



MEETING AGENDA



Welcome & Meeting Agenda Adam Constable APS



All-Source RFP Update
Jill Freret / Mike Eugenis
APS



Large Customer Subscription
Program Update
Patrick Bogle
APS



Break



2026 IRP Resource Pricing Mike Eugenis APS



Load Forecast Update Ross Mohr APS



Next Steps & Closing Remarks
Adam Constable
APS



Meeting Guidelines



RPAC Member engagement is critical. Clarifying questions are welcome at any time. There will be discussion time allotted to each presentation/agenda item, as well as at the end of each meeting.



We will keep a parking lot for items to be addressed at later meetings.



be posted to the public website along with pending questions and items needing follow up.
We will monitor and address questions in a timely fashion.



Meetings and content are preliminary in nature and prepared for RPAC discussion purposes.





September Meeting Recap

- APS kicked the meeting off by sharing an update on current procurement activity.
- APS announced that Derek Seaman accepted another position within the company, and that Jill Freret, the new Director of Resource Acquisition, will manage the RFP process.
- APS presented its updated clean energy objective and invited feedback from the RPAC.
- APS shared initial findings from its most recent resource adequacy study.
- APS provided an overview of the process that led to the decision to sign a contract for Transwestern's Natural Gas Pipeline Expansion project.
- Following the September RPAC, APS held a follow-up meeting to continue the Transwestern natural gas pipeline conversation on September 24th.



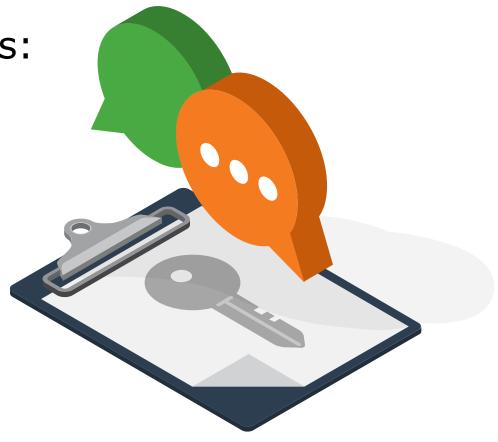
Following Up

Action Items from Previous Meetings:

- 2026 IRP Timeline
- Resource Adequacy Study ELCCs

Ongoing Commitments:

- Distribute meeting materials in a timely fashion
- Transparency and dialogue
- Respectful participation by all participants







All-Source RFP (ASRFP) Overview

2024 ASRFP

- Sought 2 GW of resources
- · Final negotiations are ongoing

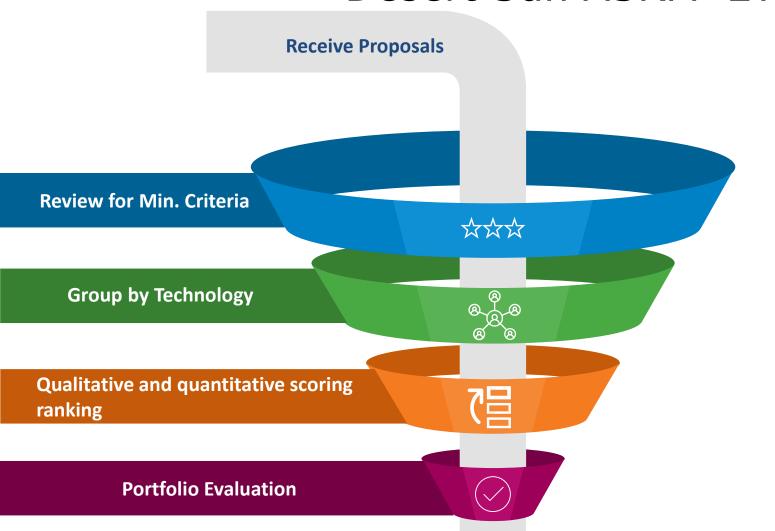
Upcoming ASRFP

- Resource need is still being determined but will likely be close to the 2024 ASRFP in scope
- Seeking resources in:
 - Near term (2029 2031)
 - Mid to long-term (2031+)
- Specific developments will be identified for APS ownership





Desert Sun ASRFP Evaluation



Desert Sun Power Plant

- October 30th, APS announced plans to develop a site west of Gila Bend, Ariz., capable of adding up to 2,000 megawatts (MW) of reliable, flexible generation to the state's energy portfolio.
- Firm, dispatchable resources continue to provide value into the future.
- Process will look similar to other resource development at APS sites.

Notes

- Key project metrics are reliability, customer cost, and resource diversity.
- Proposals are compared against similar technologies to arrive at shortlisted bids.
- All technologies compete to maintain reliability at least cost for customers.
- All relative costs, inclusive of fuel, are included in the portfolio analysis.



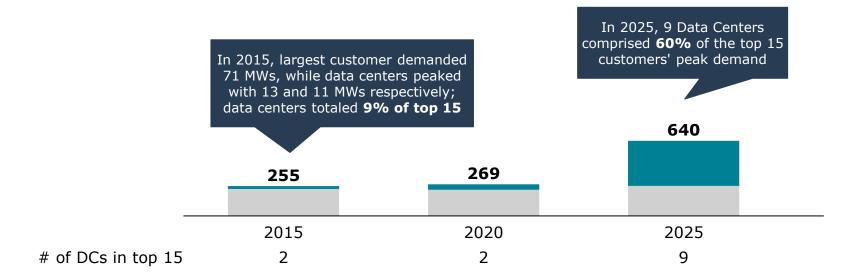
Large Customer Subscription Program Update
Patrick Bogle, APS



Our top customers sites are dramatically changing in terms of type, size, and scale.

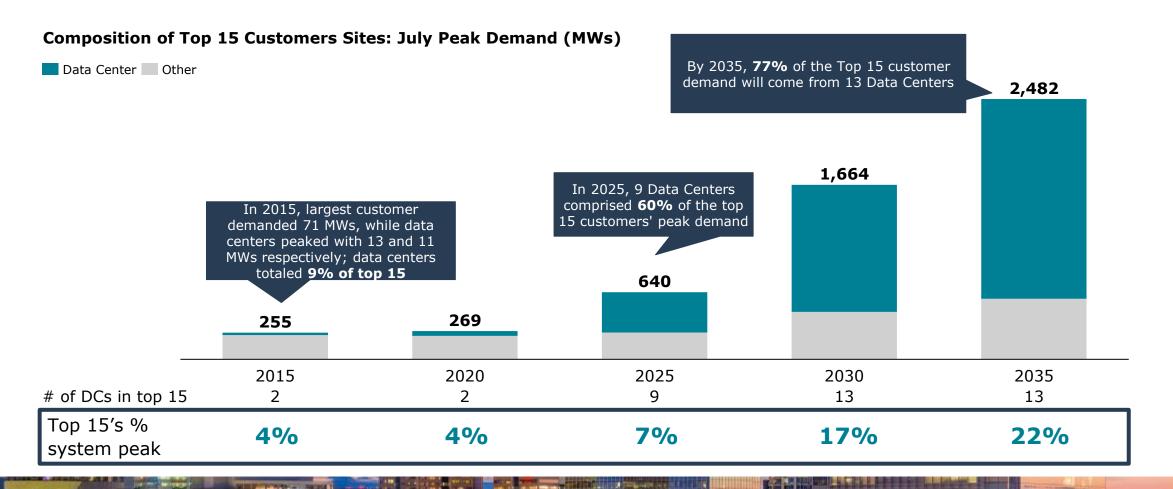
Composition of Top 15 Customers Sites: July Peak Demand (MWs)







We have hit the tipping point in which data centers will challenge every aspect of our business.





We have a large opportunity with Nearly 19GW of requests in the uncommitted queue.

APS Peak Demand (GW)

Serving the entire uncommitted queue would more than double today's peak demand

12.0 GW

8.7 GW

2025 Peak Load

2035 Forecasted Peak Load

19.0 GW **Uncommitted Queue**



We know that not all of the Queue will materialize, and that there are duplicative requests

EXAMPLE CASE STUDY:

MICROSOFT Microsoft brings that bid to market In our queue, that load could **Microsoft wants 500MW** through co-locators and also comes to show up multiple times **APS** directly Co-locator A **Uncommitted** queue **Co-locator B Hyperscaler −** 500MW → ~19GW **Co-locator C**



Data center customers have significant differences from other types of customers we serve.



Forecasting and commitment challenges



Operate 24/7/365



Require significant infrastructure



Long lead times and cost intensive



We have established guiding principles in serving data center load.





We have two pathways to serve data center customers



Extra High Load Factor [XHLF]
Tariff with Load Commitment
Agreement

Fully **assigns all incremental costs** required to serve the customer classes causing growth, protecting against cost shifts

2

Subscription Model

Delivers service to large scale customers more efficiently through bilateral agreements; customers share risks in exchange for speed to market



Our service offerings for large load customers will continue to evolve.

Standard offer...

Innovative new offering...

How we procure

How we recover & finance

How we select customers

Extra High Load Factor (XHLF) Tariff

- Forecast load, procure resources, and allocate capacity based on system excess
- Traditional ratemaking, exposed to rate case cycles and regulatory lag
- APS finances 100% of development
- Prioritize customers based on queue position and location

Subscription Model

- Create a portfolio of incremental resources to serve requirements of large loads
- Contract set outside of the rate case
- Accelerated customer payments finance new development
- Select customer who provides the best risk protections for APS and existing customers



Based on customer feedback, we have developed an innovative product offering to meet their needs.



Speed to Service

Accelerated timeline to provide up to 1.2 GW of service, with a target ramp beginning in 2028



Limits impact to APS balance sheet and puts development risk on customer



This first offering is expected to be the first of many

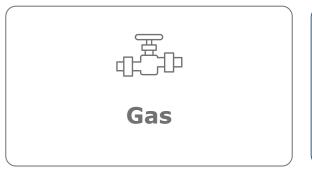


We have launched our first offering; it will be the first of many.

Key Contract Terms

- Customers will commit to a 20-year term of service with service tied to asset development
- Customer provides accelerated capital to ensure APS financial metrics remain healthy
- Capacity style payment structure ensures cost recovery of investments regardless of usage
- High standards for creditworthiness and contract minimums ensure protections for APS

Our first offering serves up to 1.2GW of load with service targeted to begin in 2028 from a diverse portfolio











The process around the Subscription Model is just beginning to take shape.

September-November 2025

Early 2026

August 2026

2028+

Initial Subscription Offering

We have announced our first offering to accelerate service through our new model. Customers are solicited for service requests



Contract finalized

Contract executed with customer(s) to deliver 1.2 GW of service



ACC approval

Commission approval of the Subscription Model to unlock customer commitments



Service ramps

Energization targeted to start in 2028, with full service in early 2030s







Time for a Break



Break Duration 5 min.

Meeting will resume at | hh:mm:ss





Future resource cost assumptions are primarily determined from publicly available sources

National Renewable Energy Laboratory (NREL)				
Nuclear - Large				
Nuclear - Small				
Natural Gas CC Retrofit CCS (95%)				
Concentrated Solar Power				
Utility Scale Solar Power				
Wind				
Geothermal				
6hr Utility Scale Battery Storage				
8hr Utility Scale Battery Storage				
Pumped Storage – Hydropower				

Hybrid of Industry Materials

Natural Gas CC

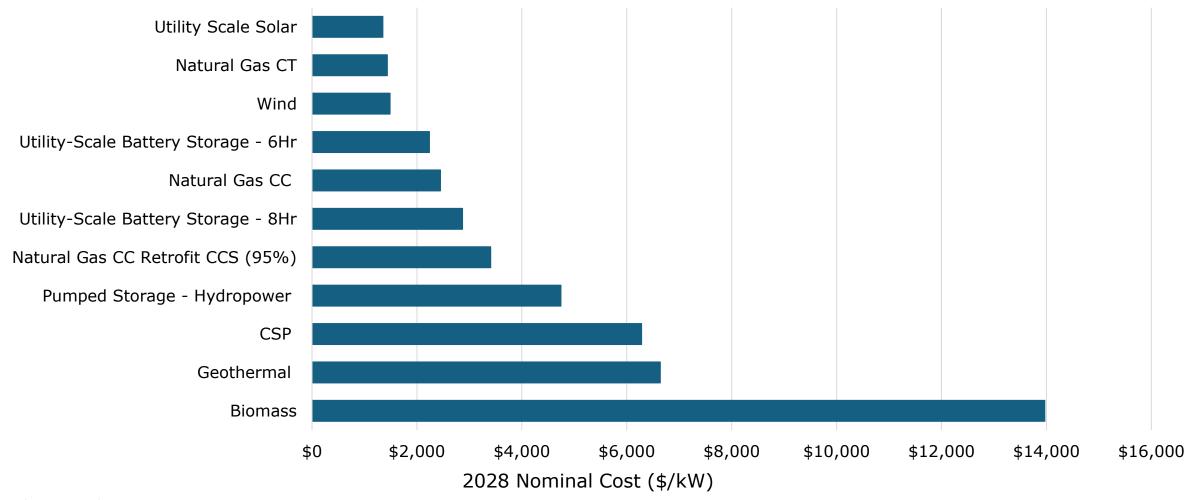
Natural Gas CT

Energy Information Administration (EIA)

Biomass



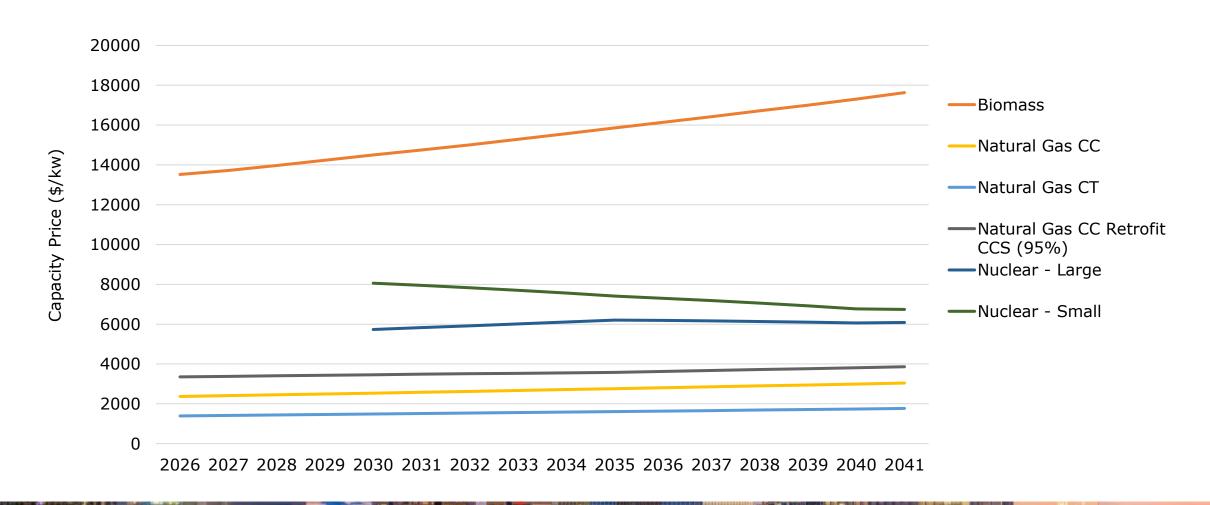
2028 New Resource Capital Costs



*Cost data is preliminary in nature

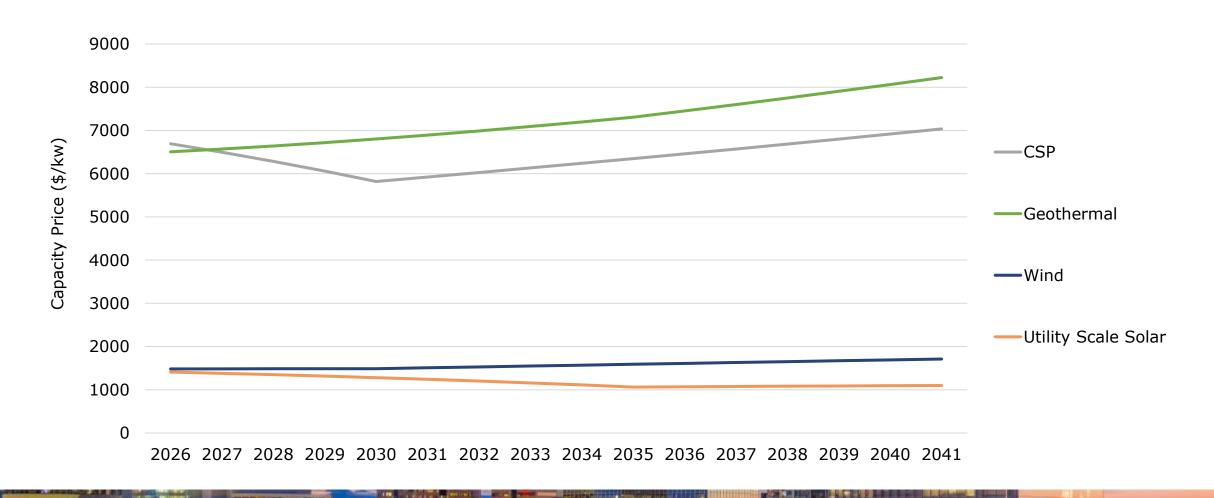


New Resource Capital Costs by Year - Thermal



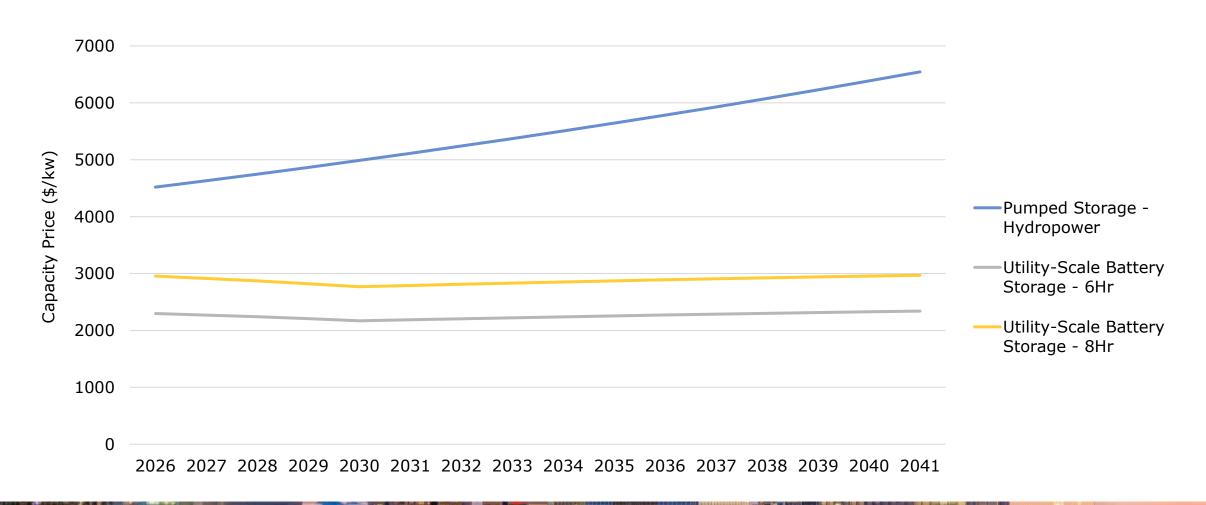


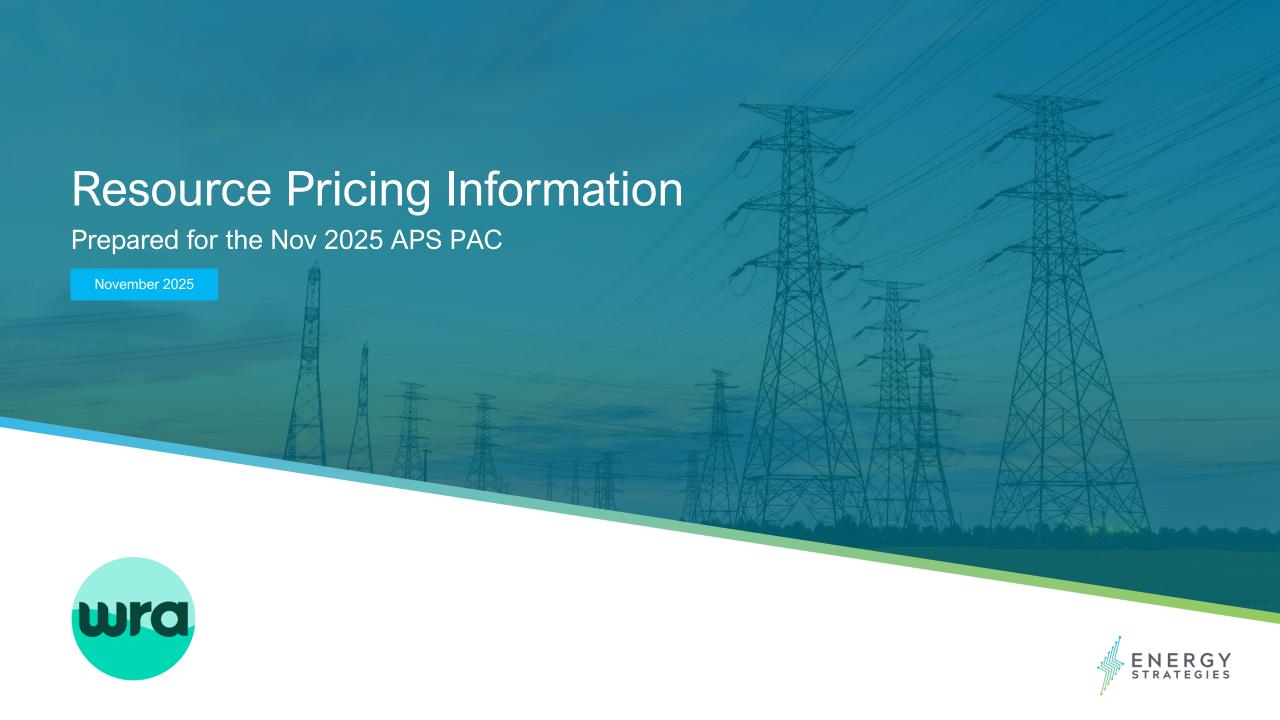
New Resource Capital Costs by Year – Renewable





New Resource Capital Costs by Year – Energy Storage



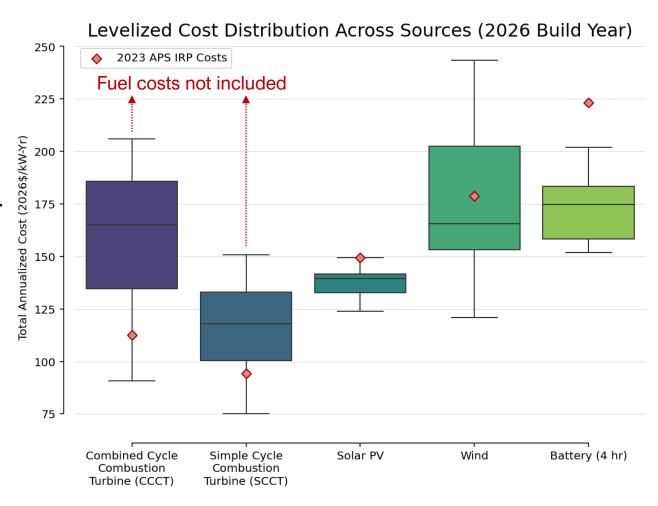




Comparing Resource Costs

- Capital and fixed O&M costs are key inputs to the long-term capacity expansion models that inform resource planning
 - Recent shifts in policy, tax incentives, supply chains, and technology maturity have complicated resource cost estimates
- We reviewed 9 costs sources including utility IRPs in the west and benchmarking reports like the NREL ATB and Lazard's
 - Sources cited suggest CT costs have increased by 20-30% since estimates in the 2023 APR IRP
 - Alternatively, source cited suggest solar, wind, and storage costs have fallen by 10-50%

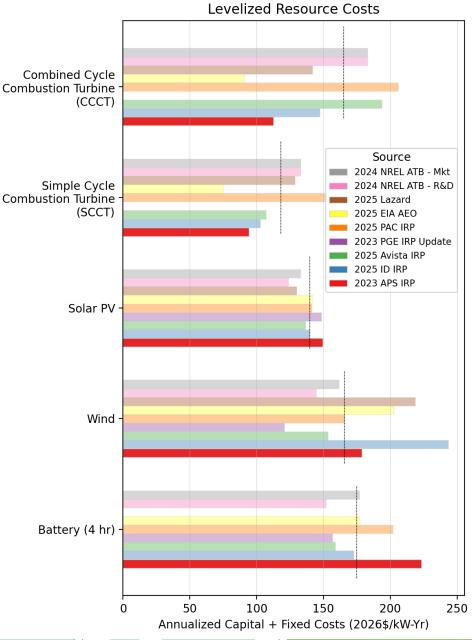
Sources Cited				
2024 NREL ATB – Market	2025 Pacificorp IRP			
2024 NREL ATB – R&D	2023 PGE IRP Update			
2025 Lazard's LCOE+	2025 Avista IRP			
2025 EIA AEO	2025 Idaho Power IRP			
2023 APS IRP				





Annualized Cost by Source

- Using publicly available data, we calculated the annualized cost of each new resource
 - Capital costs amortized at the source's capital recovery factor
 - Fixed costs assumed from source documentation
 - All costs inflated to a common 2026\$ year
 - Note: This analysis does not capture variable costs
- This levelized resource cost offers an approximate applesto-apples look at building these new resources
 - The APS 2023 IRP values are shown in red relative to the 8 other sources reviewed
 - The vertical dashed line in each cluster represents the median cost of the population
 - Note: Missing bars reflect resources that were not considered by the constituent source (e.g. the 2023 PGE IRP Update did not consider CT resources)
 - Missing bars are not included in calculation of the median cost





2026 IRP Resource Pricing Stakeholder
Discussion





Residential Customers and Data Centers Drove the Return to Strong Load Growth

	2015	2020	2025	20
Retail Customers (000s)	1,177	1,289	1,432**	
Retail Sales* (GWh)	27,959	28,401	34,001**	
Peak Demand (MW)	7,031	7,660	8,631	

CAGR 2015-2020	CAGR 2020-2025
1.8%	2.1%
0.3%	3.7%
1.7%	2.4%

^{*} Weather normalized

^{** 2025} values based on midpoint of Q3 earnings guidance ranges for 2025 growth: 2.0-2.5% for customers and 4.0-6.0% for sales



2026 IRP Load Forecast Summary

- Energy Sales (GWh) projected to grow to 59,800 GWh in 2041
 - Growth of 24,100 GWh during 2026 IRP period (67% total growth)
 - Data centers and large new industrial (XHLF) accounts for 76% of growth
 - XHLF: "Extra High Load Factor" customers operate near peak demand 24/7
 - Electric vehicle charging accounts for 13% of growth
 - The remaining 11% of sales growth is driven by strong customer growth, partially offset by declining use per customer
- Peak Demand (MW) projected to grow to 11,700 MW in 2041
 - APS set a new all-time peak demand of 8,631 MW on August 7th

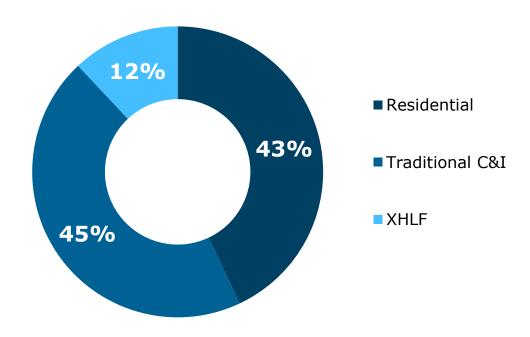
Average Annual Growth Rates For the 15-Year Planning Period	Customers	Retail Sales (MWh)	Peak Demand (MW)
2023 IRP (2023-2038)	1.5%	4.0%	2.4%
2026 IRP (2026-2041)	1.6%	3.5%	2.0%



The Load Forecast Roadmap

- Economics
- Customer Counts
- Weather: rolling 10-year average
- Customer Class Loads: Residential, C&I, XHLF,
 EV charging
- Load Reductions:
 - Rooftop solar (DG Distributed Generation)
 - Energy Efficiency programs (EE)
- Peak Demand and 8760 Forecast

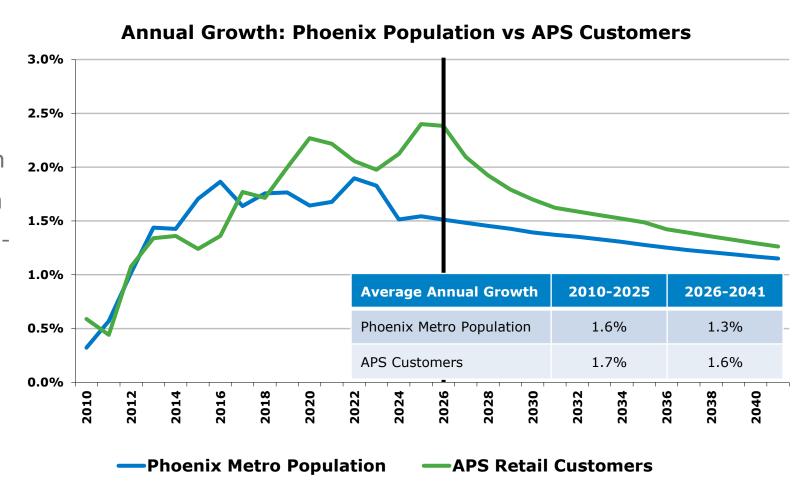
2025 Sales by Customer Class





Customer Growth Supported By Population Growth

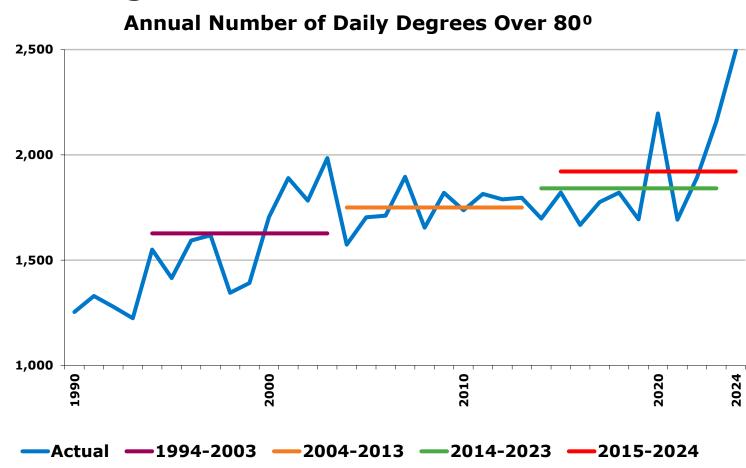
- Customer growth highly correlated with population growth
- Customer (household) growth
 faster than population growth
 - Primarily a function of longterm demographic trends
 - Declining persons per household over time
 - Increasing share of Metro Population growth in APS territory vs SRP





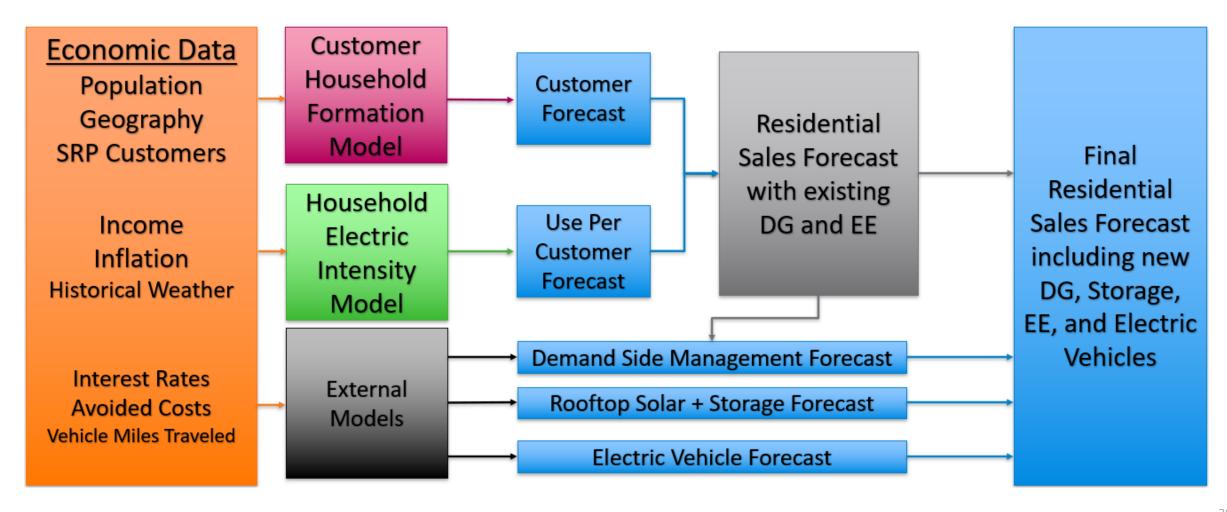
Hotter Weather Increases Load Forecasts and Presents New Challenges for Planning

- Sales forecast level partly
 determined by rolling 10-year
 average weather
- Summer 2024: most days over
 110, most consecutive days
 over 100
- Including 2024 in the 10-year average added roughly 200
 GWh to the sales forecast





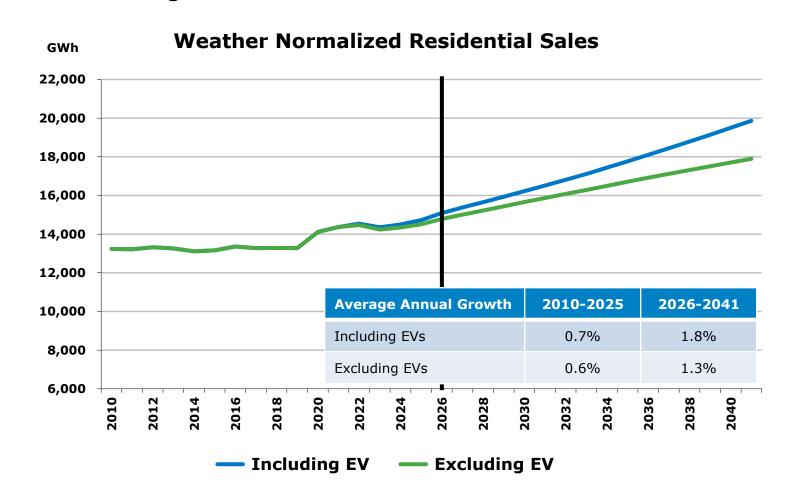
Residential Load Forecasting Approach





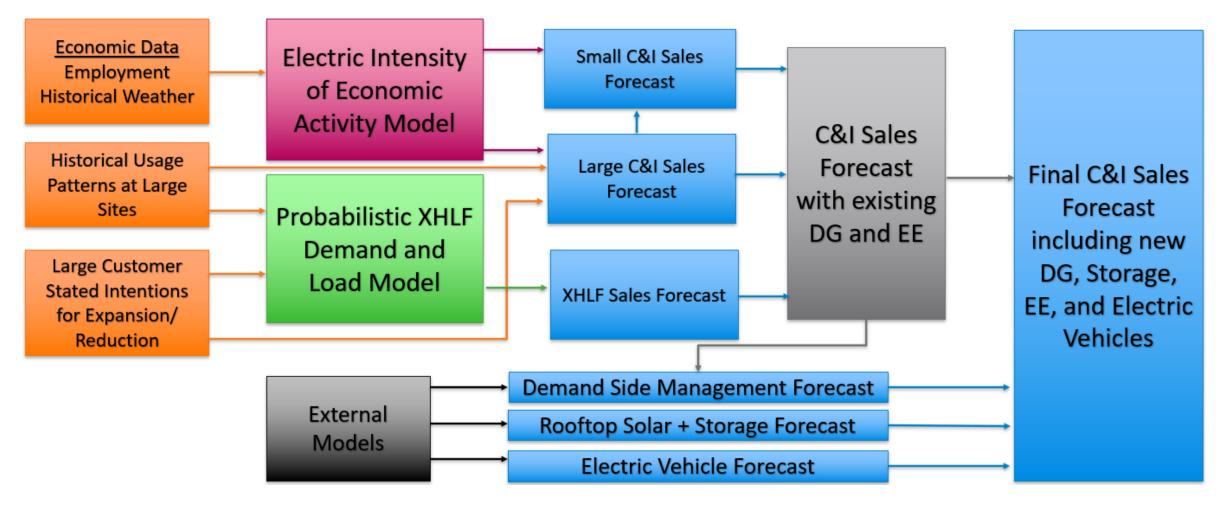
Residential Sales Growth Projected to Continue

- Sales growth ≈ customer
 growth + usage growth
- Sales have increased due to remote work starting in 2020
- Impacts of customer and base usage growth outweigh the savings due to DG and DSM
- EV adoption increase growth an additional 0.5% points





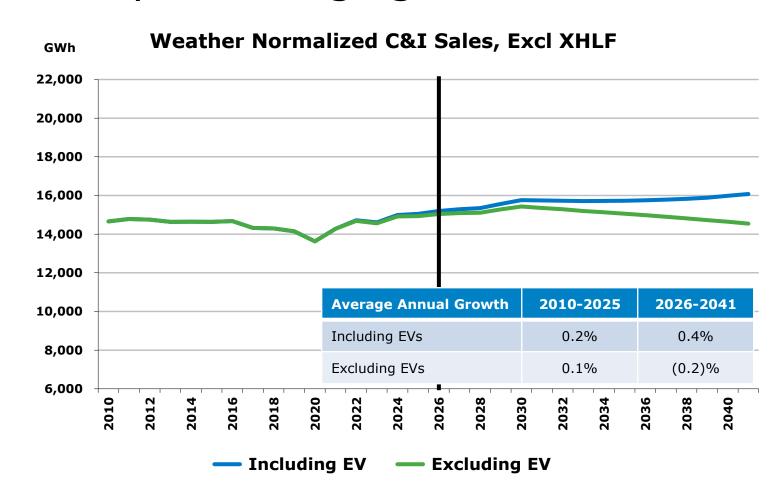
C&I Load Forecasting Approach





C&I Sales Growth Driven By EV Charging

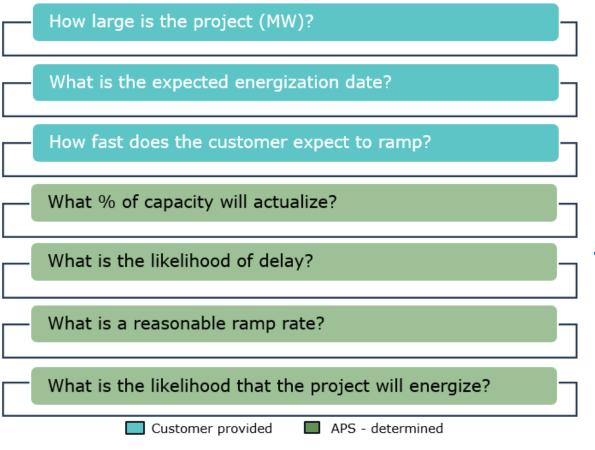
- Population and employment growth lead to C&I growth
- Impacts of customer and employment growth outweighed by savings due to DG and DSM
- EV charging drives positive projected sales growth
- Large C&I customer success stories contribute to growth





XHLF: A New Forecasting Challenge

Key Questions



Main Forecasting Challenge

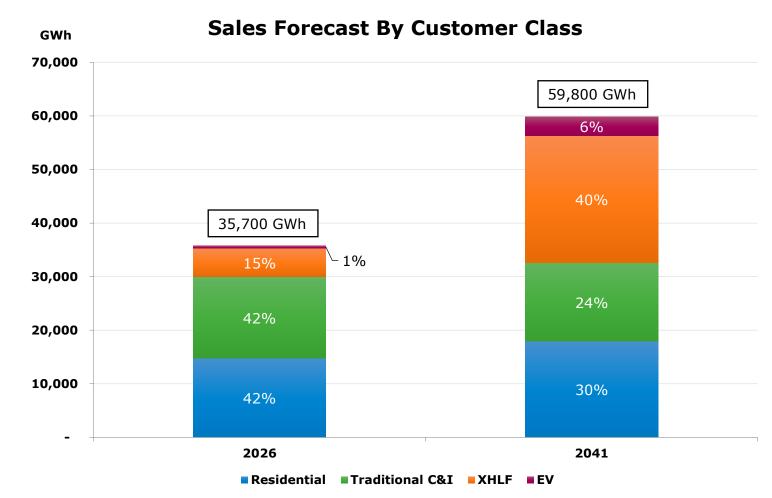
Ensuring resource adequacy, while minimizing financial risk

- Planning for XHLF projects is especially difficult
 - Frequent changes to build-out plans
 - Project start-dates are delayed
 - Ramping of load slower than planned



XHLF Drives Projected Sales Growth

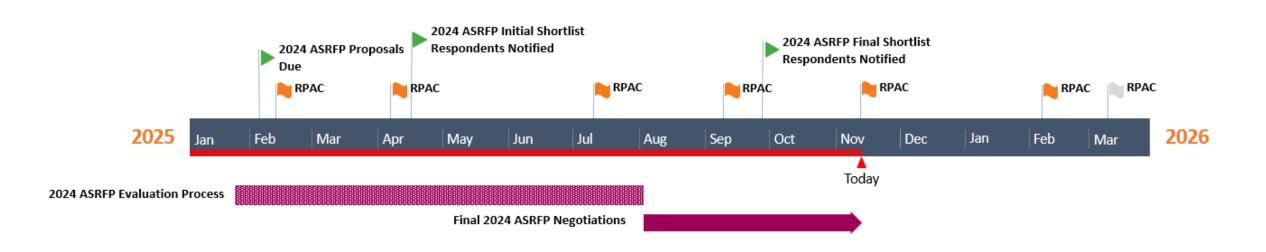
- XHLF sales expected to grow from 15% of sales in 2026 to 40% in 2043
- EV charging projected to comprise 6% of sales
- Core customer sales projected to slightly increase, but their share of sales declines from
 84% in 2026 to 54% in 2041







Forward Plans and Meetings



Key Milestones

February RPAC Meeting: TBD

Time: 10:00 am

(The November RPAC Meeting is the final RPAC Meeting of 2025 - Please reach out to us before the February RPAC Meeting if you have any questions or topics to discuss.)

Notice of Intent for IRP Modeling Licenses:

March 6, 2026

Upcoming ASRFP Release: TBD