PODER SUBSTATION SUBESTACIÓN PODER WELCOME TO OUR PUBLIC OPEN HOUSE BIENVENIDOS A NUESTRA JORNADA DE PUERTAS ABIERTAS

Please sign in at the welcome table



Regístrese en la mesa de recepción

No formal presentation is planned. Please review materials and let us know if we can answer any questions.

No está prevista ni alguna pregunta.

Spanish/English translators available



Take a comment form and
contact information cardEnjoy Refreshments



Traductores Español/ Inglés disponibles

Tome un formulario de comentarios y una tarjeta de contacto

No está prevista ninguna presentación formal. Revise el material y consúltenos si tiene



Disfrute de unos aperitivos

OVERVIEW

Poder Substation is a new electric substation to be located at East 51st Avenue and North **Columbine Street.** The substation will be connected to the existing transmission line along York Street, one block to the west. Poder **Substation includes several components:**

- A new substation located on approximately 7 acres
- Approximately 675 feet of overhead single-circuit 115-kilovolt electric transmission line interconnection
- Approximately 250 feet of distribution interconnection

Poder Substation will:



Improve overall system reliability and resilience in the Elyria-Swansea, Globeville, Five Points and other neighborhoods, and backup existing substations that are reaching capacity

PODER SUBSTATION





Begin construction in 2024 and complete work in 2026, pending permit approvals





Connect to the existing transmission system to supply the Poder Substation with electricity to power the distribution feeders serving surrounding communities

NEED AND BENEFITS

customer need anticipated for the future.



PODER SUBSTATION

Denver continues to experience residential, commercial, and industrial growth which has increased the demand for additional electricity. Xcel Energy is making upgrades to the electric system in this area to reliably serve the additional

Poder Substation will:



Provide additional system capacity



Maintain adequate voltage to serve electrical demand



Backup the existing Mapleton, Argo and North substations, which are reaching capacity



Reliably serve customers' electric needs as commercial, residential and industrial demand increases

What does a substation do?

Distribution substations, like Poder Substation, reduce the voltage of electricity delivered from load serving transmission lines to a lower voltage that is delivered on distribution lines to power homes and businesses.

- **1** Existing transmission lines
- **2** Poder Substation
- Distribution lines will deliver power from the Poder Substation to local residences and businesses 3





DEVELOPMENT PROCESS

Developing the Poder Substation involves a thorough process to plan and site the facilities; engage with the public and stakeholders; and design, permit, and construct.



Plan

Identify substation need and area it will serve, transmission and distribution interconnection locations, permitting requirements and initiate Site Selection Study





Community Engagement

Community engagement helps drive responsible development. Xcel Energy built a special project website for the Poder Substation project – XcelEnergyPoderSubstation.com – to inform customers about it and our progress. People may contact us at 800-957-9048 or PoderSubstation@xcelenergy.com with any questions or comments, and we will work with the community and Denver through all the phases of this needed project.

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SITE SELECTION PROCESS



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Siting Criteria	Land Acquisition	Land Use	Engineering	Environmental and Cultural Resources	Regulatory Compliance
Consideration	 Developable land Available for purchase Existing easements 	 Current and future land use Residences Parks, trails, and recreation centers Public institutions and buildings Railroads and other transportation infrastructure 	 Parcel size and dimension Distance to existing electrical system interconnections Accessibility for construction and operation Proximity to existing buildings and structures 	 Historic landmark districts and structures Denver Storm Detention and Water Quality Areas EPA-registered sites 	 Local, state and federal permitting requirements and approvals Allowable uses in zone district

PODER SUBSTATION

A Siting Study was completed for Poder Substation that evaluated and compared several sites using siting criteria to identify a preferred location.

The Siting Area was identified between existing substations where the necessary transmission and distribution interconnections could be made to provide power to the community. The site was selected because it is the appropriate size, proximate to the necessary transmission and distribution interconnection, within a compatible land use area and zone district, and available for purchase.



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LOCATION

The East 51st Avenue and Columbine Street site was ultimately selected because:



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Appropriately sized for substation





Near transmission and distribution interconnections, minimizing construction impact



In an industrial area, which will remain industrial per Elyria and Swansea Neighborhoods Plan



Located in the area that the substation will serve

Allowable use in zone district

Available for purchase

Legend

- Proposed Poder Substation Site
- Proposed Poder Transmission Interconnect
- Existing Transmission Line



PODER SUBSTATION



SUBSTATION SAFETY

Poder Substation will:

Be monitored 24/7/365 by a staffed control center

Be inspected regularly for damage, equipment needing repair or replacement, and anything else that might jeopardize safety

Include a security wall to prevent unauthorized access

Coordinate with local law enforcement and first responders about security concerns or access to substation facilities

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Poder Substation will be built and maintained to meet or exceed national safety standards, such as those specified by the National Electrical Safety Code and the North American Electric Reliability Corporation.

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TRANSMISSION LINE

ROW (100 feet)

PODER SUBSTATION

INSULATOR

Anticipated Design

- Steel single-circuit transmission structure
- Single pole structures
- Each pole will be on a concrete foundation
- Poles range 80 to 95 feet above ground
- 100-foot-wide Right-of-Way (ROW)
- Typical span length of 950 feet between transmission structures
- Galvanized grey color

Transmission line structures vary in height depending on:

Sag of the conductor

Structure type

STRUCTURE

Length of span between transmission structures

Minimum clearance prescribed by the National Electric Safety Code

WHAT COULD THE SUBSTATION LOOK LIKE? *()* XcelEnergy®

Thoughtful Design

Poder Substation will be designed to meet the needs of the community and Denver design requirements such as setbacks, fencing or walls, and waterwise landscaping. The substation equipment will be setback from property lines to accommodate greenspace including street trees and shrubs. Right-of-way improvements will be implemented as required by Denver that may include sidewalks to enhance neighborhood connectivity. Xcel Energy will work with the community during the design phase and throughout the duration of the Project.

The above graphics are for reference purposes only. Site elements are not guaranteed to be final due to safety, security, operational interference and site specific requirements.

PODER SUBSTATION

. Security Fencing / Screening Wall

Includes drainage and stormwater

Meet Denver design requirements and the needs of the community

Limited to emergency or maintenance activities and security

5. Private Access Drive Allows equipment to pull completely off

6. Land Use Compatability Compatible with various surrounding

Community Substations

Xcel Energy has successfully developed substations within local communities around Colorado. Each substation site is designed to meet technical requirements, local development standards, and complement the surrounding area. A few examples of Xcel Energy community substations are pictured below.

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WHAT COULD THE SUBSTATION LOOK LIKE? *O Xcel Energy*[®] ¿CÓMO PODRÍA SER LA SUBESTACIÓN? **Concrete Wall**

Muro de concreto

Elevation East Side | *Elevación lado Este*

Foliage Textured Concrete Precast Wall Muro prefabricado de concreto con textura Foliage

Mural on Smooth Tilt-Up Wall Mural sobre pared lisa inclinada hacia arriba

These examples are not exhaustive. All or parts of any example may be used in the Poder Substation wall. Los ejemplos no son exhaustivos. Cualquier ejemplo puede utilizarse en su totalidad o en parte en el muro de la subestación Poder.

SUBESTACIÓN PODER

Foliage Textured Concrete Tilt-Up Wall Muro inclinado hacia arriba de concreto texturizado Foliage

Sloped Tilt-Up Wall Top Borde inclinado del muro inclinado hacia arriba

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Ridged Concrete Tilt-Up Wall Muro inclinado hacia arriba de concreto rugoso

Stone Textured Tilt-Up Wall Muro inclinado hacia arriba con textura de piedra

WHAT COULD THE SUBSTATION LOOK LIKE? *O Xcel Energy*® ¿CÓMO PODRÍA SER LA SUBESTACIÓN? **Block Wall** Muro de bloques

Elevation East Side | *Elevación lado Este*

Elevation South Side | *Elevación lado Sur*

These examples are not exhaustive. All or parts of any example may be used in the Poder Substation wall. Los ejemplos no son exhaustivos. Cualquier ejemplo puede utilizarse en su totalidad o en parte en el muro de la subestación Poder.

SUBESTACIÓN PODER

Varied CMU Brick Wall Muro de ladrillos CMU variados

Alternating Brick + CMU Wall Muro de ladrillos alternados + CMU

Faceted Precast Brick Wall Muro de ladrillos prefabricados facetados

OTOÑO 2023

Rough-Cut Stone Brick Wall Muro de ladrillos de piedra gruesa

Staggered Split-Face + Smooth CMU Wall Muro escalonado, liso y de dos caras de CMU

Elevation East Side | Elevación lado Este

Elevation South Side | *Elevación lado Sur*

Mural on Corrugated Steel Wall Mural sobre muro de acero corrugado

Alternating Wood Slat + Tilt-Up Wall Tablas de madera alternadas + muro inclinado hacia arriba

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SUBESTACIÓN PODER

Corten Steel Panel Wall Muro de paneles de acero Corten

Tilt-Up Wall with Rough Finish Muro inclinado hacia arriba con acabado rugoso

Mirrored and Metal Slat Panels on Wall Paneles de espejo y láminas metálicas en el muro

Metal Mesh Panels on Wall Paneles de malla metálica en el muro

WHAT COULD THE SUBSTATION LOOK LIKE? ¿CÓMO PODRÍA SER LA SUBESTACIÓN?

Photo Point 01 - View From Swansea Park Playground *Photo Point 01 - Vista desde el parque infantil Swanesa*

Existing View | Vista actual

Proposed View | Vista propuesta

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WHAT COULD THE SUBSTATION LOOK LIKE? ¿CÓMO PODRÍA SER LA SUBESTACIÓN?

Photo Point 02 - View From Fillmore Street and E. 51st Avenue *Photo Point 02 - Vista desde Fillmore Street y E. 51st Avenue*

Existing View | Vista actual

Proposed View | Vista propuesta

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WE WANT TO HEAR FROM YOU **OUEREMOS CONOCER SU OPINIÓN**

We're looking for community input on substation design, including wall materials and other design elements.

Explore wall design and landscaping options

Please fill out a comment form

en una de nuestras estaciones de comentarios en esta reunión

Contact us with questions or comments in one of the following ways:

E-mail | Correo electrónico PoderSubstation@XcelEnergy.com

SUBESTACIÓN PODER

Queremos conocer la opinión de la comunidad sobre el diseño de la subestación, incluidos los materiales de los muros y otros elementos del diseño.

> At one of our comment stations at this meeting

Explore las opciones de diseño de paredes y paisajismo

Por favor complete un formulario de comentarios

Using this QR Code

OR

escaneando este código

Si tiene alguna pregunta o comentario, puede contactarnos de una de las siguientes maneras:

Website | Sitio web XcelEnergyPoderSubstation.com

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Phone | Teléfono 800-957-9048