



Transmission Planning & Engineering
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Subject: APS 2025 Annual Progress Report for Planning Coordination

In accordance with the reporting guidelines established by the WECC Planning Coordination Committee, the following Annual Progress Report with changes to Arizona Public Service (APS) Company's system for the 2025-2034 periods are being reported. These projects are not expected to have significant impacts on the operation of the WECC interconnected electric system, and therefore APS requests a Waiver of "Significant Impact" status for these transmission projects. These projects have been modelled in the Ten-Year Plan submittal to the Arizona Corporation Commission. All the projects proposed are for serving local load while maintaining or enhancing the reliability of the local transmission system.

Project Name	Description	Purpose	Expected In-service Date
Goodyear 230kV Lines	The Goodyear substation is located south of Van Buren Street and east of Bullard Avenue in Goodyear. The Rudd-Three Rivers 230kV line heads south from Van Buren Street and routes east of Goodyear substation as it heads south and then west to Three Rivers substation. The line will be cut into the new 230kV bus on the southern end of Goodyear substation.	To provide electric energy to a high-load customer in the area. In-service date is predicated on ramp rate of customer load.	2025
Snowflake Solar Transmission Provider Interconnection Facilities	The APS-owned portion of the line will begin at the point of change of ownership (POCO) located south of Cholla Lake and east of the Cholla-Snowflake 69kV line. The line will extend northwest between Cholla Lake and the Burlington Northern Santa Fe (BNSF) Railway from the POCO to Cholla substation.	To provide the Transmission Provider Interconnection Facility portion of the generation tie line to connect the Snowflake Solar Project to the Cholla substation.	2027
Q264 Transmission Provider Interconnection Facilities	Starting at the Point of Change of Ownership (POCO), approximately one mile south of Milligan substation, the APS portion of the Q264 Solar and Storage generation tie line will extend approximately one mile north to Milligan substation. The APS portion of the generation tie line will be collocated with the existing APS Saguaro-Milligan 230kV line, which will be rebuilt as a double-circuit line from the POCO to Milligan substation.	To provide the Transmission Provider Interconnection Facility portion of the generation tie line to connect the Q264 generation project to Milligan substation.	2028

Project Name	Description	Purpose	Expected In-service Date
Cholla-Chevelon 345kV Line Cut-In to Sitgreaves	This project will cut the Cholla-Chevelon 345kV line in and out of the Sitgreaves switchyard.	To provide more flexibility in operating the generation and loads within the corridor from Cholla to Pinnacle Peak and ensure reliable output of the West Camp Wind generation.	2028
Saguaro Power Campus Upgrades	The 230kV yard within Saguaro substation will be relocated to an expanded footprint in an area directly west of the existing 500kV yard. The Saguaro-Milligan, Saguaro-Santa Rosa, and Saguaro-Serrano Solar 230kV lines will need to re-routed and extended to the north and east by 0.5 to 1 mile each to connect into the new 230kV yard. Similarly, the ties to the Saguaro 230/115kV transformers will also need to be routed into the new yard and the existing 500/115kV transformers will be transferred to the 230kV yard, utilizing the available 500/230kV windings. Approximately 0.5 mile of the Saguaro-San Manuel 115kV line will need to be relocated to facilitate the construction of the new 230kV yard.	To reduce fault duty at the Saguaro 115kV yard, which is approaching the limitations of the existing equipment. The project will also increase capacity by directly connecting the Saguaro 500kV and 230kV yards and will allow for the connection of future 230kV lines to allow for generation interconnections or the expansion of the Pinal County network, improving ability to serve growth in Pinal County and Metro Phoenix.	2029
North Gila to Orchard 230kV Line #2	The second North Gila-Orchard 230kV line will be constructed as a second circuit on the poles supporting the existing North Gila-Orchard 230kV line. The line exits North Gila, heading generally south. It routes to the east of the WAPA Gila substation and then heads southwest along the canal to State Route 195. It then heads south, paralleling State Route 195 to the County 13½ Street Alignment where it heads west to the Avenue 5½ E alignment and then south to Orchard substation.	To provide additional capacity to support the connection of a new solar and storage generation facility at Orchard substation.	2029
Agua Fria to Contrail 230kV Line	The new line will exit Agua Fria substation and head west for approximately 4.6 miles to the transmission corridor paralleling the 111th Avenue alignment. Along this route, the new line will share structures with the existing Agua Fria-El Sol 230kV line. The line will then head south for approximately 1.4 miles, sharing structures with the existing El Sol-White Tanks 230kV line. At Glendale Avenue, the line will head west along a new alignment along Glendale Avenue and then west and north to Contrail substation, which is located south of Olive Avenue between El Mirage Road and Dysart Road.	To support load growth and maintain the reliability of the 230kV network in the western part of the Phoenix Metropolitan area.	2030

The following 23 projects in the 2025-2034 Ten Year Transmission System Plan were provided in previous year transmission plans and currently have waivers granted.

Project Name	In-service Date
Three Rivers 230kV lines	Placed In-Service (2024)
Serrano Solar and Storage Project 230kV Gen Tie	Placed In-Service (2024)

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Rabbit Canyon 500kV Switchyard and Lines	Placed In-Service (2024)
Parkway (TS2) 230kV Lines	2025
Broadway 230kV Lines	2025
Contrail 230kV Lines	2025
Hashknife Energy Center Transmission Provider Interconnection Facilities	2025
Proving Ground (Ironwood) Solar and Storage 500kV Interconnection	2025
West Camp Wind Gen-Tie Project	2025
Dromedary 230kV Substation and Lines	2025
Runway Additional Lines	2027
Sun Valley to Outer Circle 230kV Line	2027
Sundance to Milligan (previously Pinal Central) 230kV Line	2027
Bagdad 230kV Transmission Line	2028
Bianco 230kV Lines	2028
TS22 Project	2028
Pinnacle Peak to Ocotillo 230kV Line Rebuilds	2029
Panda to Freedom 230kV New Line (previous Rebuild)	2030
Jojoba to Rudd 500kV Line	2032
Runway to Stratus 230kV Line Cut-In to TS21	2032
TS21 – Broadway 230kV Line	2032
Four Corners to Cholla to Pinnacle Peak 345kV Line Rebuilds	2037
TS17 230kV Lines	TBD

All facility additions listed herein are being planned and will be operated in conformance with NERC Planning Standards and WECC System Performance Criteria. If you have any comments or questions about any of the projects, please contact me.

Sincerely,

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