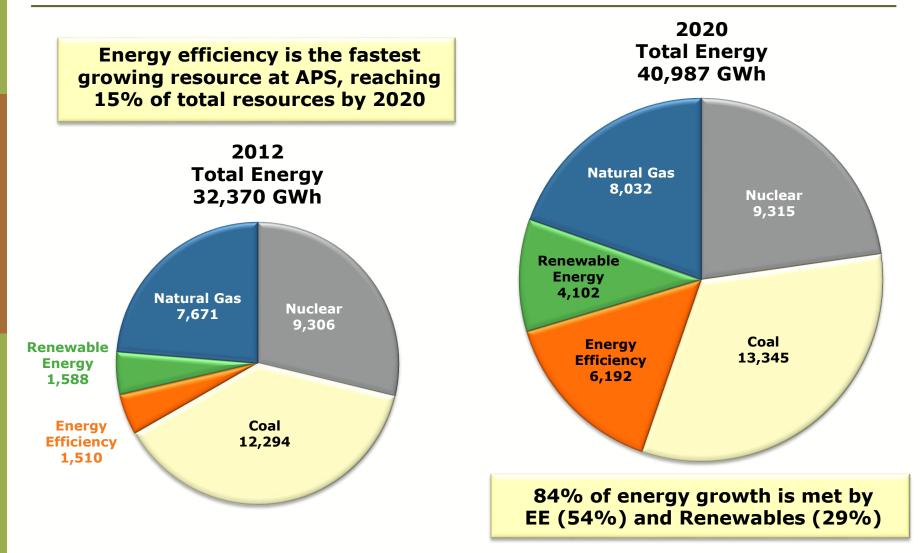


IRP Rules and Decoupling Policy Were Almost as Important to SWEEP as the EE Standard

WHY IRP IS IMPORTANT TO EE

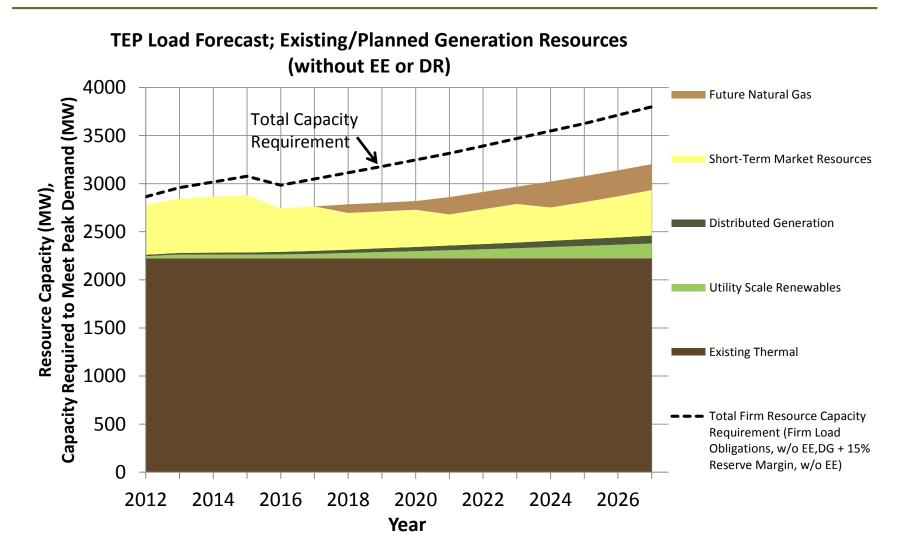
- EE is significant and no longer "in the noise"
- EE must be accurately quantified and aligned with forecasts so:
 - Our lights stay on
 - We don't overinvest in unnecessary infrastructure
- To make the policy case for EE
 - Show EE benefits
 - Show EE to be reliable, least cost resource
 - Engender stronger political support
- To work with utilities to include EE in their longrange plans to help institutionalize and "lock in" EE

EE IS A SIGNIFICANT RESOURCE IN UTILITY IRPS

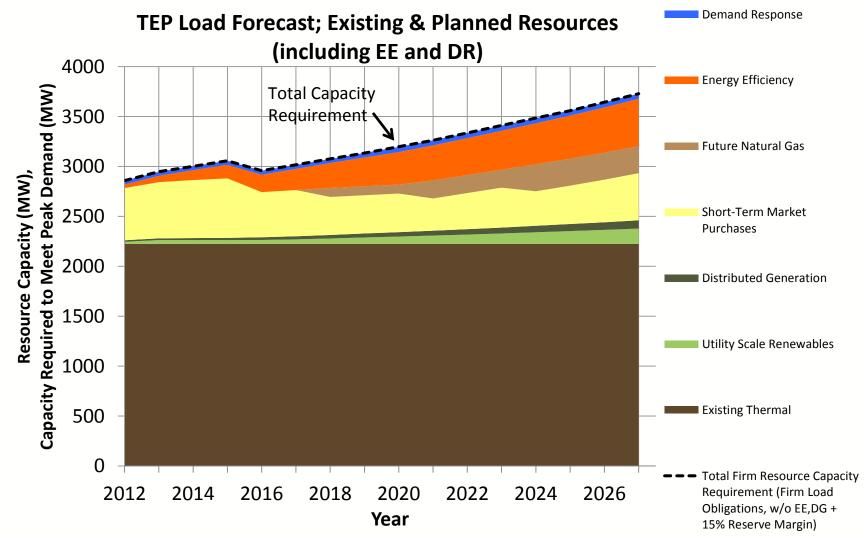


Source: Arizona Public Service Company, Arizona Public Service Company 2012 Integrated Resource Plan

UTILITIES HAVE UNMET LOAD OBLIGATIONS WITHOUT EE & DR



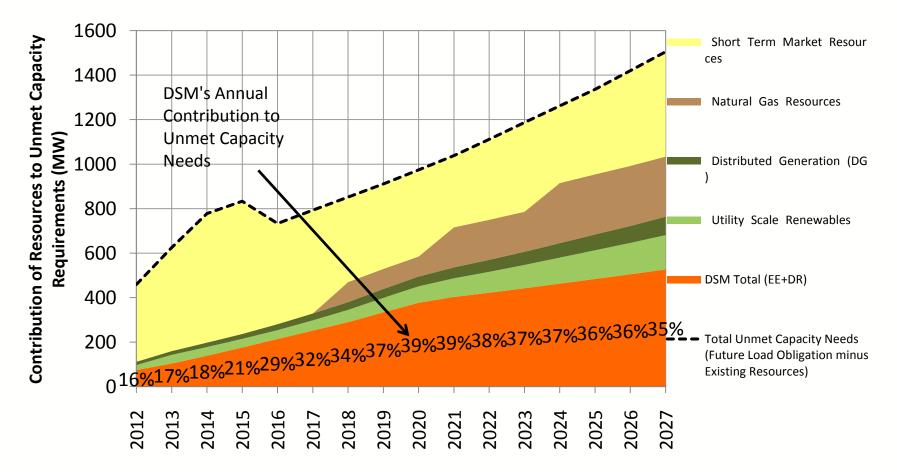
EE & DR ARE RELIED UPON TO MEET LOAD OBLIGATIONS



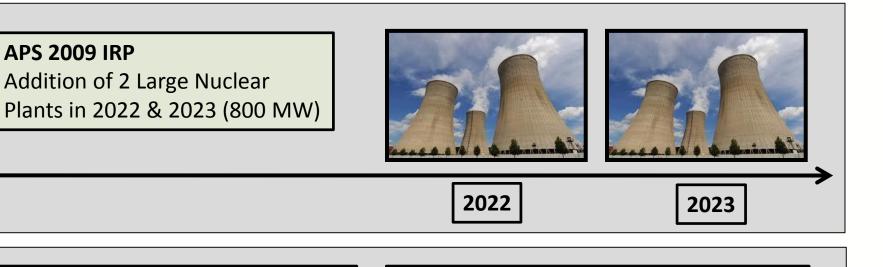
Data Source: Tucson Electric Power 2012 IRP

EE & DR MEET 30-39% OF CAPACITY NEEDS

Contribution of Future Resource Additions to Unmet Capacity Needs



EE AVOIDS INVESTMENT IN LARGE BASELOAD PLANTS



APS 2012 IRP

No Baseload Plant Additions ~820 MW Additional EE in 2022-23

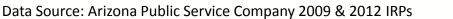
+ ~820 MW of Additional EE





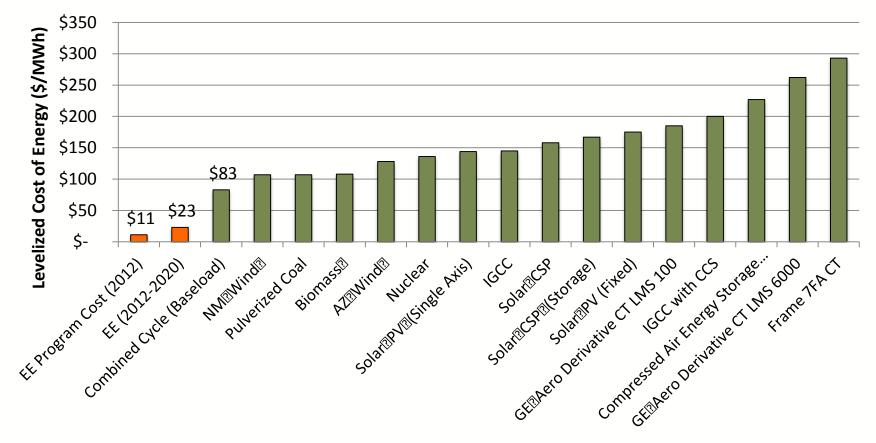
2023

2022



EE IS THE LOWEST COST ENERGY RESOURCE

Levelized Cost of Resources in TEP's 2012 IRP



Conventional resource costs include fuel, capital, O&M, transmission, and interconnection costs. Renewable resource costs include generation, delivery, backup capacity, and system integration costs. Data Source: Tucson Electric Power 2012 IRP, 2012 DSM Report, and 10/31/2012 TEP Rate Case Technical Conference

HOW WE HAVE & ARE USING UTILITY IRPS IN AZ

Inclusion of EE as fundamental, significant resource in utilities' IRPs provides strong evidence for sustaining and continuing to EE programs investment in the face of challenges to EE in AZ

Used utility prepared IRPs to support EE as low cost, low risk, high value resource

- IRP proceedings
- Briefings with utility commissioners and meetings with public
- Rate cases (Example: TEP Rate Case)
- Moving Forward: Continue to work with utilities to analyze and clearly communicate EE benefits in 2014 IRP cycle

CONTACT INFORMATION

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EXTRA SLIDE: ARIZONA'S ELECTRIC LANDSCAPE

- **3** Major Electric Utilities
 - APS, SRP, & TEP
 - 86% of Retail Sales
 - Serve 2.5M customers
- PUC Jurisdiction Over APS & TEP
- SRP Board Oversees SRP
- Strong EE Policy Frameworks

