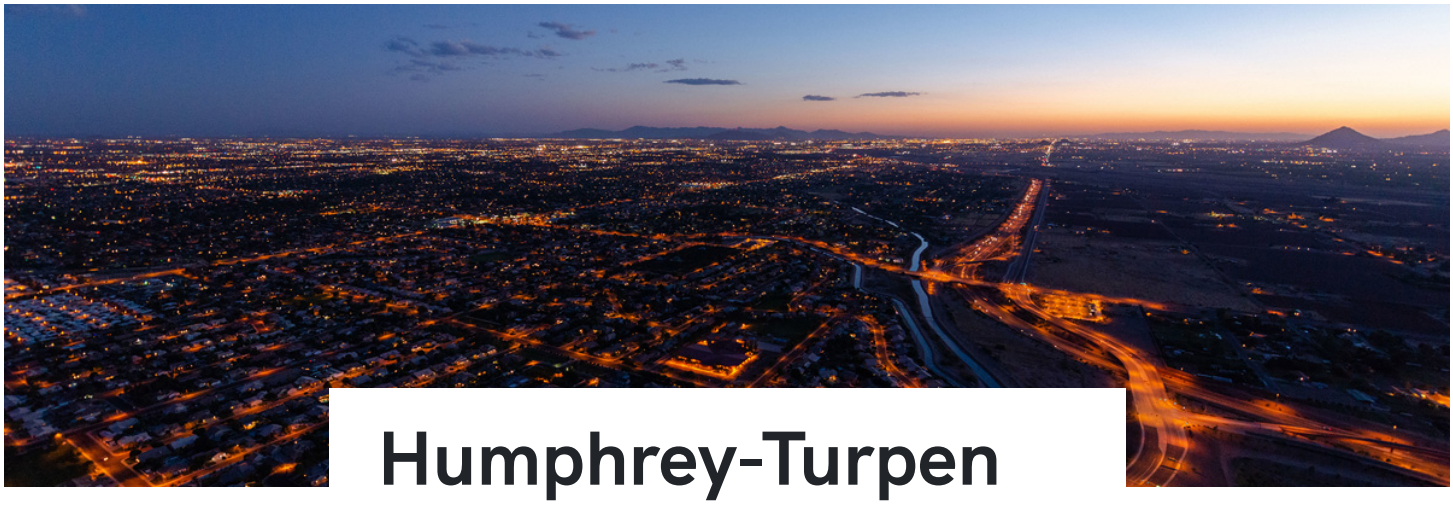


Humphrey-Turpen 69kV transmission project

SRP's mission is to deliver high-value electricity and water for the benefit of our customers and the communities we serve. In order to deliver this promise, it requires SRP to also address future energy needs today.

On this page:

Project need and benefit

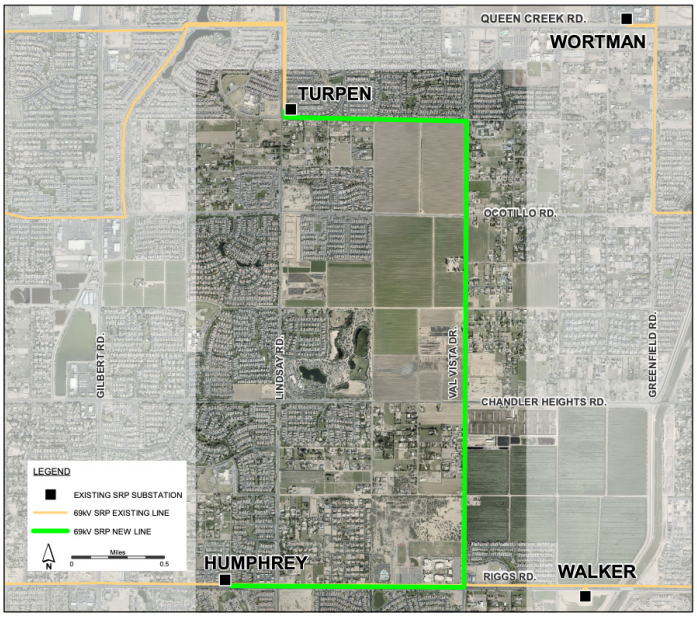
To meet the growing energy demands within your community, SRP is planning to construct new infrastructure to enhance reliability for current customers and support new and expanding developments within this area. This project will integrate into the existing system which will bring greater reliability, reduce the probability of power disruptions, as well as support the economic growth anticipated for this region. By creating the expanded infrastructure now, it will make this area more appealing for new businesses and residential developers, all while providing reliable electricity to our existing customers.

The project consists of constructing a new 69kV transmission line that will connect from the existing Humphrey Substation located on Riggs and Lindsay Road to the Turpen Substation located on Appleby and Lindsay Road. The transmission network of 69kV power lines serves as the backbone of SRP's neighborhood electrical system. These power lines interconnect local substations, providing system redundancy and reliability. From the substations, the 69kV gets converted down to 12kV, which then feeds homes, schools and businesses.

Route selection process

SRP engineers considered a variety of factors in the route selection process including future electrical needs, safety, construction feasibility, maintainability and cost. The selected route makes use of the existing SRP lines where possible. Along Riggs Rd from Humphrey Substation to Val Vista Drive, SRP will modify its existing 69kV line to support the new circuit within the existing alignment. The remaining segments along Val Vista Dr. and Appleby Road will be a new line supporting a single 69kV circuit.

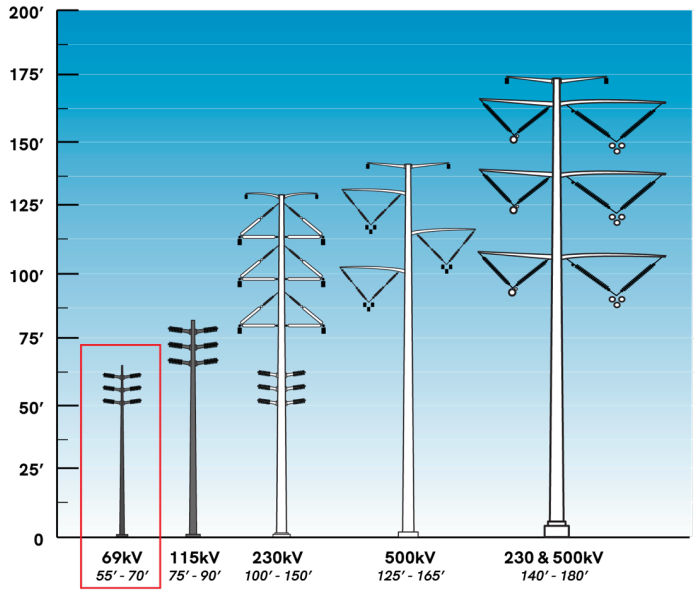
Humphrey-Turpen 69kV Route Map



View a larger map.

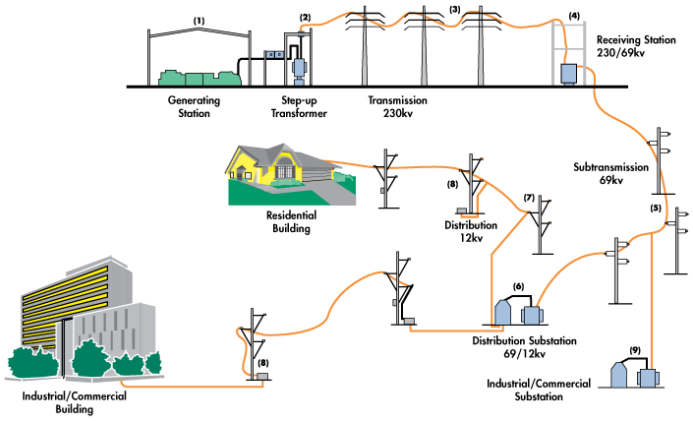
Pole structures

The typical 69kV pole is approximately 55 to 70 feet tall.



Below are types of poles you may see installed on this project. Click on an image to make larger.

How electricity gets to you



Public outreach

SRP strives to provide our communities with advance notice of infrastructure improvements. Customers and property owners along the route will be notified in advance of construction. At this time, we anticipate construction to commence in February of 2022 and the new line to be in service by March 2022.

Contact us

If you have questions, please call **(602) 236-2872** or email 2872Line@srpnet.com.

Frequently asked questions

Overview

What is the Humphrey-Turpen 69kV Transmission Project?

A new 69kV transmission line will be built connecting the Humphrey and Turpen Substations in order to provide additional energy to SRP customers and to serve the future planned development and increased density in the Chandler/Gilbert area. Construction of the line is anticipated to commence in the fall/winter of 2021. The project will be in the Chandler/Gilbert area. There will be a public outreach process to customers and landowners in the area notifying them of the project need and timeline for construction.

Need and benefit

What is the purpose and need of this project?

The purpose of the new Humphrey-Turpen 69kV Transmission Line is two-fold. First, the new line is required to accommodate future energy demands in the growing southeast valley community. Second, this upgrade to the existing system will reduce the probability of outages, while providing higher electric reliability to the surrounding customers. This new line is part of a larger effort to upgrade SRP systems and infrastructure, so we can continue to meet the energy demands of our customers and provide reliable power.

SRP's 69kV transmission power line network serves as the backbone of SRP's neighborhood electrical system. These power lines interconnect local substations, providing system redundancy and reliability. 69kV transmission lines bring power to substations to meet the area's growing demand for power and provide better electric reliability to the community.

Why is SRP planning these electric system additions now?

Design, engineering and construction

What kind of lines and poles are you constructing? How tall will the poles be, how many miles? How wide? How many?

Can the line be placed underground?

SRP's standard construction practice for 69kV lines is overhead construction which allows for easier maintenance of the lines and reduced construction costs to be born by our customers.

Undergrounding a 69kV power line costs about $3.5 million per mile per circuit – 10 times the cost of overhead construction. Future costs for underground 69kV projects are difficult to predict because of the rapidly rising costs of oil and copper, two key components of the underground wire. Our 69kV lines traverse neighborhoods across the Valley; burying all of them would be very costly and affect our customers' electric prices substantially.

Developers often bury existing 12kV distribution lines and build the new electrical infrastructure underground. Those costs are paid for by the developers, typically $1 million per mile. In the very few cases where SRP has located high voltage transmission circuits underground, the cost differential was funded by a third party for safety reasons like the proximity of a line to an airport.

How was this route chosen?

What is a substation?

Will the cost of building this project impact rates?

Will there be any noise from these transmission lines?

Land

Will SRP need any additional easements on private property?

How will my property values be affected?

There are many variables to consider in the valuation process. Each property is different; an appraiser would have to take into account the criteria of the property (e.g., size, zoning, location, proximity to major arterial streets, etc.). In the valuation process, the appraiser would also consider current market conditions of the area and its unique amenities (e.g., quality of schools, available retail shopping, restaurants, parks, other recreational amenities, ease of access via freeways and local streets, etc.).

Generally, transmission lines would not be considered as a material factor in the determination of property values. Given the number of variables to evaluate in the appraisal process, it would be premature and likely inaccurate to give any specific response regarding the value of any specific property without an appraisal.

Electric and magnetic fields (EMF)

What types of studies have been done on the health effects of EMFs?

Is there information about EMF public exposure standards that I can review?

Public process

How will the public be involved?

SRP strives to keep our community informed of upcoming projects in the specific area. The public outreach process is comprised of meeting with public officials representing the region, jurisdictional agencies, key landowners and stakeholders to inform them about the project. Additionally, SRP mails post cards to customers and landowners in the general project area to inform them of the new facilities to be constructed. A website is also created where anyone may obtain additional information about the project and view project updates. The website address is included on the post card. A member of SRP's Project Team will respond to all inquiries received from the public.

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