



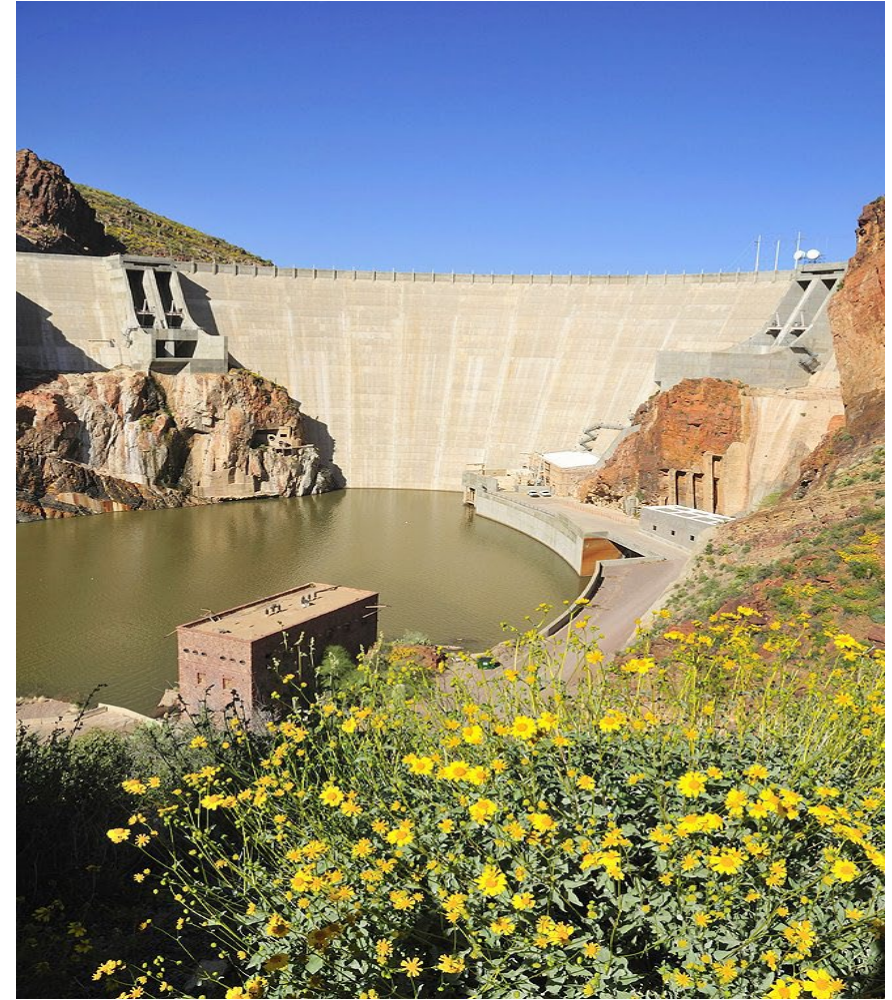
Delivering water and power®

ENERGY DOME LDES PILOT

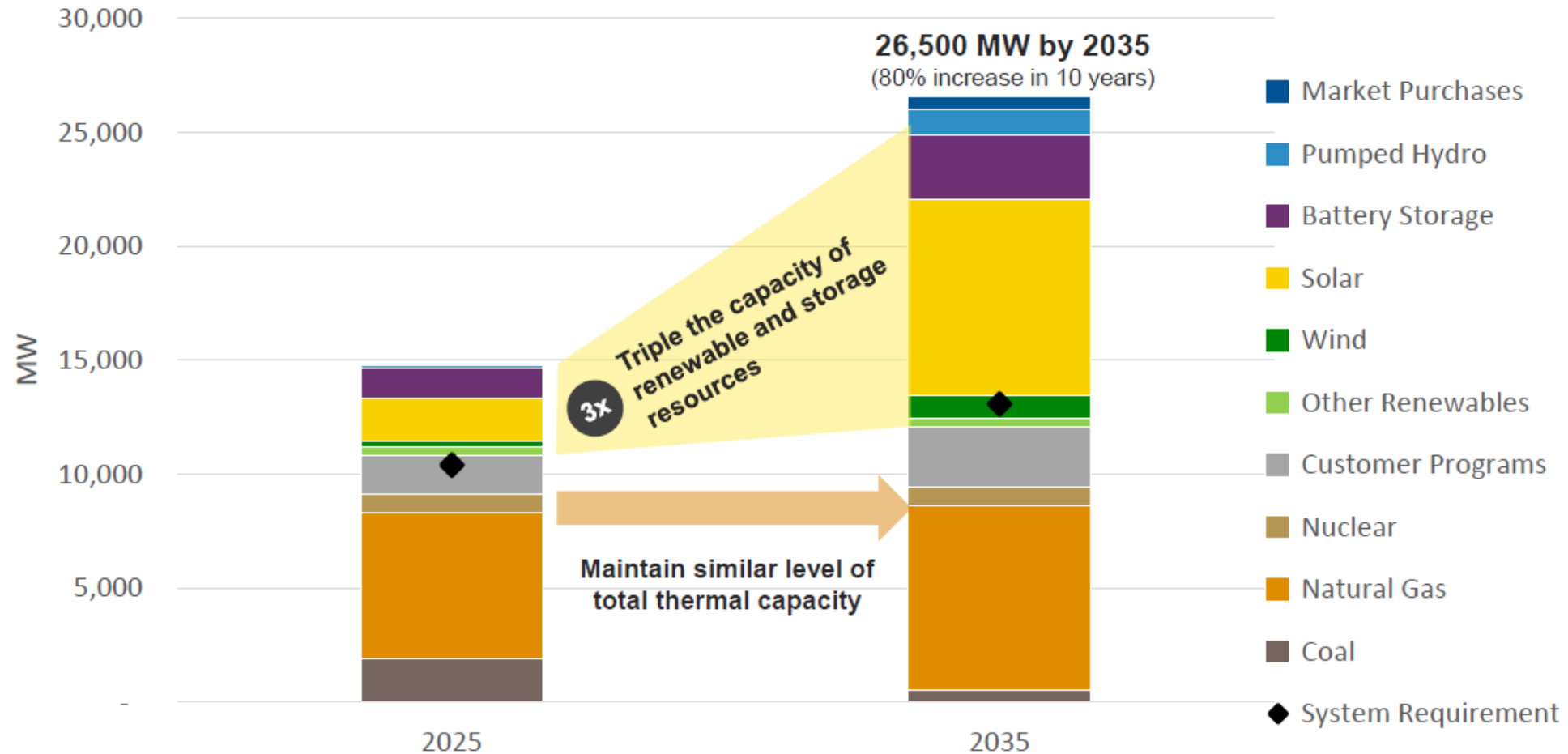
Chico Hunter, Innovation & Development | July 14, 2026

About SRP

- Established in 1903
- Phoenix area water and power supplier
- 3rd Largest Public Power in US
 - 1.1M customers
 - 8,542 MW peak system load
 - 8 reservoirs on Salt and Verde Rivers
- Carbon Intensity Goals
 - 82% by 2035
 - Net Zero by 2050



2023 Integrated System Plan – “Balanced Plan”



Need for LDES Pilots

- Pilot Energy Storage
 - Many emerging non li ion technologies
 - Long duration (10 hr.) needed
 - Issued Requests for Proposals (RFP) in 2022 and 2024
- Help advance promising technologies
- Gain experience
- Storage technology options
- Leverage Electric Power Research Institute (EPRI) to support evaluations

Planned Pilots



5 MW, 10-hr,
Online target
12/2027



5 MW, 10-hr,
Online target
12/2027



19 MW, 10-hr,
Online target
4/2029

CGS Pilot Technology Description



- CO₂ battery (expands and compresses CO₂)
- Similar components and maintenance to conventional power plant
- Locate at Coronado Generating Station, St. Johns, AZ
- Large dome to hold CO₂
- System life: 30 years - daily cycling
- Size: 19 MW, 10 hours
- Term: 20 years



19 MW, 10-hour project rendering, CGS

LDES Research Collaboration with Google

- Innovative collaboration with key customer with common interest
- Cost share pilots with SRP
- Provide Google operational data, research results
- Allow Google input on test plans
- ESS and Energy Dome pilots included to date





THANK YOU