

APS Integrated Resource Plan

Mike Eugenis, Manager, Resource Planning



COMMITTED TO A **CLEAN ENERGY FUTURE**



Palo Verde Generating Station, the nation's largest clean-energy producer, is the foundation for our carbon-free energy future.

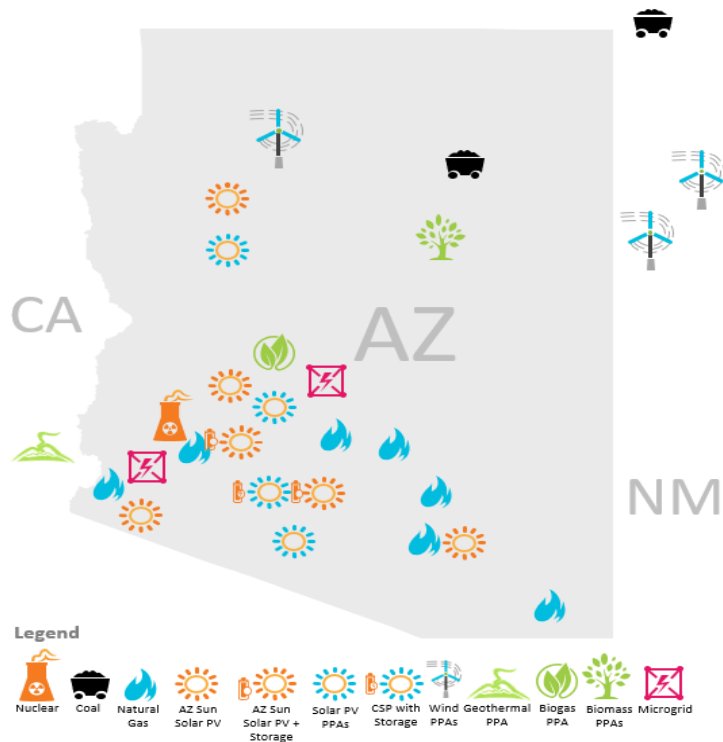


Investments in solar, wind and energy storage are vital—as are continued advances in energy technology and efficiency.



Collaboration with customers, regulators and other stakeholders is key to our plan's ultimate success.

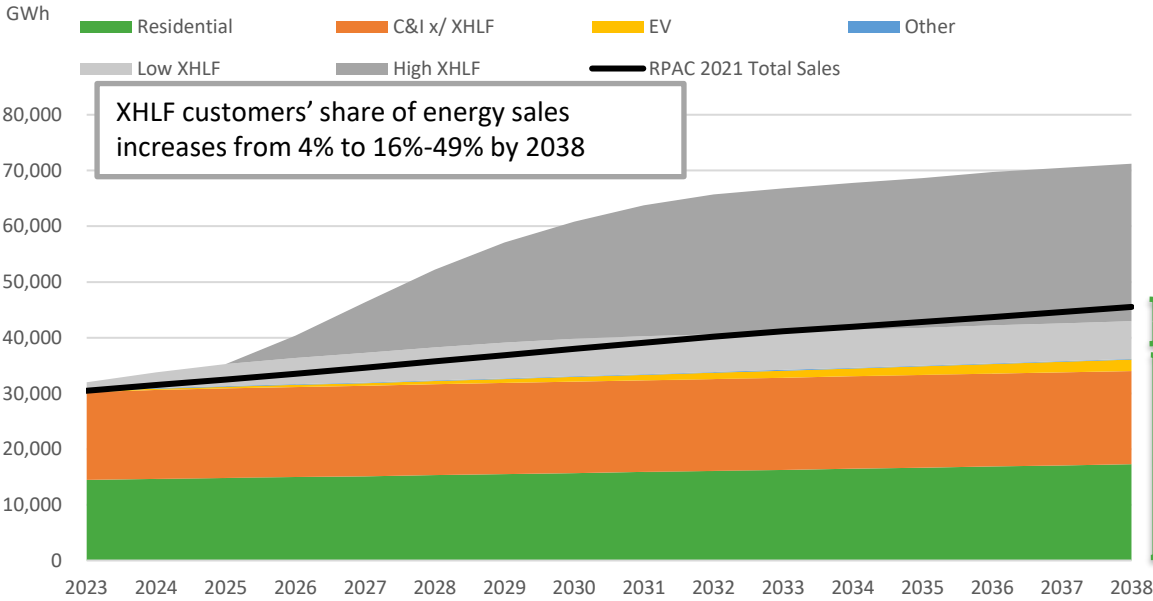
2023 APS Resource Diversity



	PEAK CAPACITY	NAMEPLATE CAPACITY
Nuclear	1,146	1,146
Coal	1,347	1,347
Natural Gas	5,120	5,239
APS Owned	3,347	3,466
PPAs	1,773	1,773
Short-term Purchases	713	713
Microgrid (Quick Start)	42	42
Renewables	669	1,440
Solar	439	737
APS Owned Solar	189	378
Solar PPAs	250	359
Wind (PPAs)	147	620
Solar + Storage (PPA)	60	60
Other (PPAs)	23	24
Energy Storage	128	265
Incremental Customer-Based	237	499
Energy Efficiency	132	132
Distributed Energy	9	217
Demand Response	96	123
TOTAL	9,402	10,292

Sales Forecast Update

RPAC 2022 Sales Forecast (GWh)



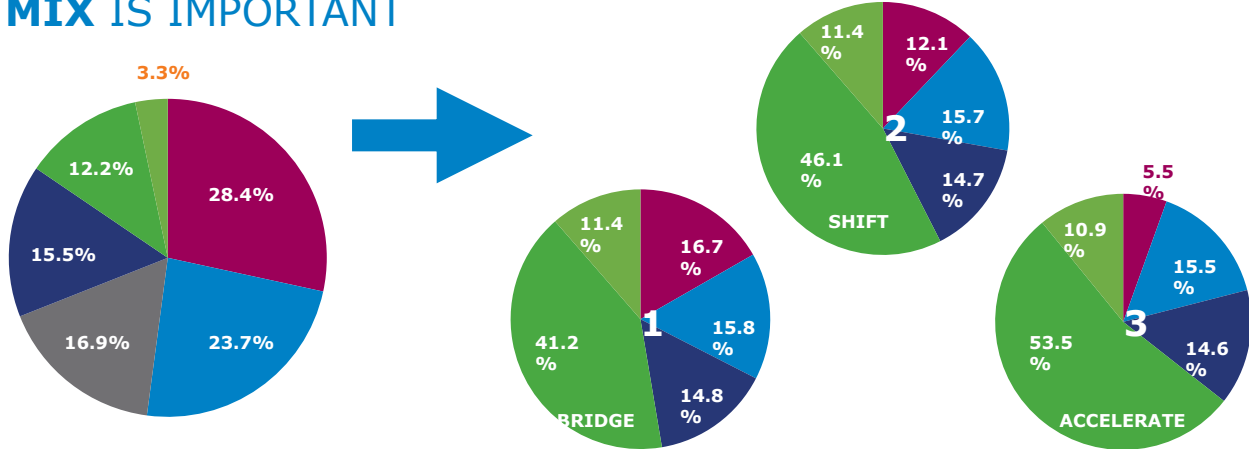
Large projected load increase due to prospective datacenters and large manufacturing

High XHLF: an increase of 28,000 GWh by 2038 vs Low XHLF based on prospective XHLF customers (probabilistic approach)

Low XHLF: close to 2021 RPAC, based largely on existing customers

Slight net decrease among residential and C&I compared to 2021 RPAC forecast

MAINTAINING A DIVERSE ENERGY MIX IS IMPORTANT



2020 | 30,460 GWh

2035 | 44,678 GWh



Natural Gas



Nuclear



Coal



Demand Side Mgmt.



Renewables



Purchase

Source: 2020 IRP, Pg. 136 & 138

Customer to Grid Solution

Judson Tillinghast, Manager,
Customer to Grid Solutions



OUR STRATEGY

CLEAN



AFFORDABLE



RELIABLE



**CUSTOMER
CENTRIC**



ELECTRIC VEHICLES

Providing EV charging equipment to
businesses, government agencies, non-
profits and multi-family communities

161 sites completed

Rapid charging sites



COOL REWARDS PROGRAM

In partnership with our customers



Customers get a \$35 annual participation credit and can save up to \$115 with rebates and special offers through APS Marketplace



APS adjusts thermostats by a few degrees on the hottest days (<20 days per year)



Small adjustments over 70,000 thermostats is like harnessing the power of a small power plant



Goal of 100,000 thermostats by end of 2023



COMMUNITY PARTNERSHIPS



Phoenix



Tempe



Flagstaff

KEEPING IT **RELIABLE**



Solar Programs



Battery Storage



Microgrids



EV Fleet