

CITY OF MESA

INTEGRATED RESOURCE

PLAN

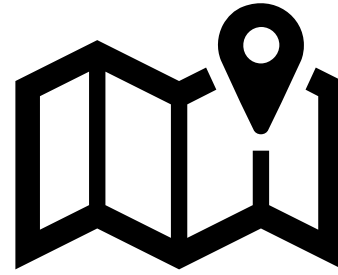
1/23/2025

SCOTT BOUCHIE
ENERGY AND SUSTAINABILITY DIRECTOR

ANTHONY CADORIN
ENERGY RESOURCES PROGRAM MANAGER



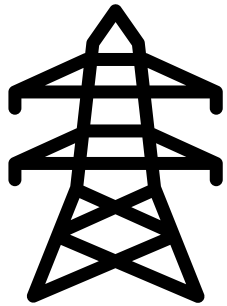
18,118 Customers



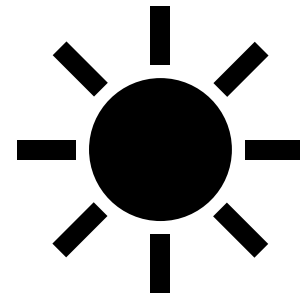
5.5 Square Miles



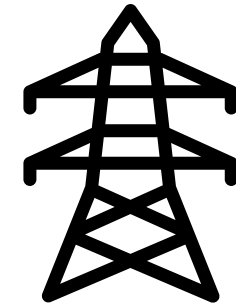
2,355 Days No Lost
Time Accidents



86.3 / 92.3 MW
Peak Demand



215 Solar Customers
2.3 MW



318,379 MWh
Of Energy Sales



INTEGRATED RESOURCE PLAN?

- Requirement for receipt of federal hydropower
- Required evaluation of “non-conventional” resources
- 5 Year Cycle
- Intention not prescription

IMPORTANT CHANGES SINCE 2019 IRP 4



SRP Renewable Energy Project

Customer Solar

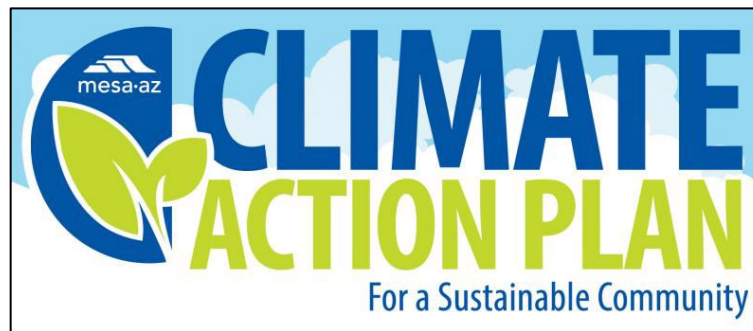


From 845 kW to 2.3 MW

Downtown Solar 1

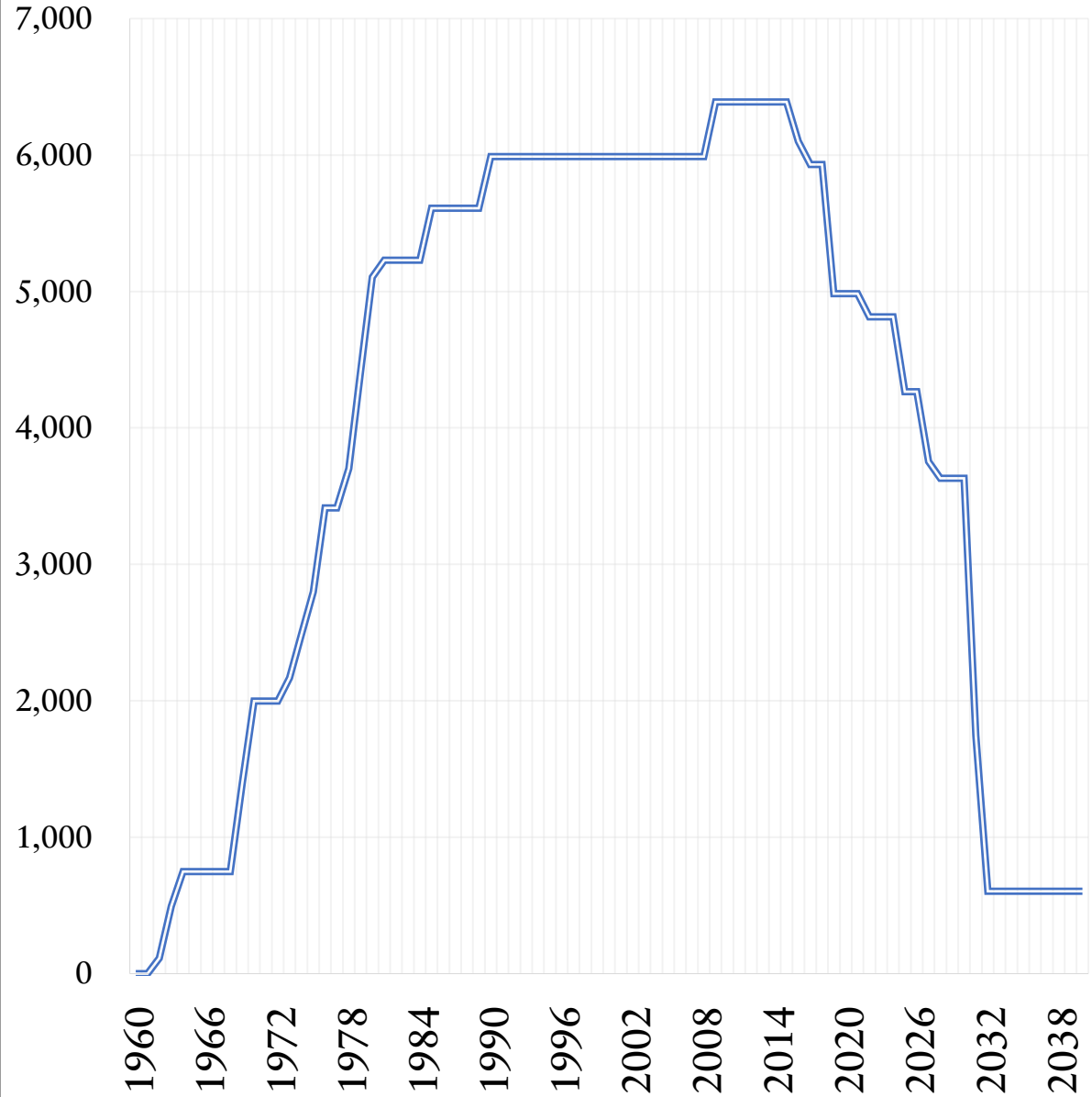


804 kW

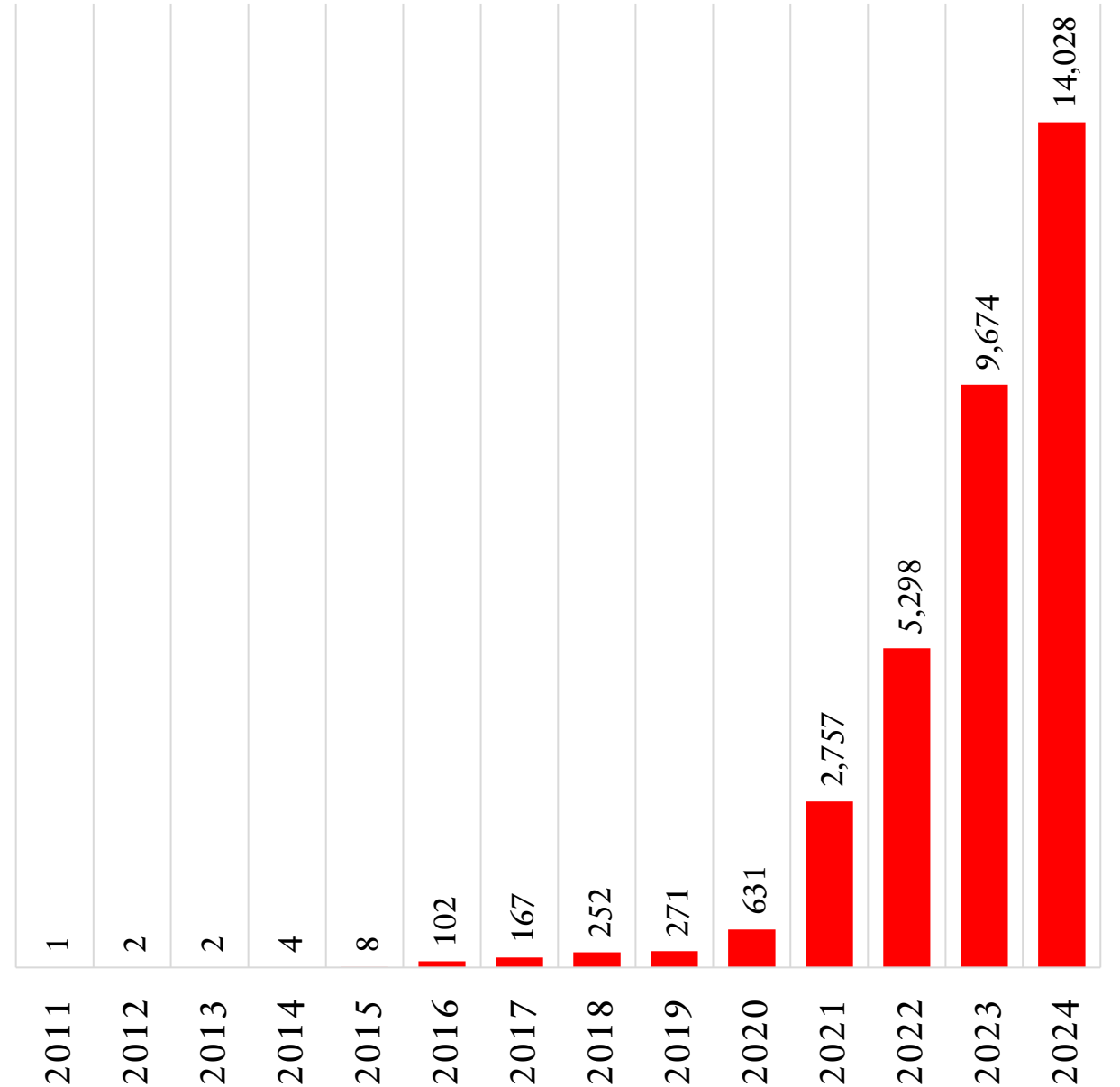


Multiple Projects Pending

ACTIVE COAL CAPACITY (MW), ARIZONA ENTITIES

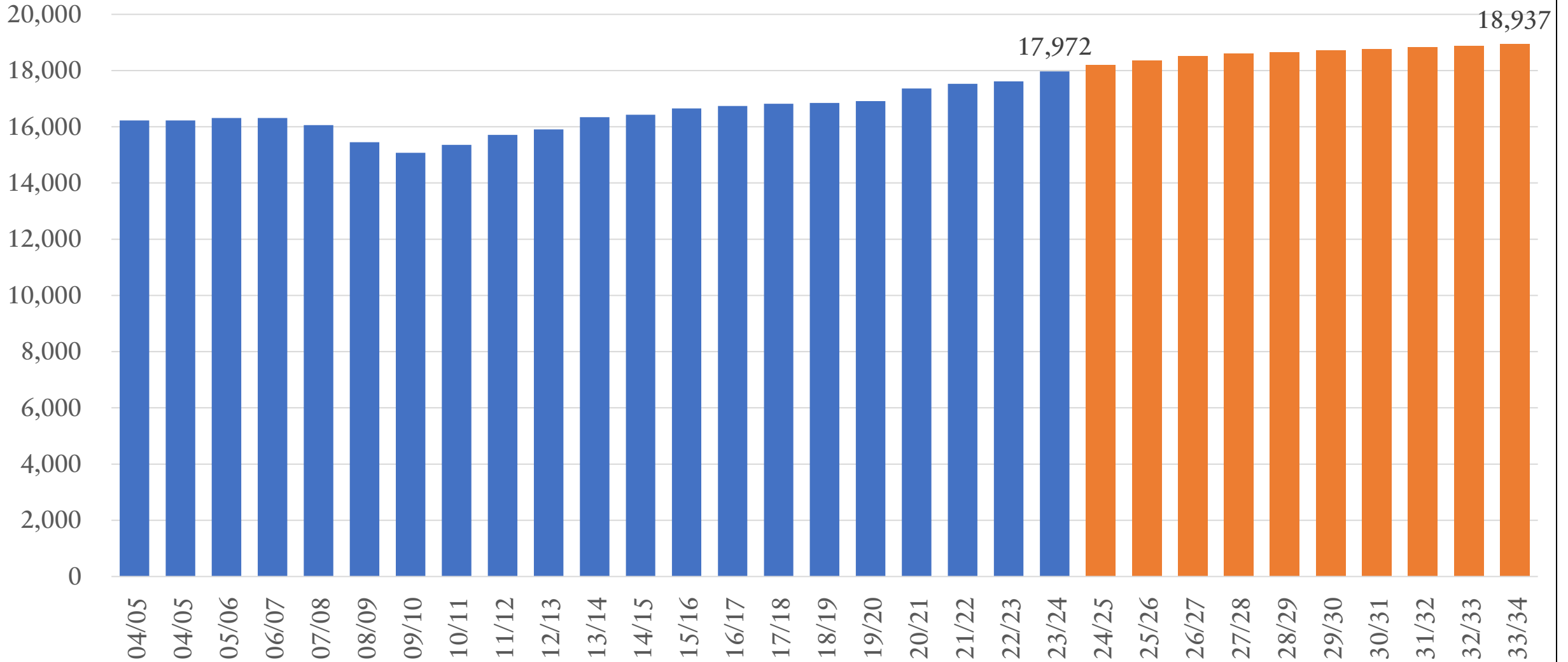


OPERATING BATTERY CAPACITY, AZ, NV, CA, NM, UT (MW)

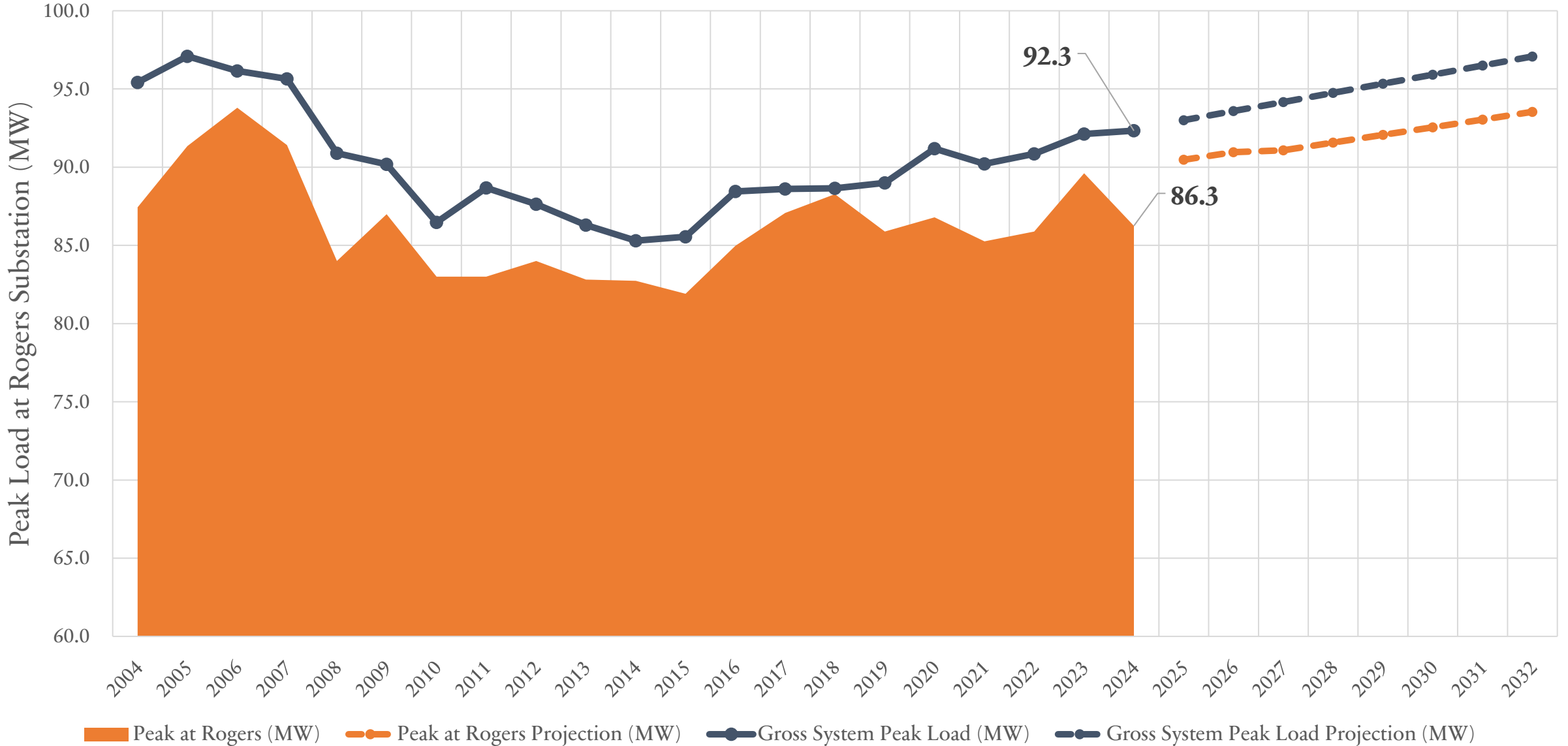


FORECASTING - CUSTOMERS

Annual Customer Count



FORECASTING - DEMAND

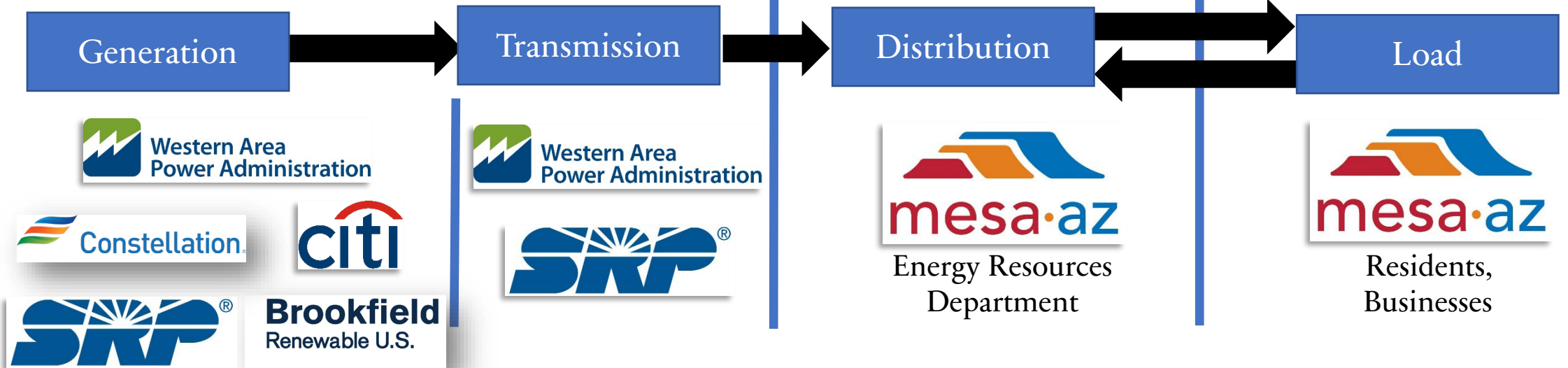


RESOURCE OPTIONS



- Conventional Market Purchased Power
- Owner (%) Participation or PPA
 - Wind Farms
 - Solar Farms
 - Conventional Resources
 - Hydroelectric Resources
 - Large Storage Projects

- Sole Owner or Power Purchase Agreement
 - Solar
 - Natural gas generators
 - Energy storage

- Demand Side Management (DSM)
 - Customer owned generation
 - Customer-owned storage
 - Energy efficiency & conservation



PUBLIC INPUT SURVEY

Priority	Aggregate Rank Score	
Cost	1.87	\$
Reliability	1.95	
Environmental	2.05	

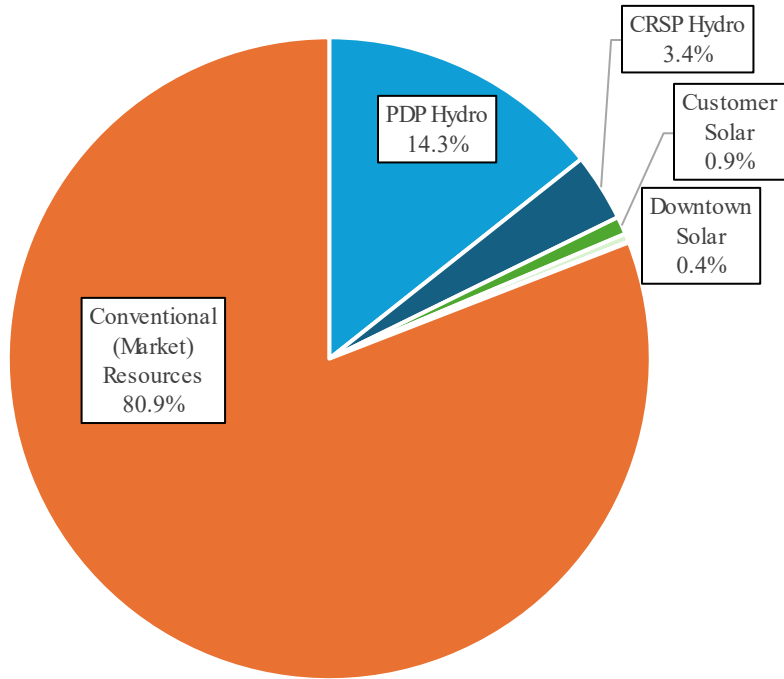
Permissible Utility Bill Increase to Support Renewable Resources	% of Respondents Willing to Pay the Increase
No Increase	32.9%
1-2% Increase	28.7%
2-5% Increase	19.5%
5-10% Increase	8.4%
10-20% Increase	5.4%
20-40% Increase	2.4%
Maximize my Renewable Resources	3.0%

PROPOSED ACTION PLAN

- Increase Competition for Mesa's Business
- Minimize Exposure to Volatile Market Pricing
- Reduce the Risk of Loss of Power at Rogers
- Leverage Mesa's Natural Gas Utility
- Leverage Mesa's available Land Resources
- Seek Economical Utility Scale Renewable Energy Resources
- Seek Economical Utility Scale Conventional Resources

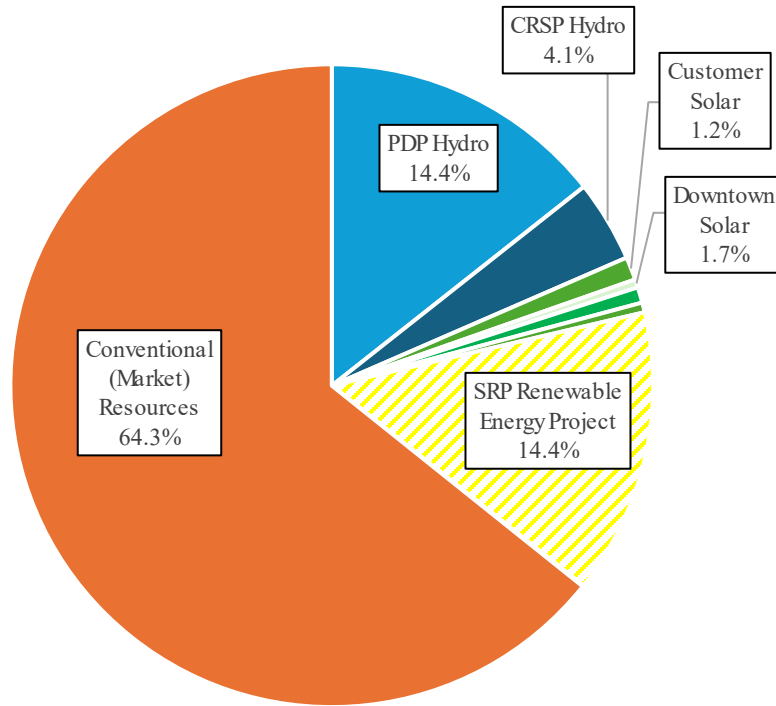
- Leverage Mesa's New AMI
- Leverage Customer's Preferences for Sustainable Resource Choices
- Leverage Mesa's Transition to Electric Vehicles
- Leverage Mesa's District Cooling Utility
- Leverage Mesa's Status as a Tax-Exempt Entity
- Leverage Mesa's Status as a Federal Hydroelectric Power Generation Preference Customer

PAST
FY23/24



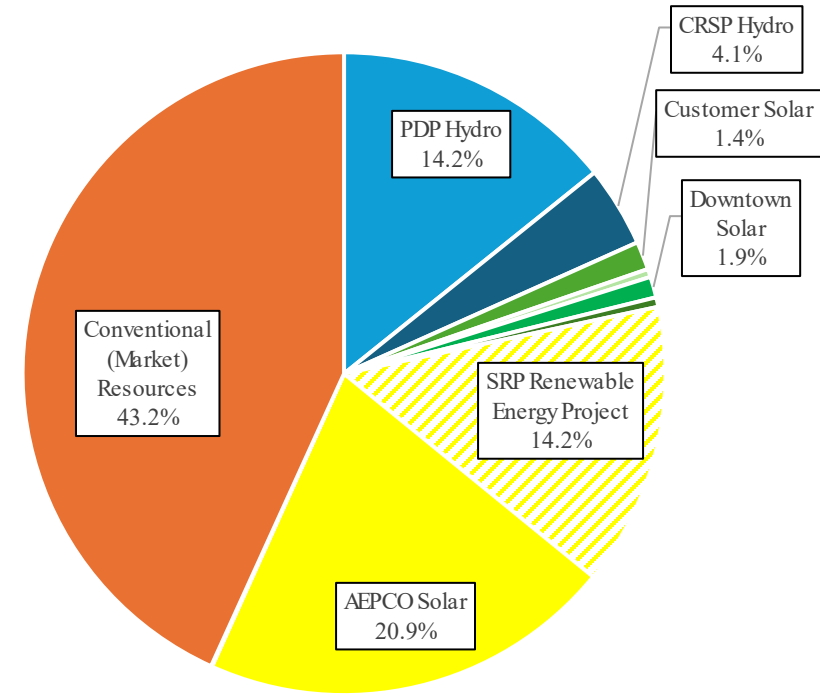
19.1% Renewable

PRESENT
CY25



35.7% Renewable

FUTURE
FY26/27



56.8% Renewable

EXPECTED RESOURCE OUTCOMES

- Work towards a second feed strategy
- More suppliers enabled
- Optimization of Transmission Rights
- Evaluation of available land resources for use in energy projects
- Completion/conclusion of in-process projects
- Evaluation of additional time of use rates
- Continued joint action with other utilities
- Continuation and continued evaluation of Mesa's customer programs



QUESTIONS?