

Transforming the Use of Electricity

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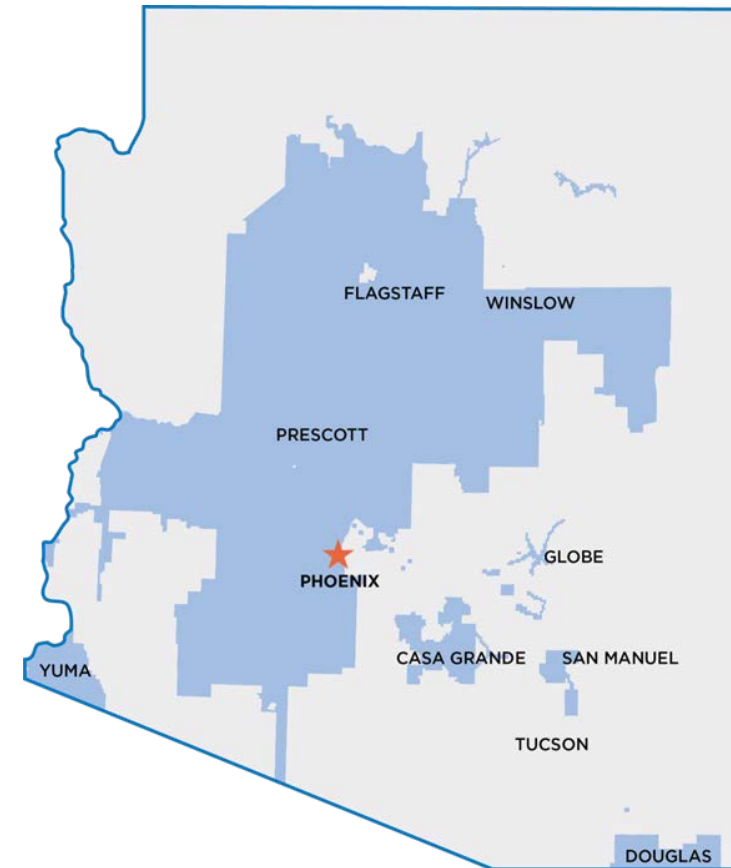
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APS Company Background

Arizona's largest and longest serving utility – since 1886

- Service Territory
 - 11 out of 15 counties
 - 34,646 square miles
 - 1.2 Million Customers
- Peak Demand
 - ~ 7367MW in June 2017
- Transmission Line Miles – 6,189
- Distribution Line Miles – 29,696
- 549MW Utility Scale Solar
- 815MW Customer Solar

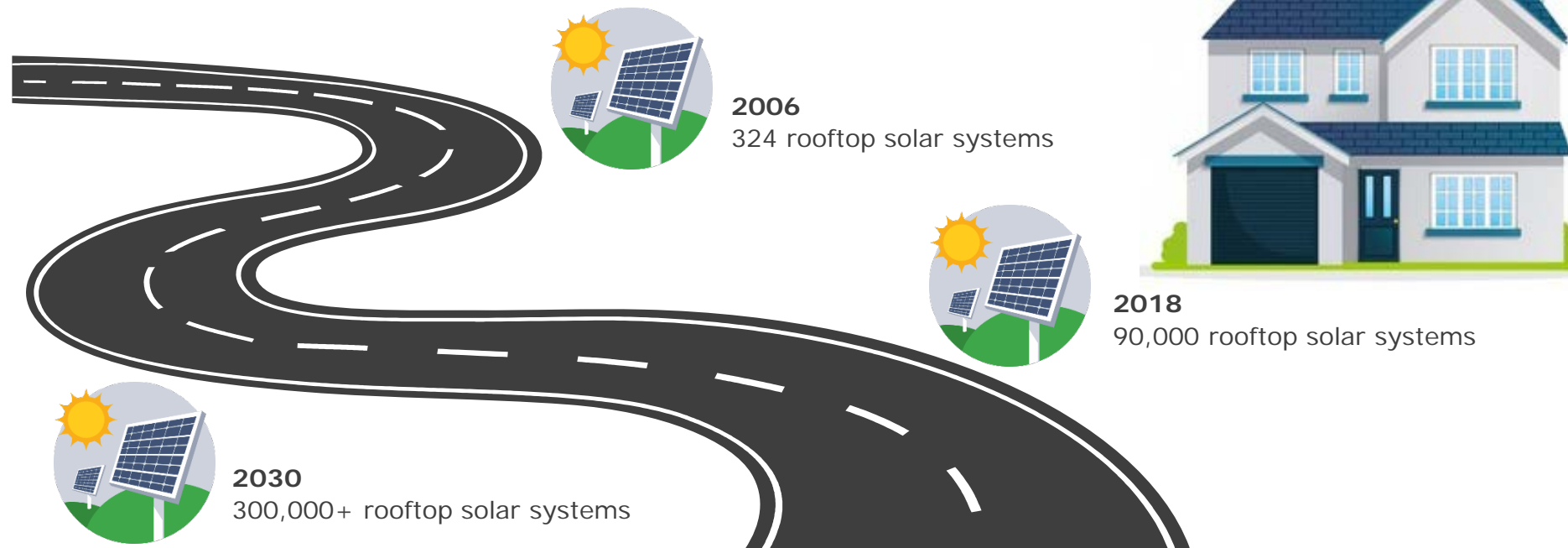


The Southwest's foremost producer of clean, safe and reliable electricity

Transitioning to the Modern Grid

Meeting the demands of the 21st century and beyond

- Maintain reliability and power quality
- Increase flexibility, resiliency and system visibility
- Enable sustainable DER integration
- Empower customer choice



Rethinking Resources

Unlocking the path to reliable and affordable clean energy



**50%
Carbon-Free**

Today, we serve customers with an energy mix that is already 50% clean



**1 Million
Solar Panels**

APS currently has 10 large-scale solar plants across Arizona



**950 MW
Clean-Energy**

APS is committed to an energy future that is clean, reliable and affordable

Taking the Next Leap

Advancing grid capabilities through research



Festival Ranch - 2MW (2 MWh)

Maximizing benefits to customers

- Reliable, flexible power source
- Increased operational efficiency
- Solar power after sunset

Powering Arizona in new ways

- Defer traditional upgrades
- Distribution voltage management
- Fast response clean market resource



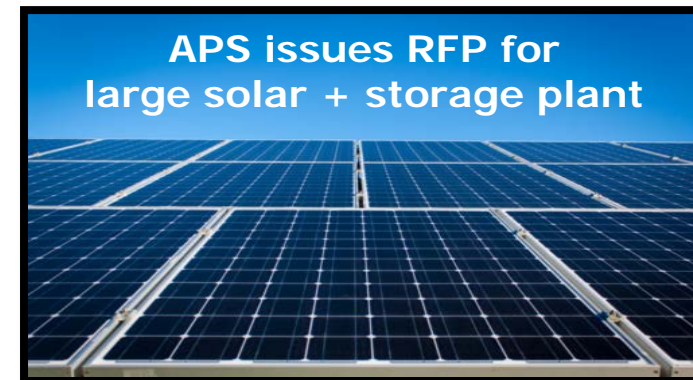
Punkin Center - 2MW (8 MWh)

Investing in our Future

Powering Arizona with a cleaner energy mix



Adding Storage to Existing Solar Plants



Building New Solar + Storage Plants

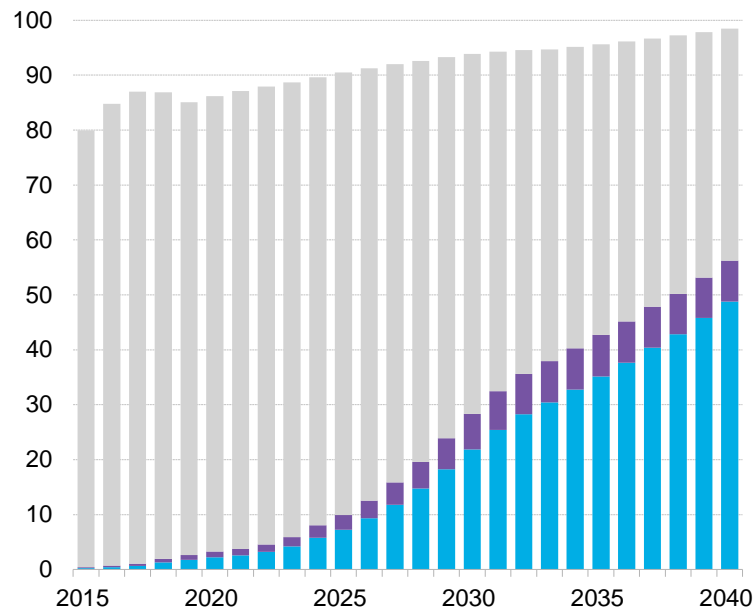


Delivering More Clean Energy When Needed

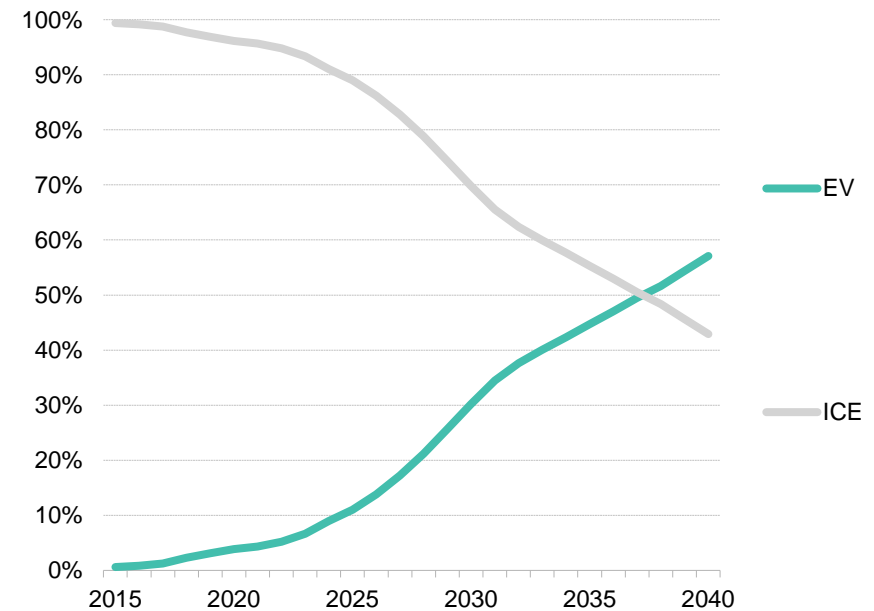
Modernizing Transportation

Growing electric vehicle demand

Million Vehicles



Share of Annual Sales



Keeping Pace with Technology

Enabling customer choice and cleaner air

Take Charge AZ Pilot Programs



Workplace Charging

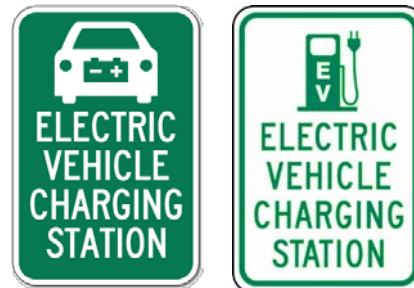
Avoid charging during peak hours

Encourage Electric Vehicle (EV) adoption



Fleet Vehicles

Build, own and operate EV infrastructure



Multifamily Communities

Questions?

