



Upcoming Major Transmission & Substation Projects

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Presentation Outline

- Transmission & Substation Project Drivers
- Major Upcoming Transmission & Substation Projects
- Land Acquisition Process
- Community Engagement



Electric Service Delivery Mission

“Safely deliver reliable electric service to our customers by planning, designing, constructing, operating, and maintaining our Electric Delivery System”

AE's Mission

To Safely Deliver Clean Affordable Reliable Energy and Excellent Customer Service



Transmission + Substation Drivers

- Customer Collaboration – Supporting customer needs and managing system capacity/requirements
- Grid Modernization/Business Excellence – Reliability/Resiliency (Aged/End of Life Infrastructure)
- Employee Engagement – Increasing safety by improving accessibility and maintainability
- Environment – Renewable Resource Interconnections
- Financial Health – Economic/System Efficiencies



Summary of Major Projects - Substations

Project	Timeframe	Budget Estimate	District	Eminent Domain
Bluff Springs Substation	Summer 2019	\$11M	2-mile ETJ	Yes
Ashton Woods	Summer 2019	\$3.5M	7	No
Winchester	Summer 2019	\$5.9M	Outside ETJ	No
Repowering Downtown	Summer 2020 Summer 2022	\$60M	1, 9	Not Expected
Northeast Substation	Spring 2021	\$8.1M	1	No
Substation Projects to Support Resource Generation Plan	2019-2021	TBD	1, and possibly others	Not Known



Summary of Major Projects - Transmission

Project	Timeframe	Budget Estimate	District	Eminent Domain
Circuit 1030 Addition	Summer 2018	\$8.6M	7, and 2-, 5-mile ETJ	Yes (completed in 2014)
Circuits 3121/3122 Reconductor	Winter 2018/2019	\$3.4M	Outside ETJ	No
Circuit 811 Conversion	Winter 2020	\$5.1M	4, 7	Not Known
Circuit 1016 Rebuild	Spring 2021	\$2.7M	1 and 2-mile ETJ	Not Expected
Circuit 813 Conversion	Summer 2021	\$5.9M	4	Not Known



Summary of Major Projects - Transmission

Project	Timeframe	Budget Estimate	District	Eminent Domain
Circuit 979 Reconductor	Fall 2021	\$7.4M	4, 7	Not Known
Transmission Projects to Support Resource Generation Plan	2019-2021	TBD	1, and possibly others	Not Known
Circuit 809 Conversion	Winter 2023	\$5.3M	7	Not Known
Circuit 977 Reconductor	Winter 2023	\$2.3M	4, 7	Not Expected
Circuit 916 Rebuild	Summer 2025	\$21M	7, 10, and 2-mile ETJ	Not Known



Site Selection Process

Need: Electric Service Delivery (ESD) Transmission & Distribution Planning determines transmission or substation need based on planning studies, cost/benefit analysis, and evaluating alternatives

Request: Transmission & Substation generates preliminary requirements (routing, configuration, accessibility, conceptual design, equipment, size, ...)

Requirements: Public Involvement & Real Estate Services (PIRES) works with Project Team on land requirements (preferred area, connectivity, size, ...)

Research: PIRES researches available properties and generates a **Land Use Analysis** (see next slide)

Selection: PIRES submits possible sites/routing for Project Team to select preferred site/routing and starts **Land Acquisition Process**



Land Use Analysis

Ownership

Configuration

Zoning

Permitting
Requirements

Flood Plain

Water Quality
Zones

Environmental
Impact

Topography
& Soil
Conditions

Proposed ROW
Projects

Connectivity

Accessibility

Community
Analysis



Land Acquisition Process

Process Follows Legal Requirements of Senate Bill 18 (Land Rights)

Owner Engagement: Meet with Property Owner, Customer Notification, & Permission To Survey

Prep Work: Survey, Legal Description, Notice of Intent, Appraisal

Legal: Legal Preparation of Contract Docs

Offer: Initial Purchase Offer, Negotiations, Final Offer*

Contract: Seller Execution, EUC & Council Approval, Closing

* If Offer Not Accepted, Decision on Alternate Site or Eminent Domain



Community Involvement Process

Upon site/routing selection, AE PIRES commences Community Involvement Process with AE Corporate Communications and Project Team





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QUESTIONS?



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