



COLORADO'S POWER PATHWAY

Proposal delivers new energy economy benefits
to rural Colorado, communities across the state

Virtual Project Introduction Meeting





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WHAT WE'LL COVER TODAY

1. Xcel Energy Introduction
2. Community Benefits
3. Project Overview and Need
4. Regulatory Review
5. Electric System Benefits
6. Routing and Siting Studies
7. Provide Feedback and Connect
8. Question-and-Answer Session

Xcel Energy

Serving eight states

3.7 million electricity customers

2.1 million natural gas customers

Nationally recognized leader:

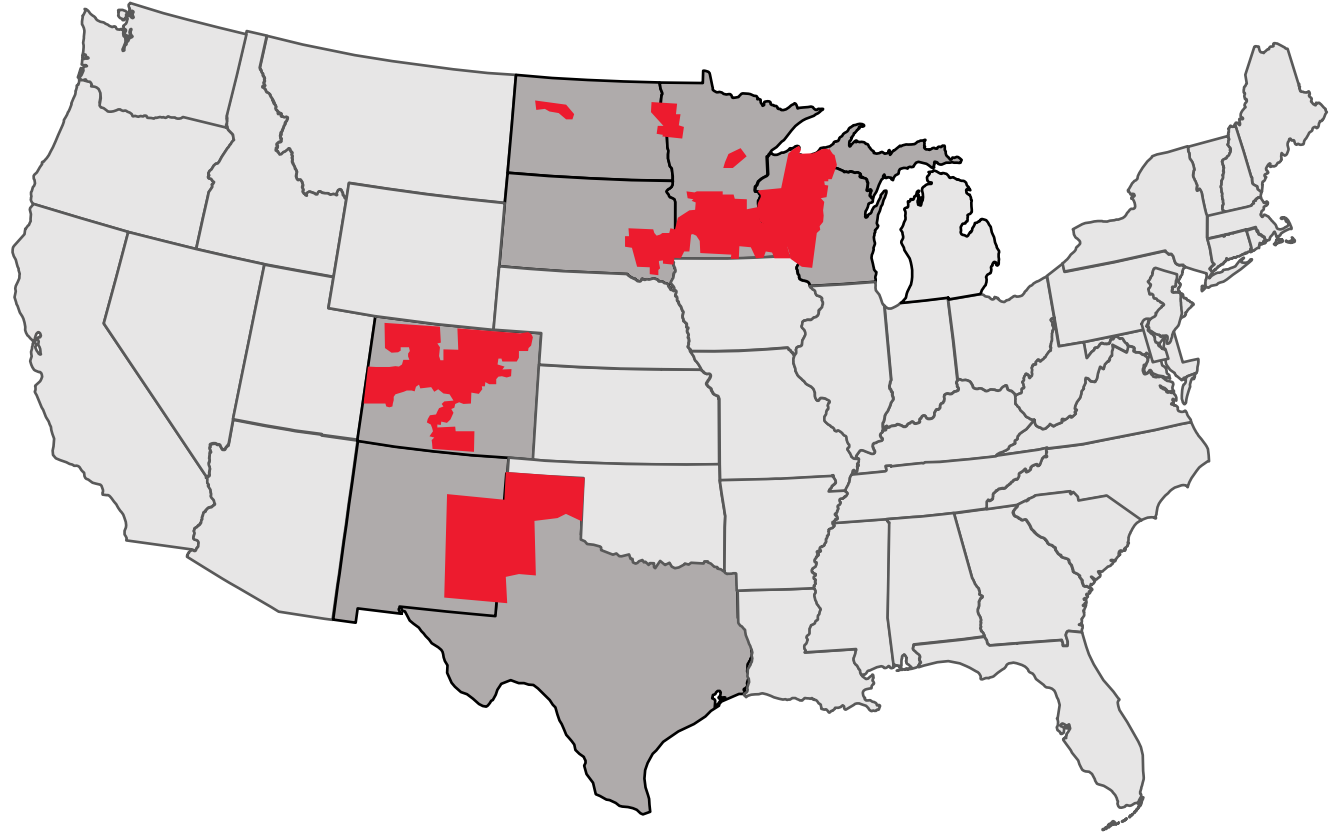
Wind energy

Energy efficiency

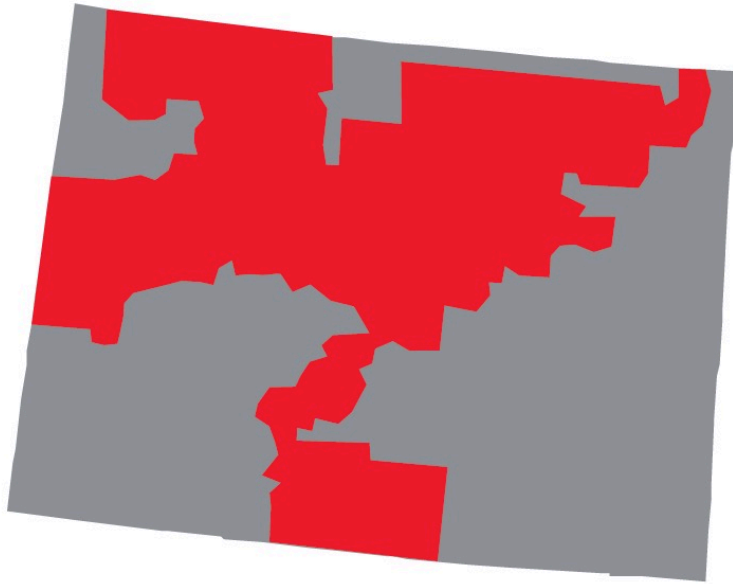
Carbon emissions reductions

Innovative technology

Storm restoration



Xcel Energy Colorado Customers



**1.5 million
Electric
Customers**



**1.4 million
Natural Gas
Customers**



**99.9%
Electric
Reliability**

Benefits to your Community



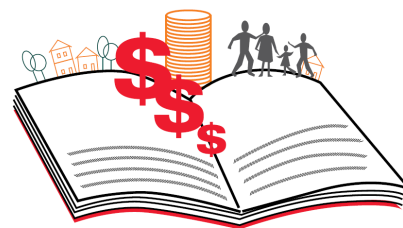
POSITIVE IMPACT

Short and long term positive economic impact



JOBS & REVENUE

New temporary and permanent jobs, lease revenue and increased tax revenue



AND MORE...

Increased reliability of the electric grid for all users and availability for new renewable energy projects

Cheyenne Ridge Wind Project Cheyenne and Kit Carson counties



The 500-megawatts generated and carried by 70 miles of transmission line are enough to power 270,000 average Colorado homes.

Over its lifetime, Cheyenne Ridge will produce an estimated \$107 million in landowner payments and \$29 million in new tax revenue for surrounding communities and counties.

More than 200 workers built the project and 24 full-time operations and maintenance jobs were created.

Colorado's Power Pathway

\$1.7 to \$2 billion dollar investment

New double-circuit 345-kilovolt electric transmission line

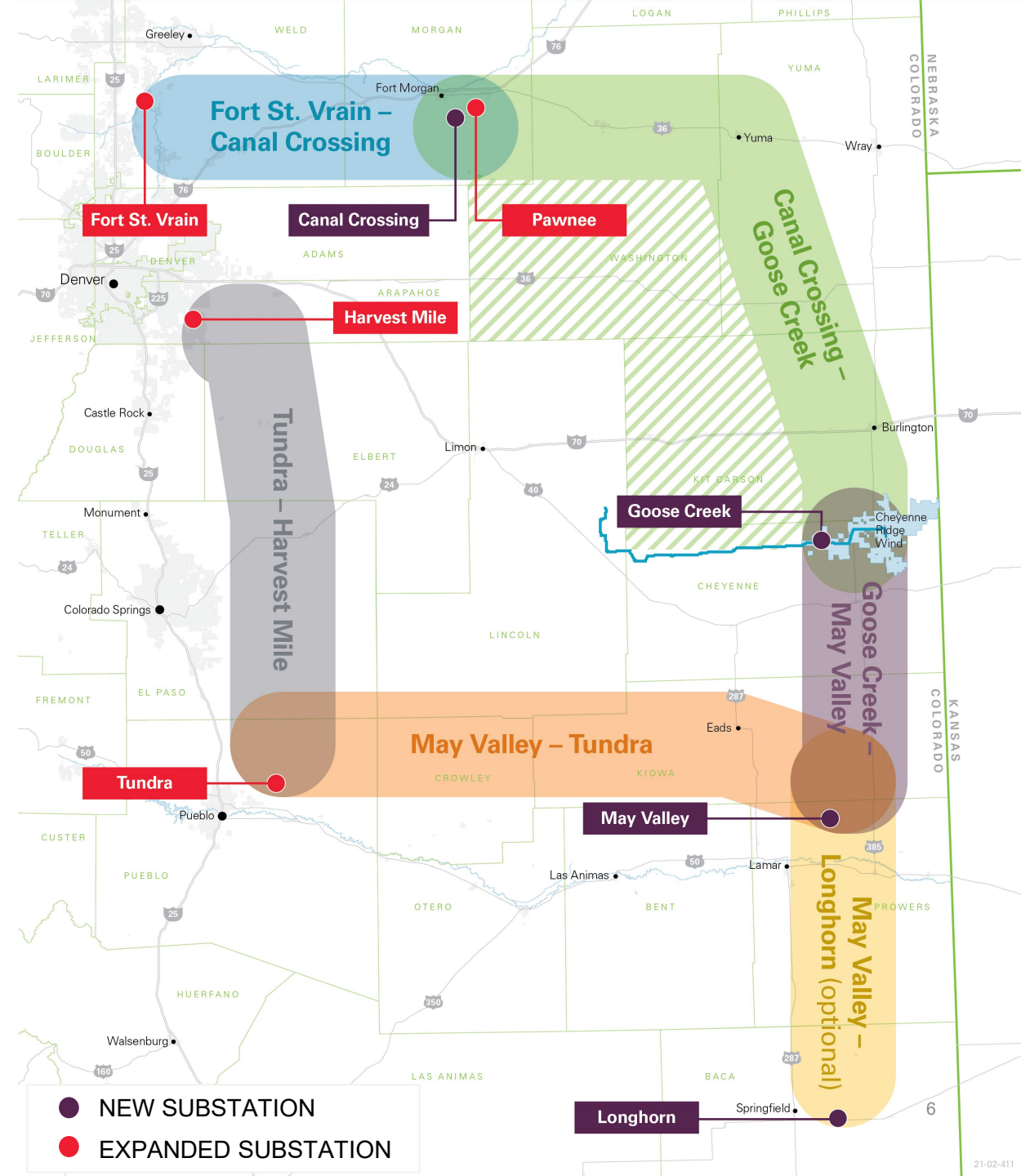
About 560 miles divided into 5 segments

- Includes 3 new and 4 expanded substations

Additional 90 miles with the May Valley - Longhorn Extension (MVLE) segment

- Includes 1 new substation
- Access wind in SE corner of the State
- Reduces the number of generation tie lines that may be needed

Access to low-cost wind/solar renewable energy in the Eastern Plains to bring to the Front Range population (demand) centers



Pole and Substation Design

Structures and Right-of-Way (ROW)*

- Single Steel Pole for tangent structures
- Two pole dead-end structures (angles and corners)
- Approximately 105 to 140 feet tall
- Concrete foundations
- 150-foot-wide ROW in most locations

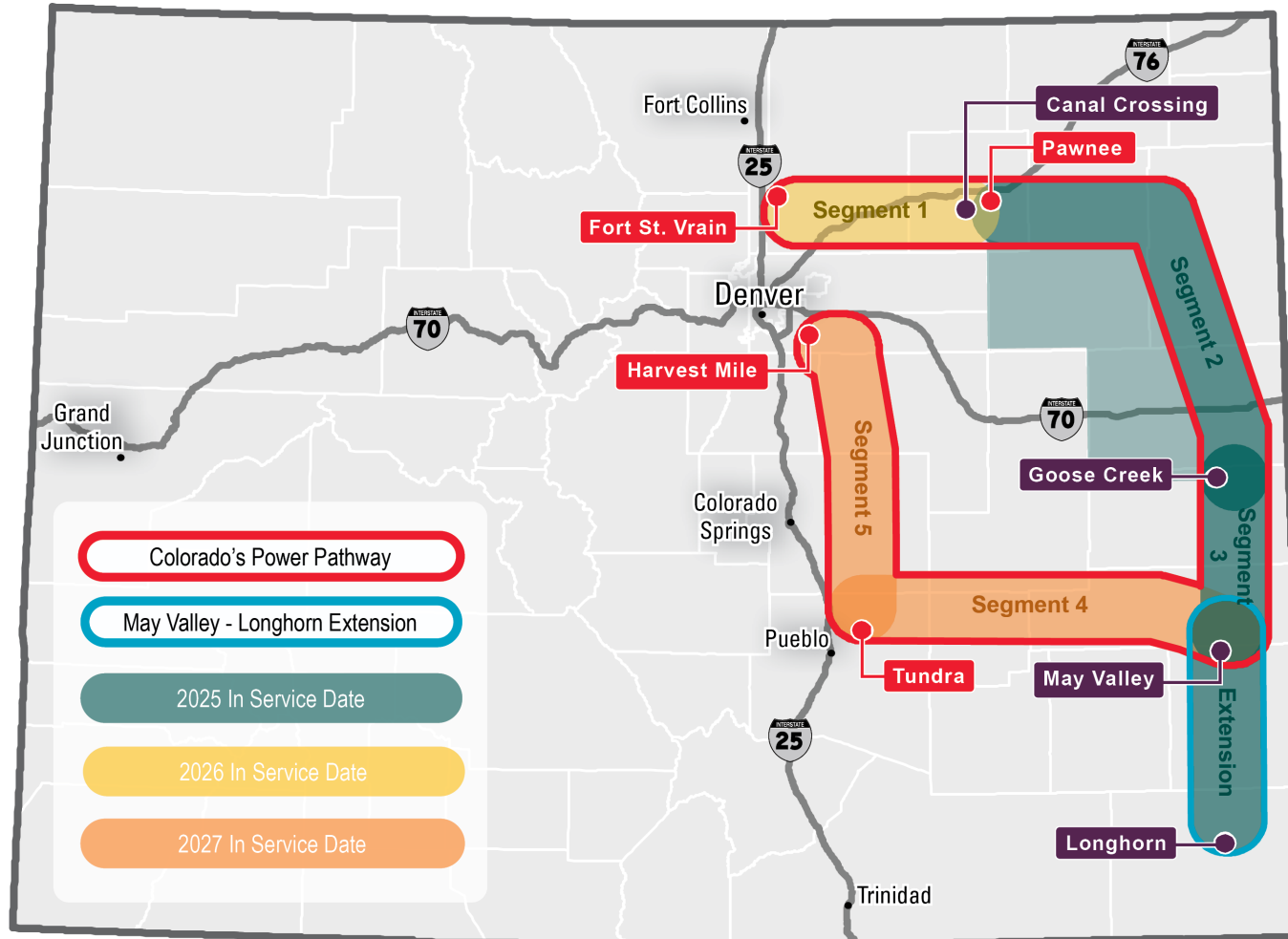


Substations*

- Located on approximately 30 to 60 acres
- Contain electrical equipment to interconnect two or more transmission lines
- May also step up or step-down voltages between the transmission lines

*Subject to change – final design not complete

Developing Colorado's Power Pathway



Benefits of a transmission loop

- Enhances system reliability – can withstand loss of one transmission path without interrupting power flow
- Allows for wind/solar generation diversity on the system

Sequencing of construction

- First segments in-service in 2025 to take advantage of Production Tax Credits
- Other segments in service in 2026 and 2027 allows resource addition to the system in stages

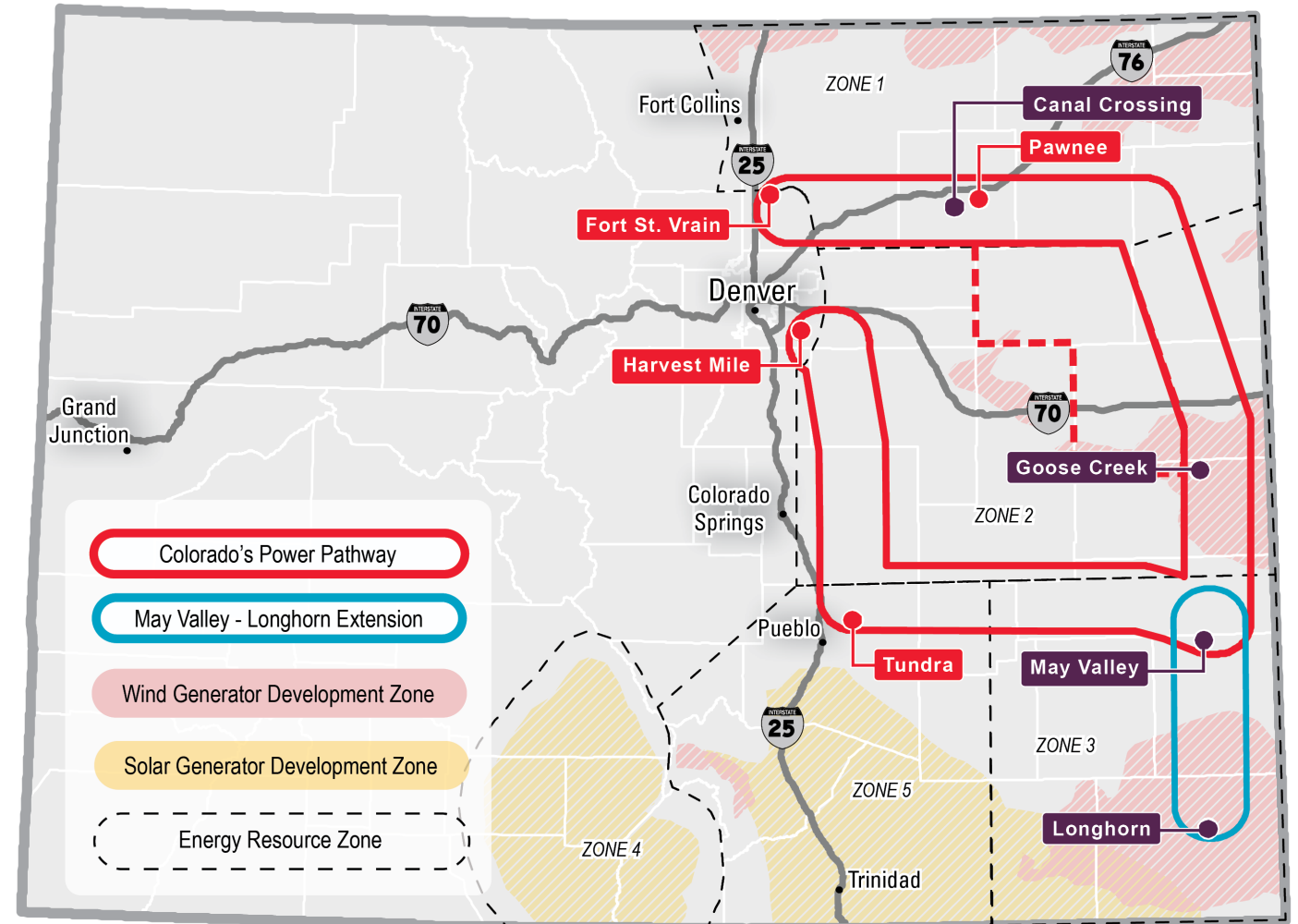
Why is Colorado's Power Pathway Needed?

The Eastern Plains of Colorado is one of the nation's best areas for wind and solar.

- New transmission lines encourage and support the construction of wind and solar power plants to bring more low-cost electricity to help meet the needs of our growing state.

Colorado's Power Pathway supports Xcel Energy's Clean Energy Plan that will add ~5000 megawatts of new wind, solar and other resources through 2030 to:

- meet the state's growing electricity needs reliably and affordably
- meet the company's goal of 80% lower carbon emissions
- enable the state's transition to clean energy



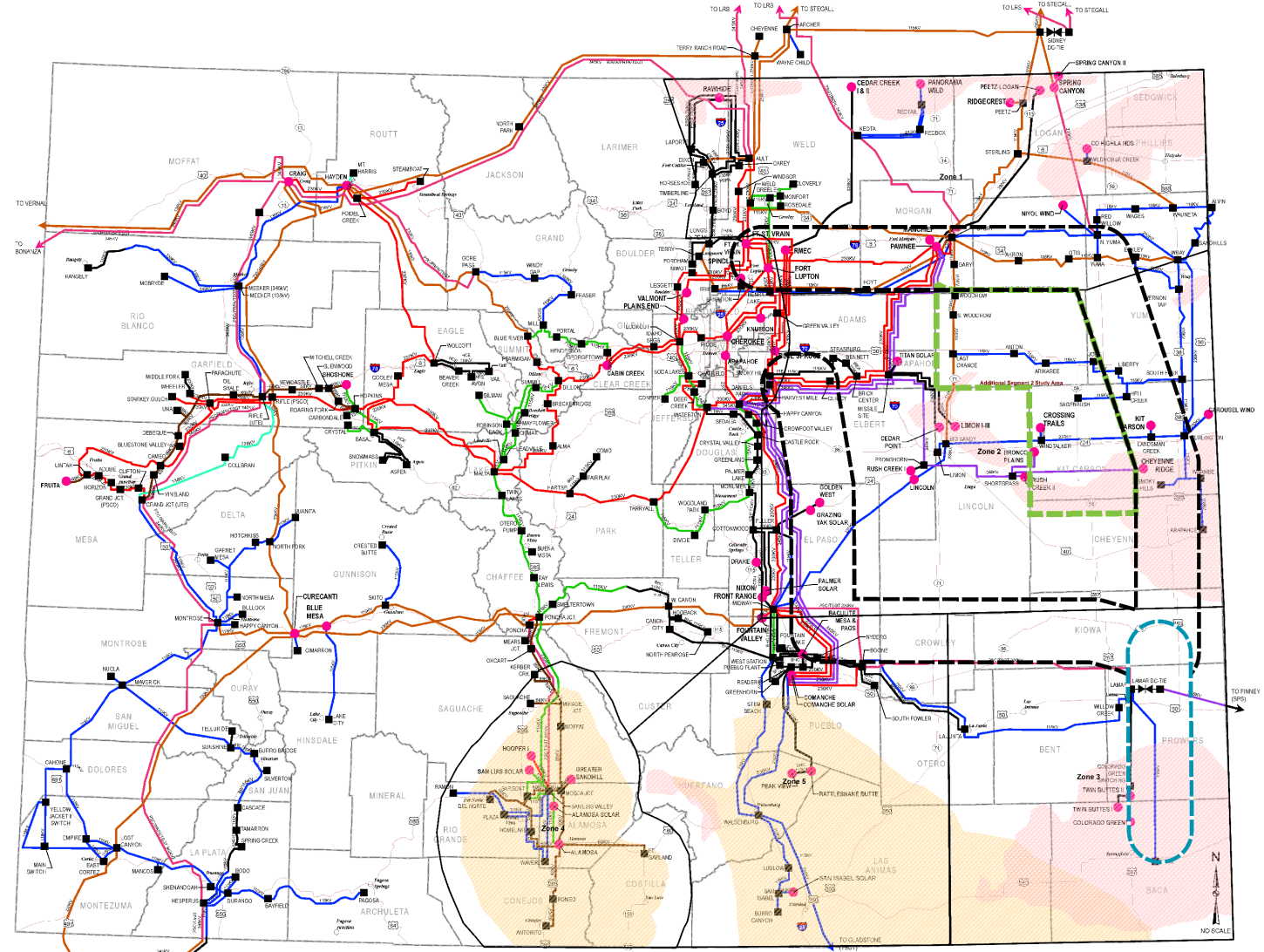
Why is Colorado's Power Pathway Needed?

Existing transmission in eastern plains primarily serves local needs

- is nearly “full” due to existing and new generation expected by 2024
- additional transmission capacity needed to integrate more renewable generation

Colorado's Power Pathway provides high voltage "backbone" transmission

- positive impact on jobs and tax revenue in rural areas



Regulatory Review

Colorado's Power Pathway requires approval from the Colorado Public Utilities Commission (CPUC)

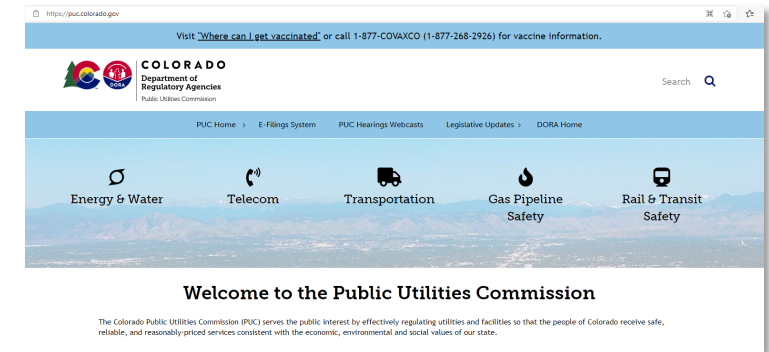
- In March 2021, we filed for a Certificate of Public Convenience and Necessity (CPCN)
- The CPUC follows a procedural schedule to determine if the project is in the public interest
- Procedural activities include the review of filed testimony, interventions, hearings, statements of position and opportunity for public comment

CPUC decision deadline is February 1, 2022



Xcel Energy's application with the CPUC for Colorado's Power Pathway can be found by visiting the Public Utilities Commission website, puc.colorado.gov. Navigate to E-Filings and enter **Proceeding No. 21A-0096E** in the Search field.

Xcel Energy's 2021 Electric Resource Plan filing can be found by entering **Proceeding number 21A-0141E**.



Visit the CPUC website to view regulatory documents associated with the project, including notices, filings, public comments and more.

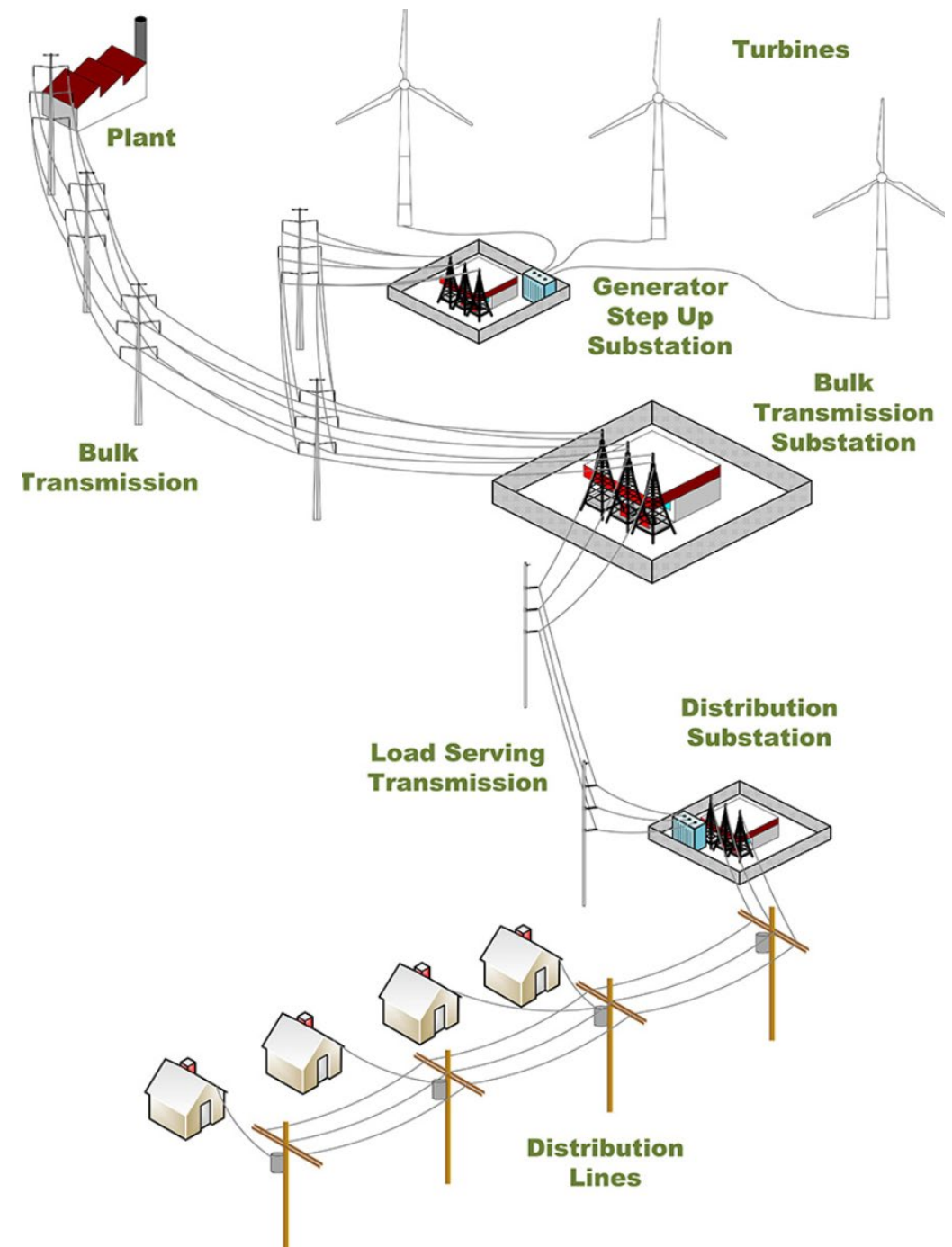
Filing materials can also be found on [Colorado's Power Pathway Regulatory Filings](#) webpage or the [2021 Clean Energy Plan Filings](#) webpage.

Electric System Benefits

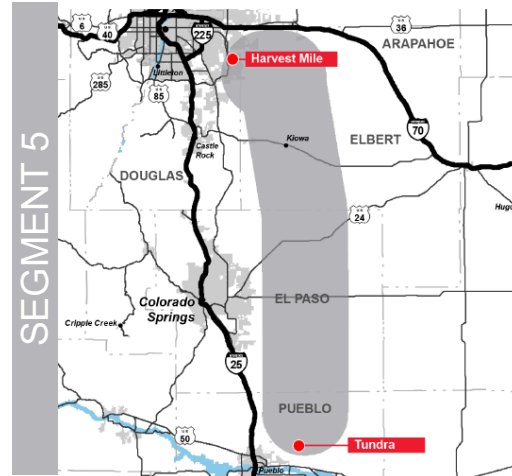
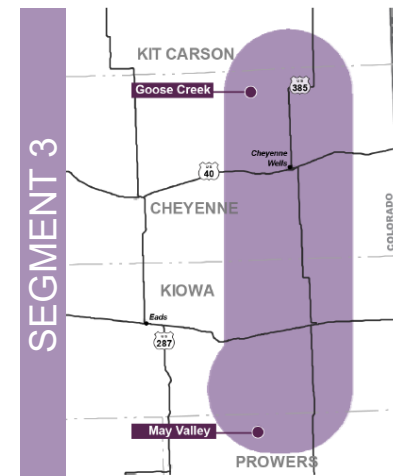
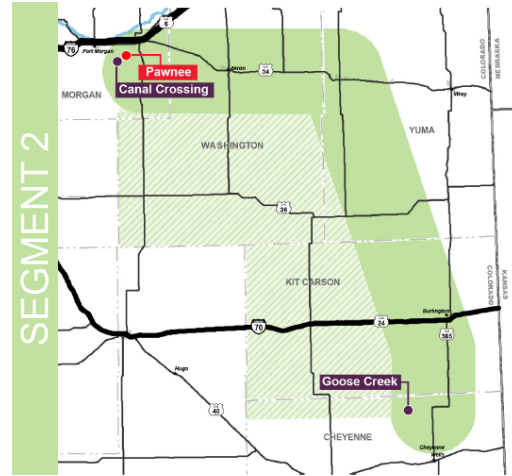
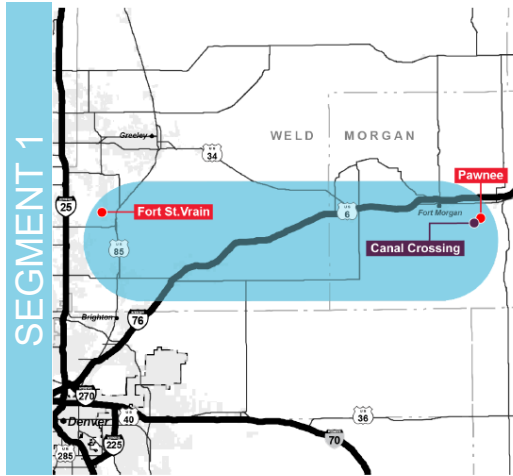
Transmission is the backbone of the electricity network – supporting generation and distribution

- Networked transmission system supports all utilities and cooperatives in the state
- Coordinated transmission system planning approach in Colorado
- Transmission expansion improves resource availability and reliability for all electricity users

Colorado's Power Pathway will bring benefits to Colorado communities and customers



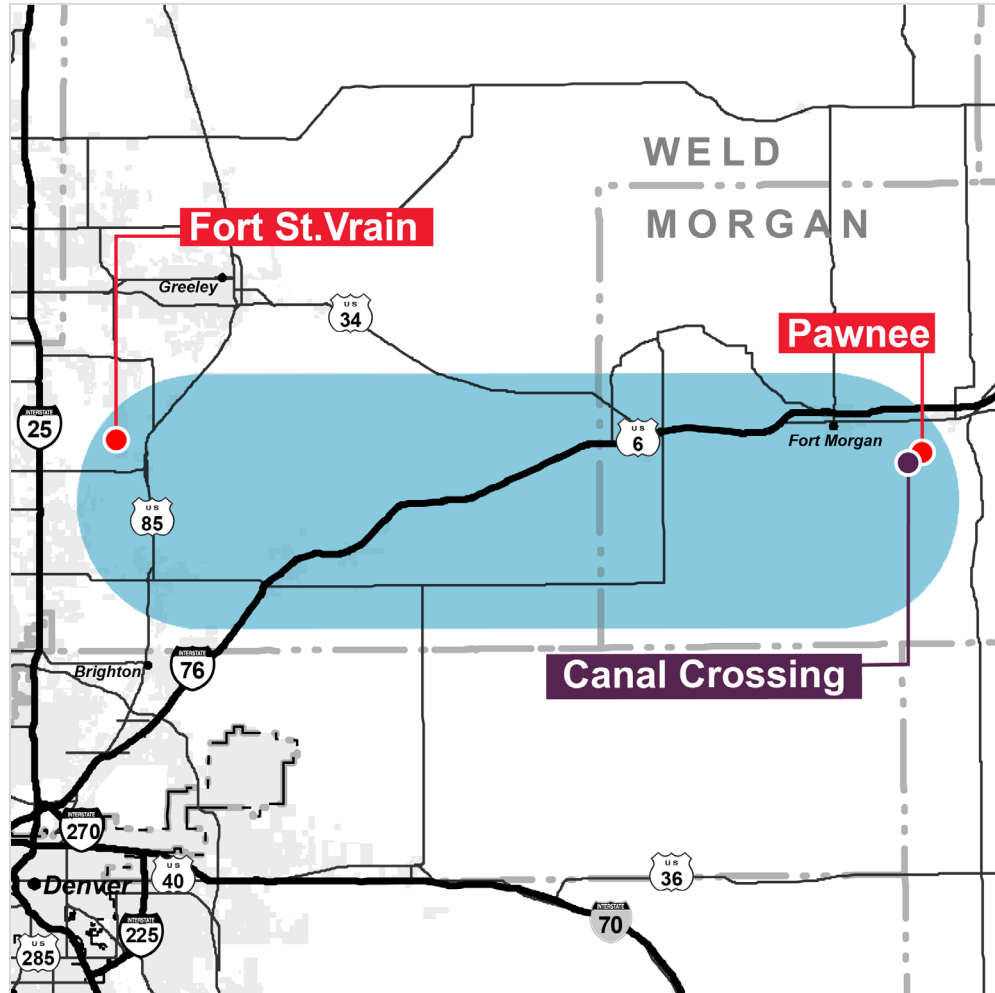
Where Will Colorado's Power Pathway be Located?



Routes for the transmission lines have yet to be determined, we estimate the system will span more than a dozen counties.

- 20-mile-wide Transmission Study Areas identified between substation end points
- 20-mile-wide Substation Siting Areas for Goose Creek, May Valley and Longhorn substations
- Expanded substations and Canal Crossing located on property currently owned by Xcel Energy

Segment 1: Fort St. Vrain – Canal Crossing



Endpoints:

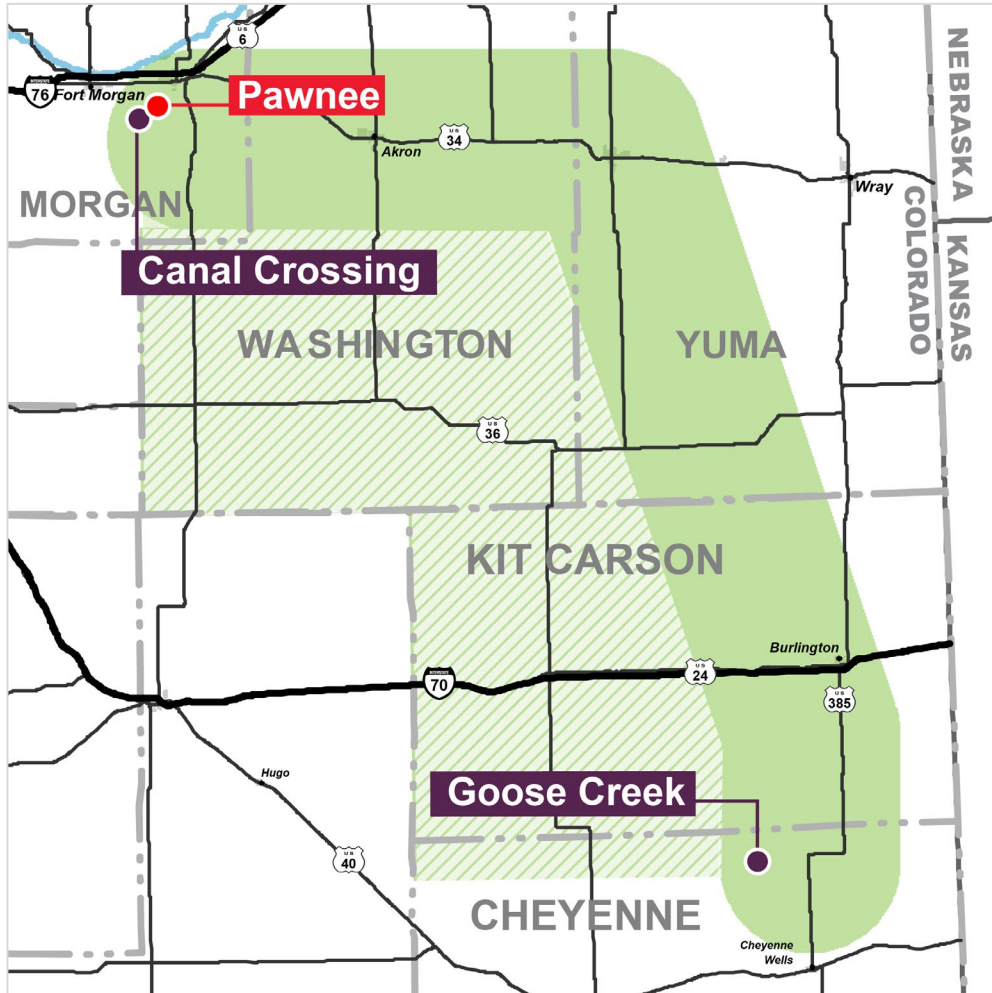
Fort St. Vrain Substation, Canal Crossing Substation

Counties in Study Area: Morgan, Weld

Schedule

- Current Activities: Routing and Siting Studies
- Permitting: 2022-2023
- Construction: 2024-2026
- In-service: 2026

Segment 2: Canal Crossing – Goose Creek



Endpoints:

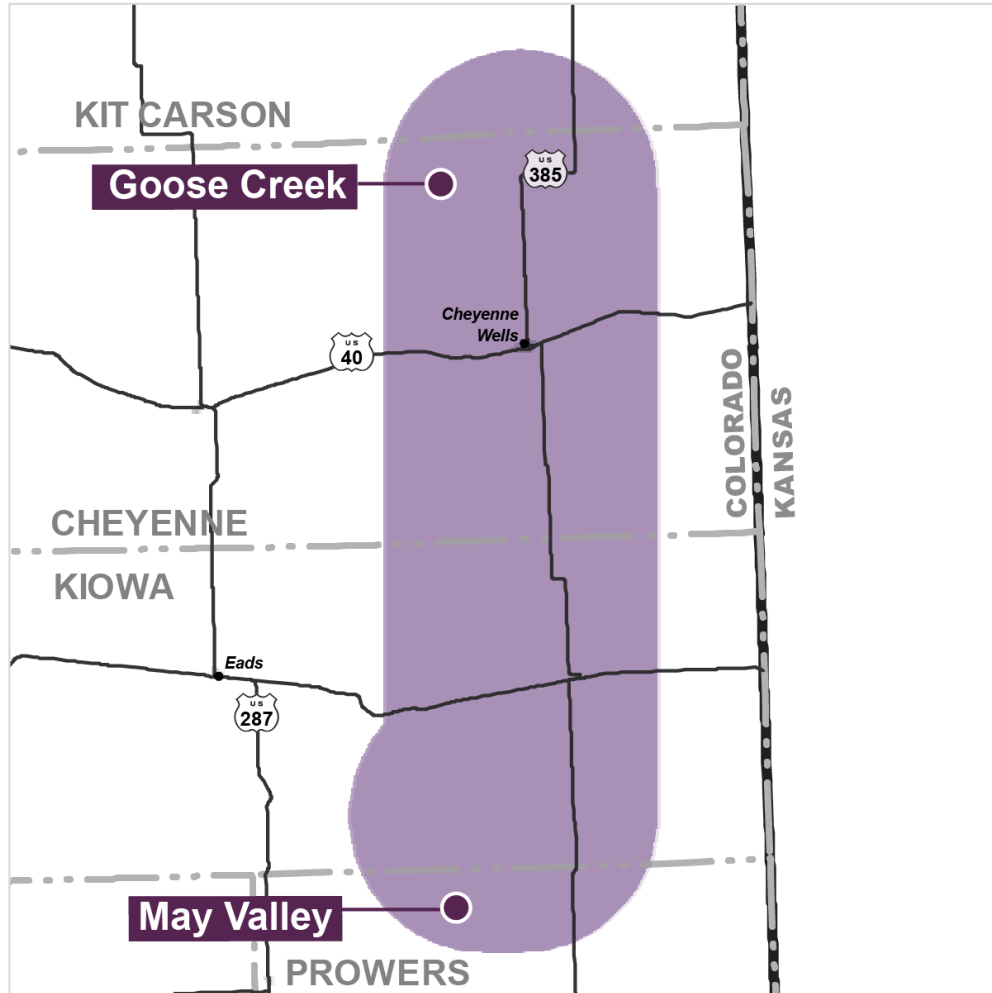
Canal Crossing Substation, Goose Creek Substation

Counties in Study Area: Cheyenne, Kit Carson, Morgan, Washington, Yuma

Schedule

- Current Activities: Routing and Siting Studies
- Permitting: 2022-2023
- Construction: 2023-2025
- In-service: 2025

Segment 3: Goose Creek – May Valley



Endpoints:

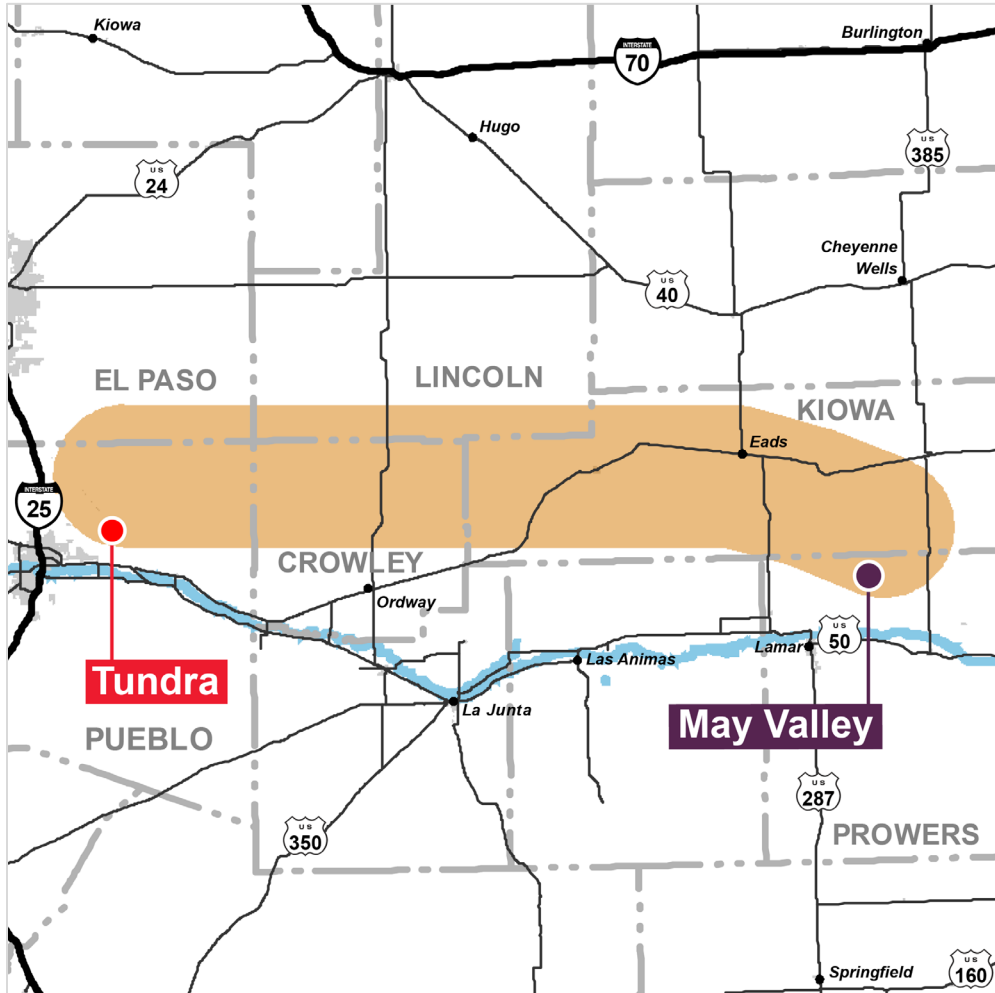
Goose Creek Substation, May Valley Substation

Counties in Study Area: Cheyenne, Kiowa, Prowers, Kit Carson

Schedule

- Current Activities: Routing and Siting Studies
- Permitting: 2022-2023
- Construction: 2023-2025
- In-service: 2025

Segment 4: May Valley – Tundra



Endpoints:

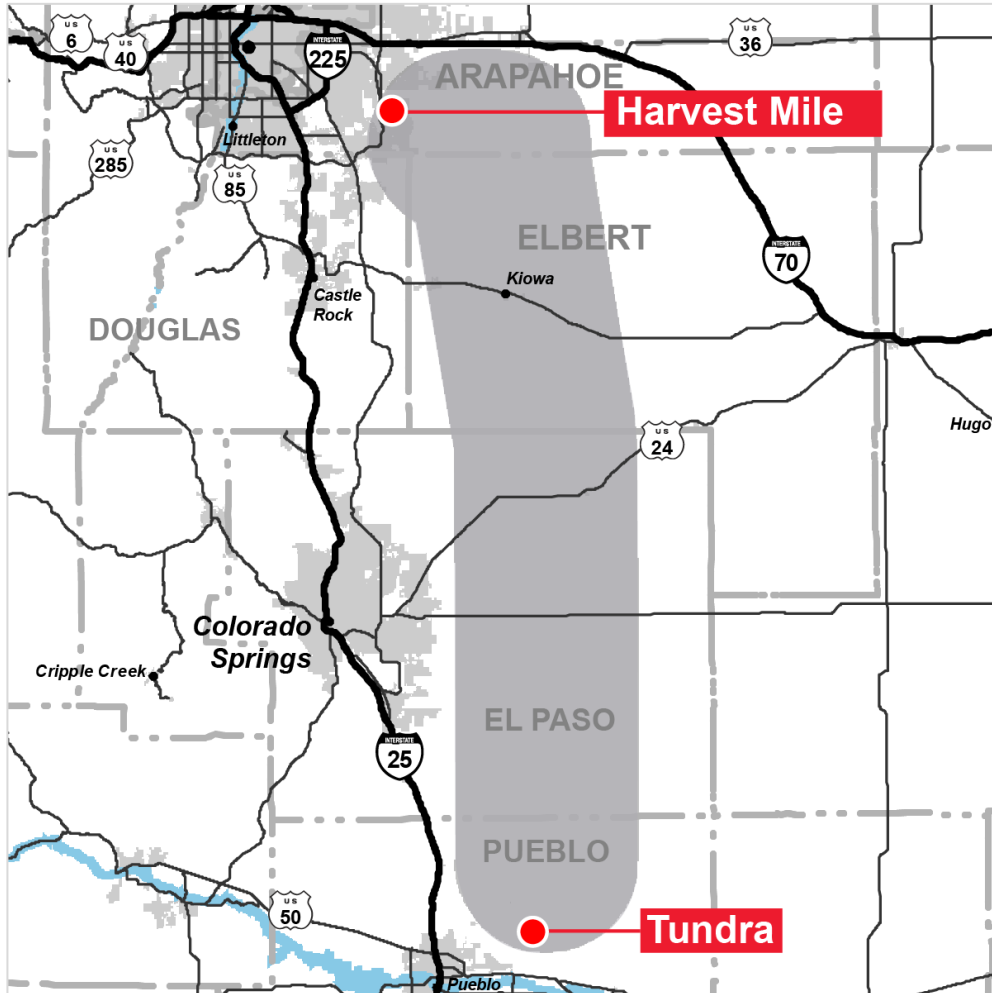
May Valley Substation, Tundra Substation

Counties in Study Area: Crowley, Kiowa, Prowers, Pueblo, El Paso, Lincoln

Schedule

- Current Activities: Routing and Siting Studies
- Permitting: 2022-2023
- Construction: 2025-2027
- In-service: 2027

Segment 5: Tundra – Harvest Mile



Endpoints:

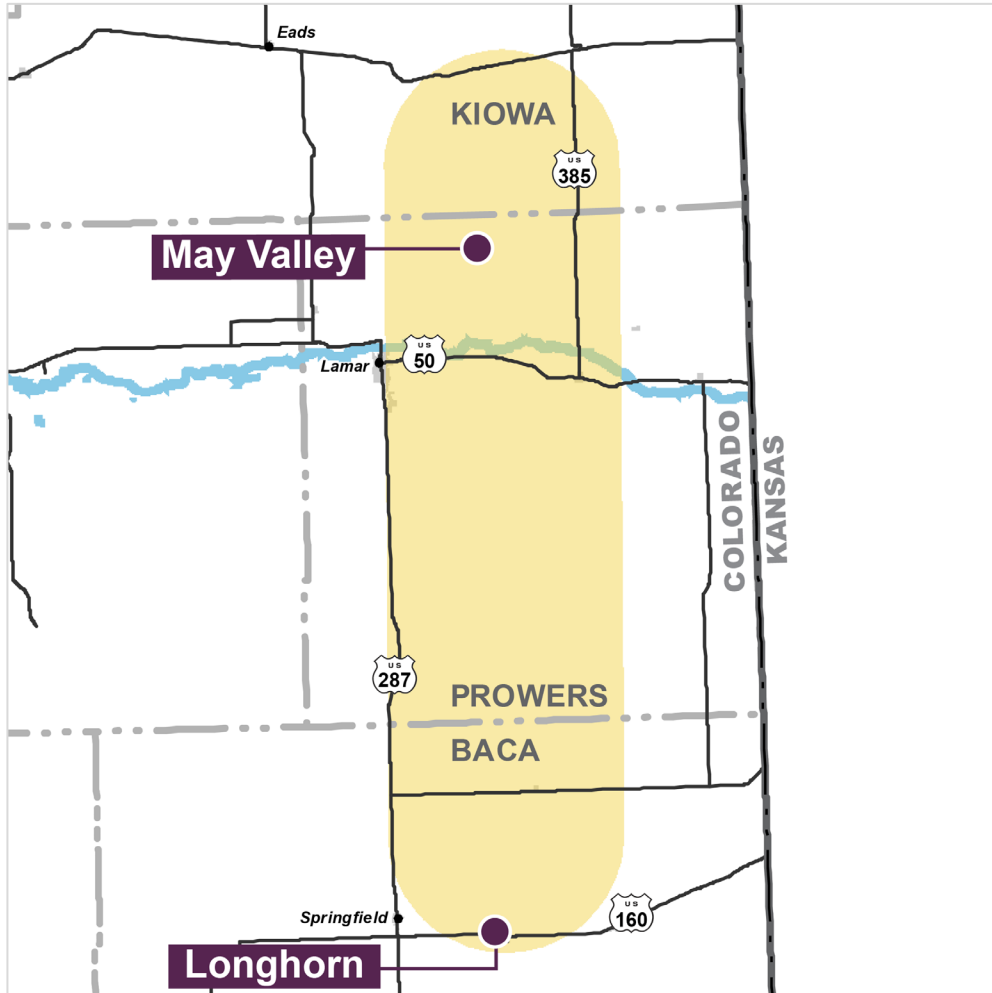
Tundra Substation, Harvest Mile Substation

Counties in Study Area: Arapahoe, El Paso, Elbert, Pueblo, Douglas

Schedule

- Current Activities: Routing and Siting Studies
- Permitting: 2022-2023
- Construction: 2024-2026
- In-service: 2026

May Valley – Longhorn Extension



Endpoints:

May Valley Substation, Longhorn Substation

Counties in Study Area: Baca, Prowers, Kiowa

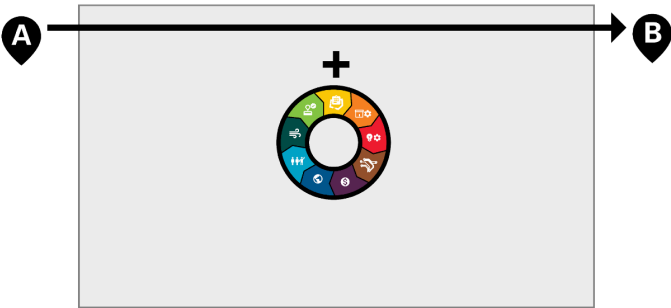
Schedule

- Current Activities: Routing and Siting Studies
- Permitting: 2022-2023
- Construction: 2023-2025
- In-service: 2025

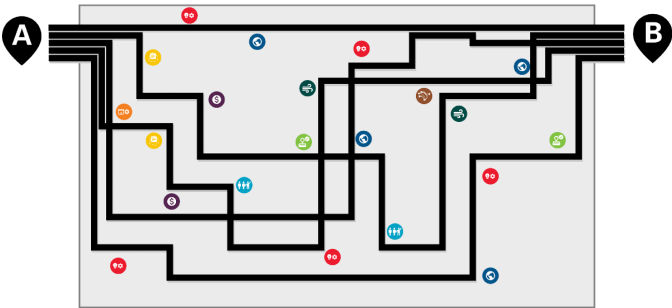
Routing and Siting Considerations



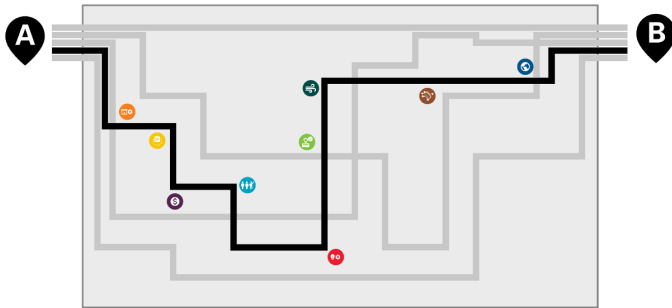
Routing Studies



Project Objective

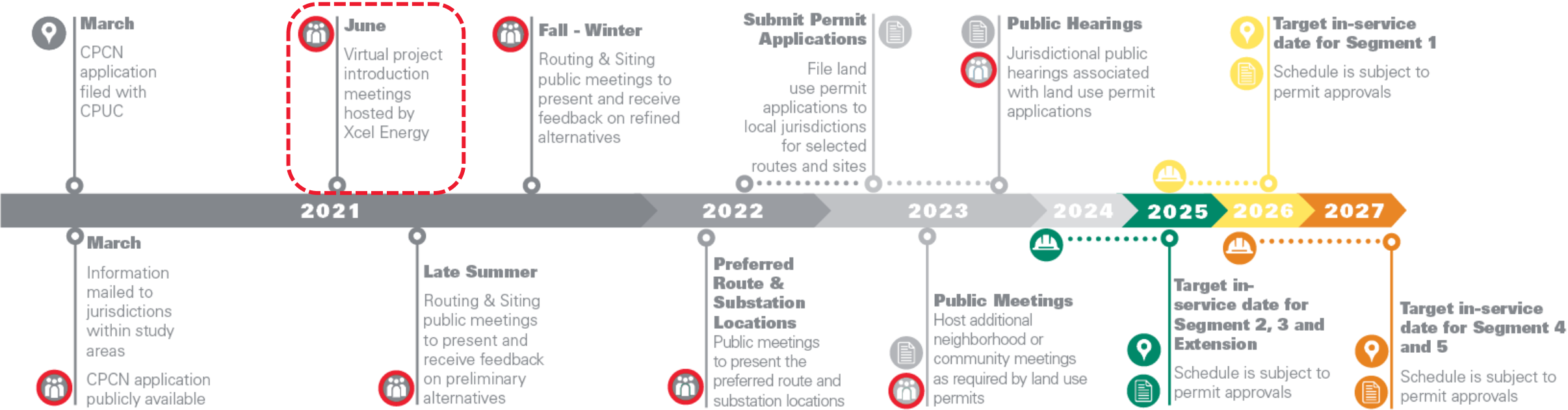


Alternative Routes



Preferred Route

Opportunities to Provide Feedback and Connect





Visit **ColoradosPowerPathway.com** to learn more.

Contact us at **855-858-9037** or
ColoradosPowerPathway@XcelEnergy.com
with questions or comments.

Si necesita asistencia o información en español,
por favor contáctenos directamente al
ColoradosPowerPathway@XcelEnergy.com
o **855-858-9037**

