

UNS

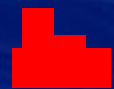
2014 Integrated Resource Plan

Victor Aguirre
Manager, Resource Planning

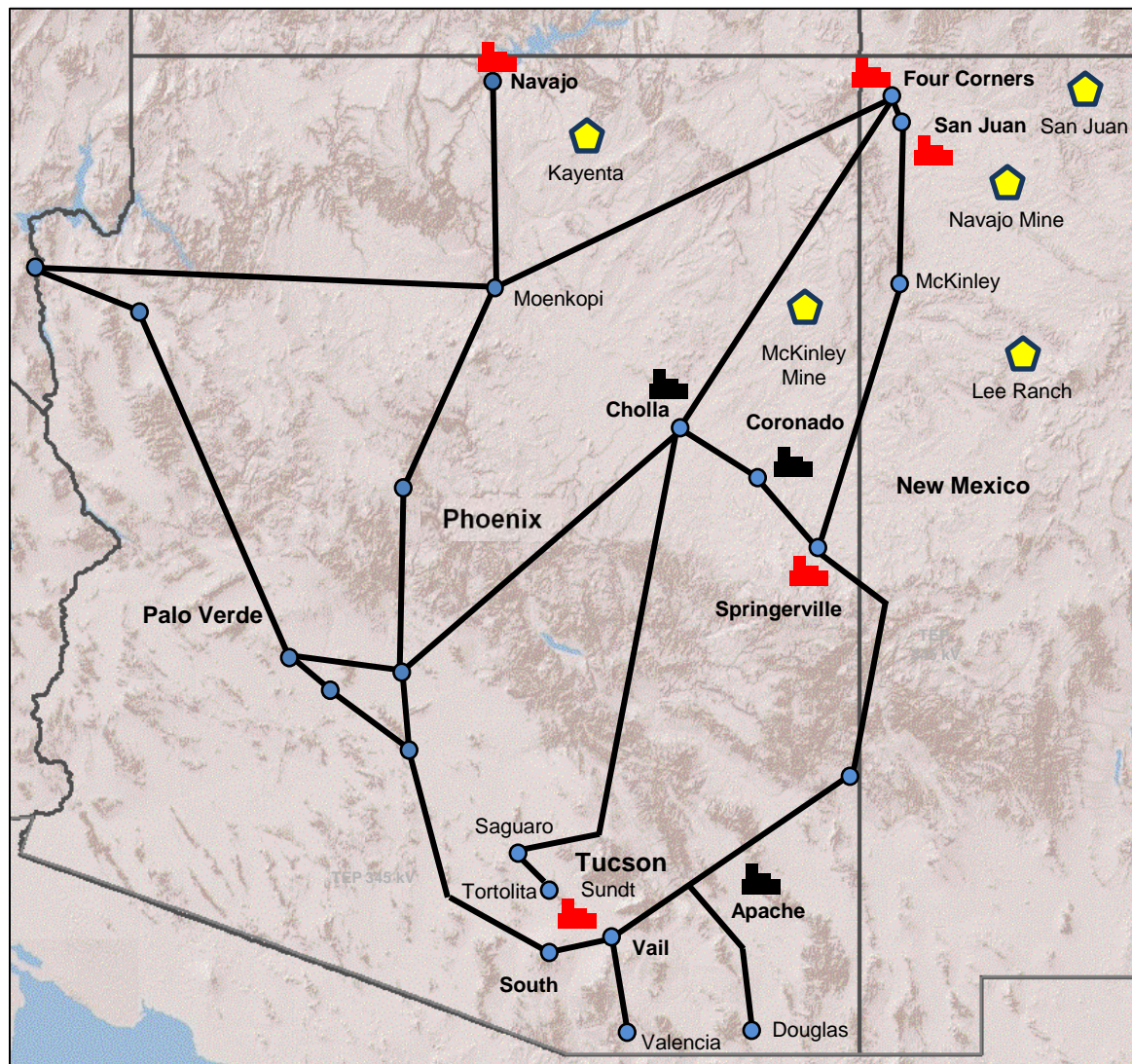
June 2, 2015

Integrated Resource Plan

- Comprehensive analysis and guide that identifies future generation and transmission capacity requirements
- Meet future demands while maintaining reliability
- Comply with regulatory requirements
- Balance between minimizing costs to customers, mitigating environmental impacts, effective utilization of infrastructure and support of local economies



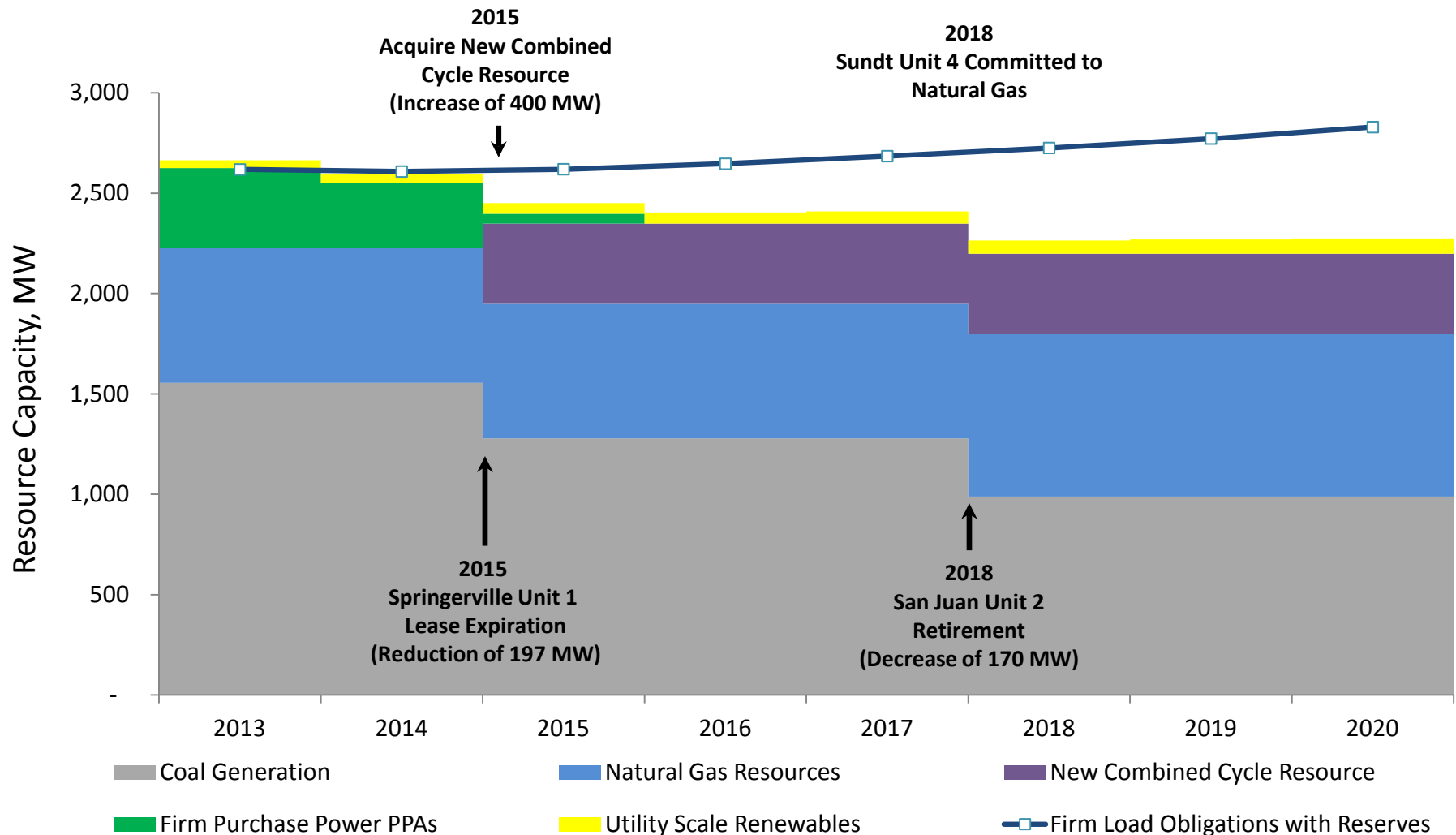
Tucson Electric Power - Coal Resources



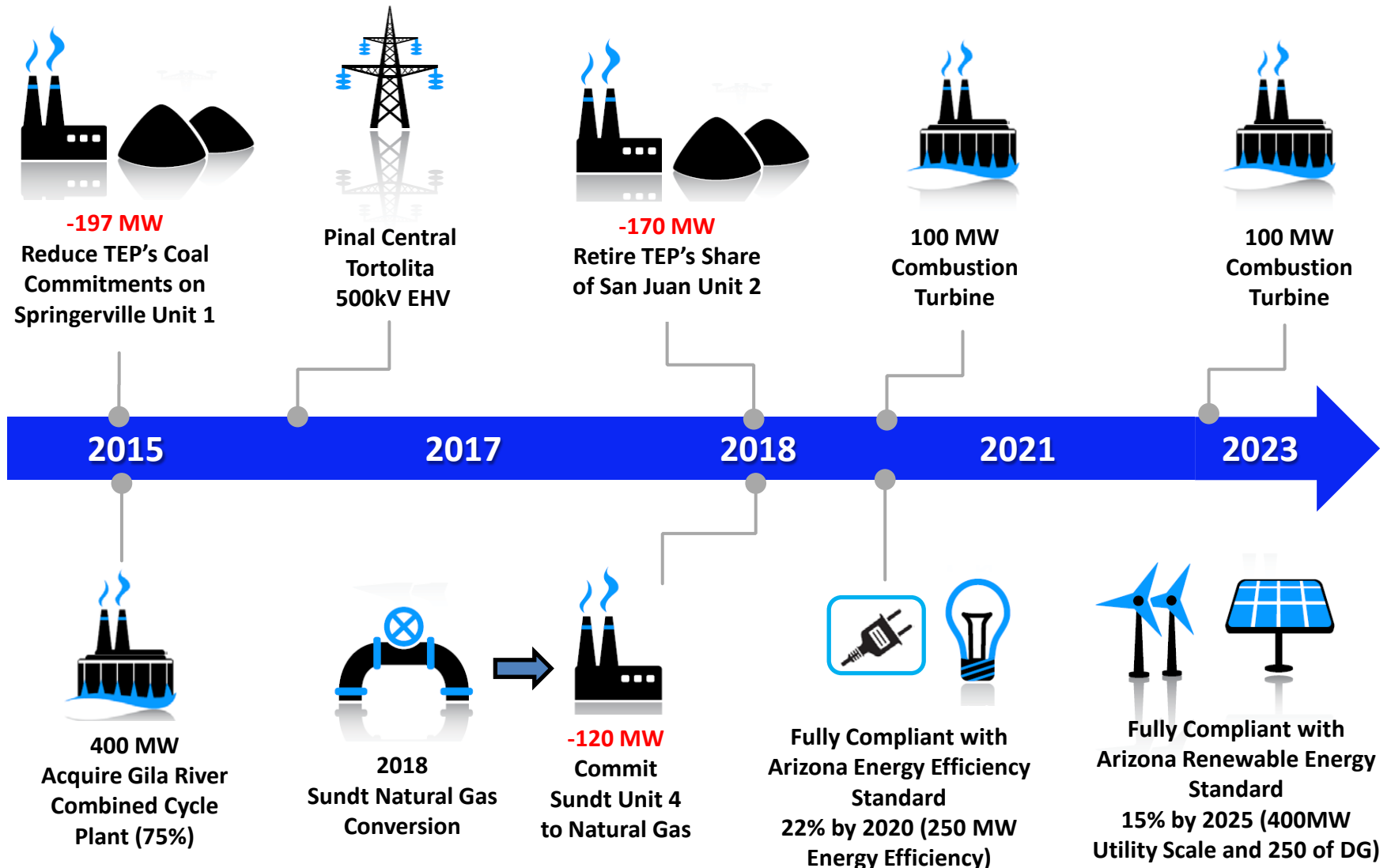
Approximately 9,000 MW of coal fired capacity is currently on-line in Arizona and New Mexico.

- ☐ San Juan U2 – 170 MW reduction by 2018
- ☐ Navajo – Proposal to shut down one unit by 2020 with no impact to TEP
- ☐ Four Corners – SCR installation by 2018
- ☐ Sundt U4 – Convert to gas by 2018
- ☐ Springerville U1 – Exercised purchase option at 49% of the unit (190 MW)

TEP Loads & Resource Forecast



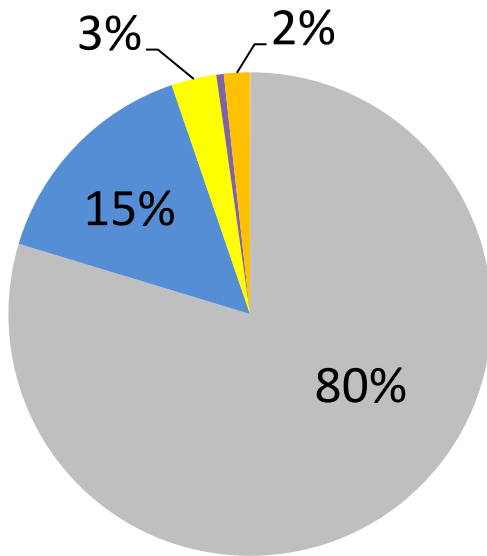
2014 TEP Reference Case Plan



TEP's Evolving Resource Portfolio Energy Mix

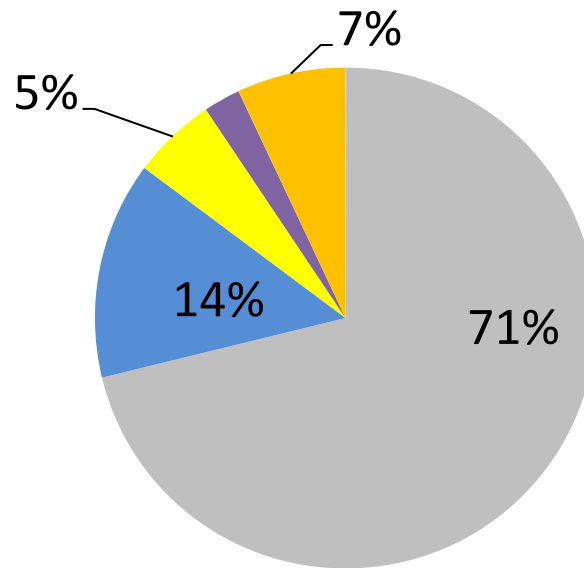
2013

Existing Portfolio



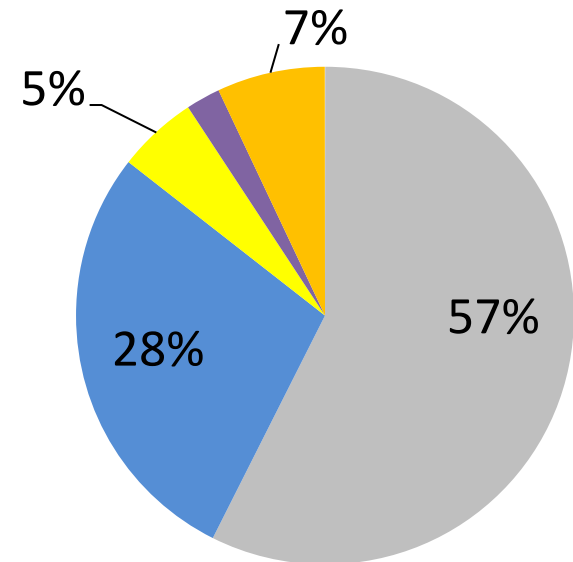
2020

2012 Resource Plan



2020

2014 Resource Plan



■ Coal Generation

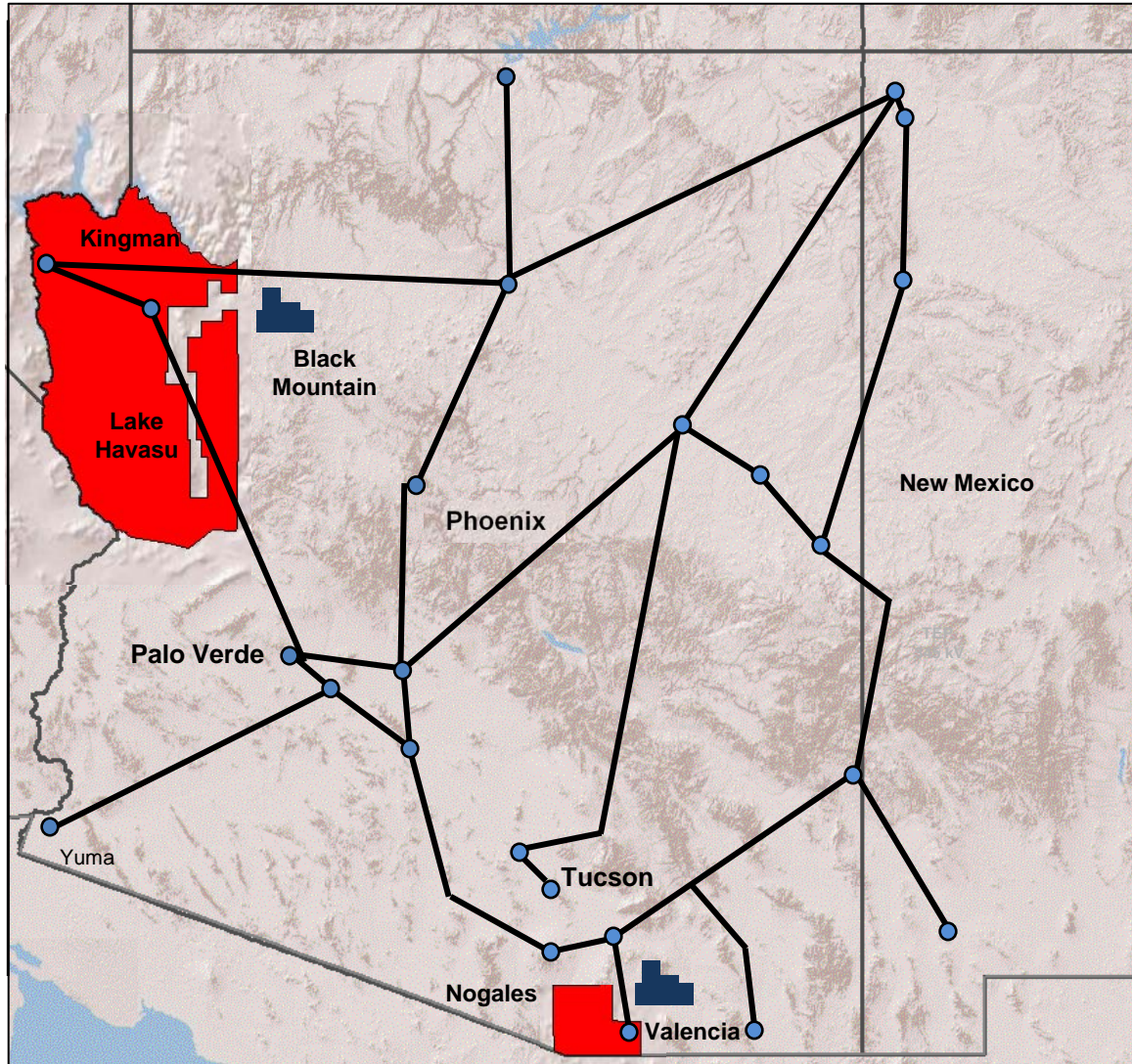
■ Utility Scale Renewables

■ Energy Efficiency Programs

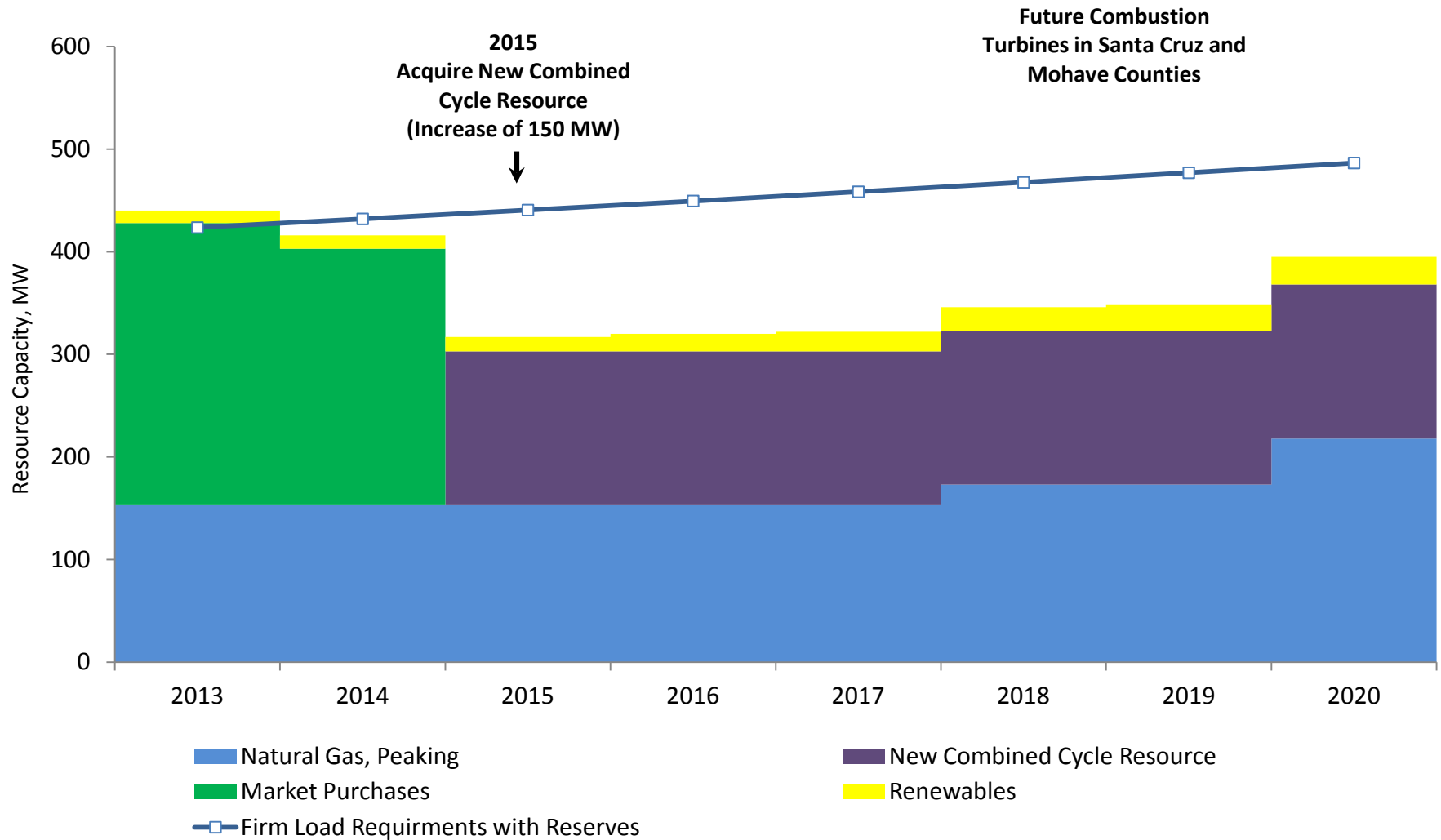
■ Natural Gas/Purchase Power

■ Distributed Generation Resources

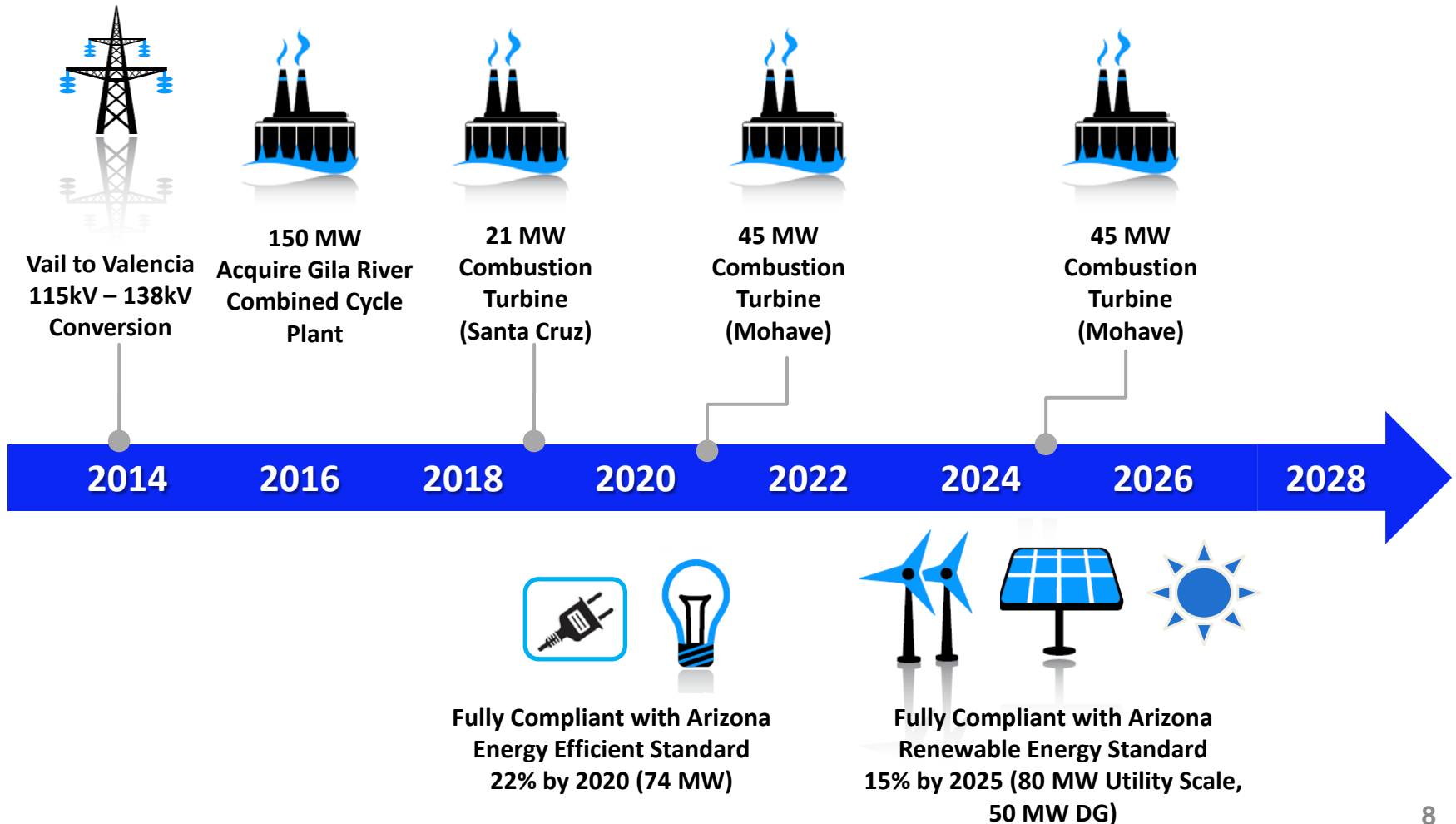
UNSE Generation Resources & Service Area



UNSE Loads & Resource Forecast



2014 UNSE Reference Case Plan



2016 IRP and 111(d)

