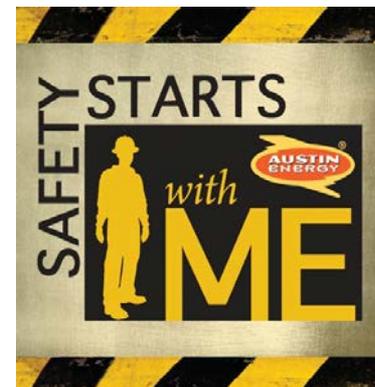


Upcoming Major Transmission & Substation Projects

Jan 24, 2018 AEUOC Meeting

Dan Smith, P.E. – Vice President
Electric Service Delivery





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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Building a Better Austin

Building a Better Austin

Repowering Downtown Austin

FAQs

Repowering North-Central Austin

District Cooling Plant #3

Repowering Downtown Austin Ensuring Reliable Power for the 21st Century

The rapid growth of downtown Austin requires electrical facilities with enough capacity to continue to make downtown one of the best places in the country to live, work, and play.

For more than 70 years, the City of Austin's electric utility has designed, constructed, and operated an exceptional, high-capacity downtown network to promote a compact, aesthetically-pleasing central business district. The network brings power created elsewhere into the area and transforms it by feeding power into high-voltage power lines that, in turn, feed closed vaults that serve downtown buildings through a system that is primarily underground.

Downtown Power is Nearly at Capacity

The rapid pace of development downtown is now close to exceeding the electrical facility requirements needed for the near- and long-term future.

Downtown Austin will be at an increased risk of recurring power outages if electric capacity is not increased and electrical equipment is not upgraded. Reliability will suffer and the system will not meet customer expectations unless several actions are taken within the next 10 years.

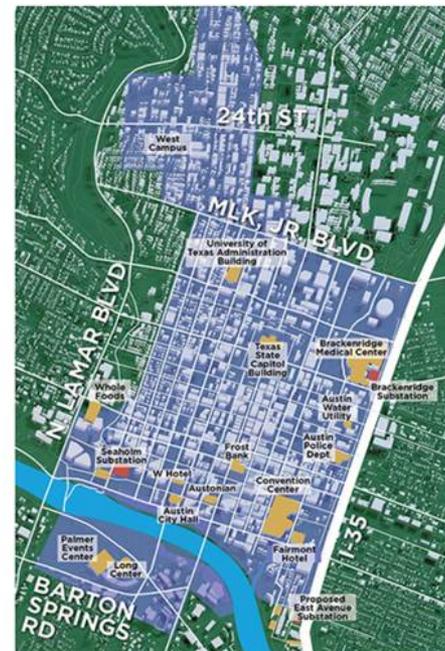
Austin Energy's proposed electric system improvements serve our customers in an area where the State of Texas has designated the utility as the provider of electrical power distribution. Simply put, it is Austin Energy's responsibility to plan for and construct the improvements needed to keep up with current growth.

An Additional Downtown Electrical Substation is Needed Now

The Downtown Austin Plan adopted by the Austin City Council in 2012 identified the need for a new substation in the fast-growing Rainey Street District to serve this part of downtown and redevelopment along Waller Creek.

Why?

- A third downtown electrical substation needs to be built by 2020 to ensure businesses and residents have reliable, resilient and redundant electrical





QUESTIONS?



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