Appendix F

PSCo – 10 Year Report
Transmission Projects
(2018 through 2030)
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Ault-Cloverly 230/115 kV Transmission Project

Project Sponsor: Public Service Company of Colorado/ Xcel Energy

Additional Project Participants:

Project Description: Build approximately 20 miles of new 230/115 kV transmission and three new substations.

Voltage Class: 230/115 kV
Facility Rating: 220 MVA
Point of Origin/Location: Ault Substation
Point of Termination: Cloverly Substation
Intermediate Points: Husky Substation and Graham Creek substation
Length of Line (in Miles): 20.0
Type of Project: Transmission Line and Substation
Development Status: Planned
Routing:
Subregional Planning Group: CCPG

Purpose of Project: To increase reliability, load-serving capability and resource interconnection in northeast Greeley.

Project Driver (Primary): Reliability
Project Driver (Secondary): Load-serving capability and resource interconnection

Estimated Cost: $66,700,000

Schedule:
Construction Date: TBD
Planned In-Service Date: 2022
Regulatory Date: Permitting Info: Ongoing
Permitting Date: Ongoing

Contact Information: Thomas Green
Email thomas.green@xcelenergy.com
Phone 303-571-7223
Website Information http://www.transmission.xcelenergy.com/Projects/Colorado
Avery Substation

Project Sponsor: Public Service Company of Colorado/ Xcel Energy

Additional Project Participants:

Project Description: New distribution substation located in Weld County. The new substation will tap Platte River Power Authority (PRPA) Ault – Cloverly – Timberline 230kV transmission line.

Voltage Class: 230 kV
Facility Rating: N/A
Point of Origin/Location: Avery Substation
Point of Termination: Avery Substation
Intermediate Points: N/A
Length of Line (in Miles): N/A
Type of Project: Substation
Development Status: Planned
Routing:
Subregional Planning Group: CCPG

Purpose of Project: Serve load growth in the Timnath area.
Project Driver (Primary): Reliability
Project Driver (Secondary):

Estimated Cost: $10,300,000

Schedule:
Construction Date: 2020
Planned In-Service Date: 2021
Regulatory Date:
Permitting Info:
Permitting Date:

Contact Information: Thomas Green
Email thomas.green@xcelenergy.com
Phone 303-571-7223
Website Information http://www.transmission.xcelenergy.com/Projects/Colorado
Avon - Gilman 115 kV Transmission Line

Project Sponsor: Public Service Company of Colorado/ Xcel Energy

Additional Project Participants:

Project Description: New 115 kV line between Avon and Gilman substations. Also includes a new capacitor bank installation at Vail Substation. Line would be operated normally open but used for emergency backup.

Voltage Class: 115 kV
Facility Rating: 159 MVA
Point of Origin/Location: Gilman Substation
Point of Termination: Avon Substation
Intermediate Points:
Length of Line (in Miles): 10.0
Type of Project: Transmission Line
Development Status: Planned
Routing:
Subregional Planning Group: CCPG

Purpose of Project: Improve reliability of the HCEA system.
Project Driver (Primary): Reliability
Project Driver (Secondary):

Estimated Cost: $11,400,000

Schedule:
Construction Date:
Planned In-Service Date: 2022
Regulatory Info: CPUC: No CPCN required for this project pursuant to Decision No. C15-0590, Proceeding No. 15M-0043E.

Regulatory Date:
Permitting Info:
Permitting Date:

Contact Information: Thomas Green
Email thomas.green@xcelenergy.com
Phone 303-571-7223
Website Information
## Bluestone Substation

**Project Sponsor:** Public Service Company of Colorado/ Xcel Energy  
**Additional Project Participants:**  
**Project Description:**  
Phase- I: Bluestone Valley 69 kV Switching station tapping the DeBeque – Cameo 69 kV line.  
Phase- II: The 230kV portion of the Bluestone Valley Substation project will include tapping the Rifle – Parachute 230 kV line and installing a 230/69 kV transformer to interconnect the 230 kV and 69 kV voltages.

<table>
<thead>
<tr>
<th><strong>Voltage Class</strong></th>
<th>Phase-I: 69 kV, Phase-II: 230 kV</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Facility Rating</strong></td>
<td>N/A</td>
</tr>
</tbody>
</table>
| **Point of Origin/Location** | Phase-I: Bluestone Valley Substation  
Phase-II: Bluestone Valley Substation |
| **Point of Termination** | Phase-I: Bluestone Valley Substation  
Phase-II: Bluestone Valley Substation |
| **Intermediate Points:** |  
| **Length of Line (in Miles):** |  
| **Type of Project:** | Substation |
| **Development Status:** | Phase – I: Completed 2019, Phase – II Conceptual |
| **Routing:** |  
| **Subregional Planning Group:** | CCPG |

**Purpose of Project:**  
Phase – I: improve reliability of the 69 kV system.  
Phase – II: Provide load service for PSCo and improve reliability of Grand Valley Power (GVP) customers in the area.

**Project Driver (Primary):** Phase-I: Reliability  
**Project Driver (Secondary):** Phase-II: Load Service and Reliability

**Estimated Cost :**  
Phase-I: $12,000,000  
Phase-2: TBD

**Schedule:**  
**Construction Date:**  
**Planned In-Service Date:** Phase-I: 2019, Phase-II: TBD  
**Regulatory Info:** CPUC: No CPCN required, Decision No.C09-0681, Proceeding No.09M-392E.  
**Permitting Date:**

**Contact Information:**  
**Email**  
**Phone**  
**Website Information**  
Tom Green  
thomas.green@xcelenergy.com  
303-571-7223
# CEPP Switching Station Bid S085

**Project Sponsor:** Public Service Company of Colorado/ Xcel Energy  
**Additional Project Participants:**

**Project Description:** Construct new 230 kV switching station to integrate generation

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
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<tbody>
<tr>
<td>Voltage Class</td>
<td>230 kV</td>
</tr>
<tr>
<td>Facility Rating:</td>
<td></td>
</tr>
<tr>
<td>Point of Origin/Location:</td>
<td></td>
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<tr>
<td>Point of Termination:</td>
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<td>Intermediate Points:</td>
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<td>Length of Line (in Miles):</td>
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<tr>
<td>Type of Project:</td>
<td>Substation</td>
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<td>Development Status:</td>
<td>Planned</td>
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<td>Routing:</td>
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<tr>
<td>Subregional Planning Group:</td>
<td>CCPG</td>
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</table>

**Purpose of Project:** Accommodate future interconnections of renewables.

**Project Driver (Primary):** Generation  
**Project Driver (Secondary):**

**Estimated Cost:** $12,000,000  
**Schedule:**

<table>
<thead>
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**Contact Information:**

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<td><a href="mailto:thomas.green@xcelenergy.com">thomas.green@xcelenergy.com</a></td>
</tr>
<tr>
<td>Phone</td>
<td>303-571-7223</td>
</tr>
<tr>
<td>Website Information</td>
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</tr>
</tbody>
</table>
CEPP Switching Station Bid X645

Project Sponsor: Public Service Company of Colorado/ Xcel Energy

Additional Project Participants:

Project Description: Construct new 345 kV switching station to integrate generation

Voltage Class: 345 kV
Facility Rating:
Point of Origin/Location:
Point of Termination:
Intermediate Points:
Length of Line (in Miles):
Type of Project: Substation
Development Status: Planned
Routing:
Subregional Planning Group: CCPG

Purpose of Project: Accommodate future interconnections of renewables.

Project Driver (Primary): Generation
Project Driver (Secondary):

Estimated Cost: $20,000,000

Schedule:
Construction Date: 2022
Planned In-Service Date:
Regulatory Info: CPUC: CPCN required, Decision No. C18-0761, Proceeding No. 16A-0396E.
Regulatory Date:
Permitting Info:
Permitting Date:

Contact Information: Thomas Green
Email thomas.green@xcelenergy.com
Phone 303-571-7223
Website Information
CEPP Voltage Support

**Project Sponsor:** Public Service Company of Colorado/ Xcel Energy

**Additional Project Participants:**

**Project Description:** A series of voltage control devices required to accommodate the Company’s CEP portfolio of generation.

<table>
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<th>Various</th>
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</thead>
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<tr>
<td>Point of Termination:</td>
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<td>Intermediate Points:</td>
<td></td>
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<td>Length of Line (in Miles):</td>
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<tr>
<td>Type of Project:</td>
<td>Substation</td>
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<tr>
<td>Development Status:</td>
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<tr>
<td>Routing:</td>
<td></td>
</tr>
<tr>
<td>Subregional Planning Group:</td>
<td>CCPG</td>
</tr>
</tbody>
</table>

**Purpose of Project:** Accommodate CEP portfolio of generation.

**Project Driver (Primary):** Generation

**Project Driver (Secondary):**

**Estimated Cost:** $93,600,000

**Schedule:**

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<td>Regulatory Date:</td>
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**Contact Information:**

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<th><a href="mailto:thomas.green@xcelenergy.com">thomas.green@xcelenergy.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>303-571-7223</td>
</tr>
</tbody>
</table>

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CSU Flow Mitigation

Project Sponsor: Public Service Company of Colorado/ Xcel Energy

Additional Project Participants:

Project Description: 115 kV device to mitigate possible overloads due to undesired power flow through the Colorado Springs Utility system.

Voltage Class: 115 kV
Facility Rating: N/A
Point of Origin/Location: TBD
Point of Termination: TBD
Intermediate Points: TBD
Length of Line (in Miles): TBD
Type of Project: TBD
Development Status: Planned
Routing:
Subregional Planning Group: CCPG

Purpose of Project: Improve reliability of the Colorado Springs Utilities system.

Project Driver (Primary): Reliability
Project Driver (Secondary):

Estimated Cost: TBD

Schedule:
Construction Date: TBD
Planned In-Service Date: 2022
Regulatory Info:
Regulatory Date:
Permitting Info:
Permitting Date:

Contact Information: Thomas Green
Email thomas.green@xcelenergy.com
Phone 303-571-7223
Website Information

Appendix F
Proceeding 20M-0008E
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## Distribution Substations

### Project Sponsor:
Public Service Company of Colorado/ Xcel Energy

### Additional Project Participants:

### Project Description:
New distribution substations – Barker, Wilson, Titan, Dove Valley, High Point, Stock Show, New Castle, Solterra, Superior and Sandy Creek. These substations are driven by load growth. The transmission portion of the project includes an in-and-out line tap to interconnect the new distribution substation and the associated equipment.

### Voltage Class:
Various

### Facility Rating:
N/A

### Point of Origin/Location:
Corresponding distribution Substation

### Point of Termination:
Corresponding distribution Substation

### Intermediate Points:

### Length of Line (in Miles):
Substation

### Type of Project:
Barker, Titan, Dove Valley, High Point, Stock Show – Planned
New Castle, Solterra, Superior, Sandy Creek, Wilson - Conceptual

### Purpose of Project:
Load service.

### Project Driver (Primary):
Reliability

### Project Driver (Secondary):

### Estimated Cost:
Wilson - $4M, Barker - $29.8M , New Castle - TBD
Titan - $13M, Dove Valley - TBD, High Point - $9M, Stock Show - TBD,
Solterra - TBD, Superior - TBD, Sandy Creek - TBD

### Schedule:
Construction Date: Barker – 2021; Titan, High Point – 2022; Dove Valley – 2023; Stock Show – 2026;
New Castle, Solterra, Superior, Sandy Creek, Wilson - TBD

### Regulatory Info:

### Contact Information:
- Email: thomas.green@xcelenergy.com
- Phone: 303-571-7223

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**Appendix F**
Proceeding 20M-0008E
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Glenwood - Rifle 69/115 kV Upgrade

Project Sponsor: Public Service Company of Colorado/ Xcel Energy

Additional Project Participants:

Project Description: The project consists of the upgrading the Glenwood Springs – Rifle 69kV line to 115kV.

Voltage Class: 115 kV
Facility Rating: 191 MVA
Point of Origin/Location: Glenwood Substation
Point of Termination: Rifle Substation
Intermediate Points: Mitchell Creek & New Castle Substations
Length of Line (in Miles): 26.0
Type of Project: Transmission Line
Development Status: Conceptual
Routing:
Subregional Planning Group: CCPG

Purpose of Project: Reliability and load growth
Project Driver (Primary): Reliability
Estimated Cost: TBD

Schedule:
   Construction Date: TBD
   Planned In-Service Date: TBD
   Regulatory Info: CPUC: No CPCN required.
   Regulatory Date: 
   Permitting Info: 
   Permitting Date: 

Contact Information: Thomas Green
   Email: thomas.green@xcelenergy.com
   Phone: 303-571-7223
   Website Information: 
Greenwood – Denver Terminal 230kV Line

Project Sponsor: Public Service Company of Colorado/ Xcel Energy

Additional Project Participants:

Project Description: Construct a new 230 kV transmission line between the existing Greenwood and Denver Terminal substation within existing right-of-way. The new line will be implemented by rebuilding existing facilities from Greenwood to Denver Terminal.

Voltage Class: 230kV
Facility Rating: 576 MVA
Point of Origin/Location: Greenwood
Point of Termination: Denver Terminal
Intermediate Points:
Length of Line (in Miles): 15
Type of Project: Transmission
Development Status: Planned
Routing:
Subregional Planning Group: CCPG

Purpose of Project: To accommodate CEP portfolio of generation and mitigate potential overloads.

Project Driver (Primary): Reliability
Project Driver (Secondary): Generation

Estimated Cost: $50,300,000

Schedule:
Construction Date: 
Planned In-Service Date: 2022
Regulatory Info: CPUC: CPCN required, Decision No. C18-0761, Proceeding No. 16A-0396E.
Regulatory Date: 
Permitting Info: 
Permitting Date: 

Contact Information: Thomas Green
Email thomas.green@xcelenergy.com
Phone 303-571-7223
Website Information
Hayden - Foidel - Gore 230kV Line Tap

Project Sponsor: Public Service Company of Colorado/ Xcel Energy

Additional Project Participants:

Project Description: Tap the Hayden – Gorepass 230kV line at the existing Foidel Creek Substation. The Wolcott reactor project was an interim solution to address near-term voltage issues, but long-term alternatives will need to be identified.

- Voltage Class: 230 kV
- Facility Rating: N/A
- Point of Origin/Location: Foidel Creek Substation
- Point of Termination: Foidel Creek Substation
- Intermediate Points:
- Length of Line (in Miles): 800ft in-and-out tap
- Type of Project: Transmission
- Development Status: Conceptual
- Routing:
- Subregional Panning Group: CCPG

Purpose of Project: Improve reliability of the Wolcott area.
- Project Driver (Primary): Reliability
- Project Driver (Secondary):

Estimated Cost: TBD

Schedule:
- Construction Date:
- Planned In-Service Date: TBD
- Regulatory Info: CPUC: CPCN required.
- Regulatory Date:
- Permitting Info:
- Permitting Date:

Contact Information: Thomas Green
- Email: thomas.green@xcelenergy.com
- Phone: 303-571-7223
- Website Information
Approximate Location of the Foidel Creek 230 kV Line Tap Project
Lamar-Front Range Transmission Project

Project Sponsor: Tri-State Generation & Transmission Inc.

Additional Project Participants: Public Service Company of Colorado/ Xcel Energy

Project Description: Two high-voltage transmission paths from Lamar Substation – one from Lamar to the Comanche area and a second from Lamar to substations near Brush and/or Deer Trail.

- Voltage Class: 345 kV
- Facility Rating: 2000 MW
- Point of Origin/Location: Lamar, CO
- Point of Termination: TBD: Comanche, Story, Pawnee, Avondale, Lamar, Lamar Energy Center, Burlington, Big Sandy, Missile Site
- Intermediate Points: Burlington, Big Sandy, Boone
- Length of Line (in Miles): 300-350
- Type of Project: Transmission Line
- Development Status: Conceptual
- Routing: Burlington, Big Sandy, Boone
- Subregional Planning Group: CCPG

Purpose of Project: Senate Bill 07-100 Project. Improve reliability of the system in the Lamar area, increase load-serving capability and accommodate future resource interconnection.

- Project Driver (Primary): Public Policy and Reliability
- Project Driver (Secondary): 

Estimated Cost: TBD

Schedule:
- Construction Date: TBD
- Planned In-Service Date: TBD
- Regulatory Info: CPUC: CPCN required, Decision No. C10-0644, Proceeding No. 10M-206E.
- Permitting Info: 
- Permitting Date: 

Contact Information:
- Email: thomas.green@xcelenergy.com
- Phone: 303-571-7223
- Website: http://www.transmission.xcelenergy.com/Projects/Colorado
Lamar-Vilas 230kV Transmission Project

**Project Sponsor:** Public Service Company of Colorado/ Xcel Energy

**Additional Project Participants:** Tri-State Generation & Transmission Inc.

**Project Description:** Approximately 60 miles of new 230 kV transmission from the Lamar Substation to the Vilas Substation

- **Voltage Class:** 230 kV
- **Facility Rating:** 200 MW
- **Point of Origin/Location:** Lamar
- **Point of Termination:** Vilas
- **Intermediate Points:**
  - **Length of Line (in Miles):** 57.0
- **Type of Project:** Transmission Line
- **Development Status:** Conceptual
- **Routing:**
  - **Subregional Planning Group:** CCPG

**Purpose of Project:** Senate Bill 07-100 project for Energy Resource Zone 3

- **Project Driver (Primary):** Public Policy
- **Project Driver (Secondary):**

**Estimated Cost:** TBD

**Schedule:**
- **Construction Date:** TBD
- **Planned In-Service Date:** TBD
- **Regulatory Info:** CPUC: CPCN required, Decision No. C10-0644, Proceeding No. 10M-206E.
- **Regulatory Date:**
- **Permitting Info:**
- **Permitting Date:**

**Contact Information:**
- **Thomas Green**
  - Email: thomas.green@xcelenergy.com
  - Phone: 303-571-7223
  - Website Information: [http://www.transmission.xcelenergy.com/Projects/Colorado](http://www.transmission.xcelenergy.com/Projects/Colorado)
Mirasol (Formerly Badger Hills) Switching Station  
(CEPP Bid X647)

Project Sponsor: Public Service Company of Colorado/ Xcel Energy

Additional Project Participants:

Project Description: New 230 kV Mirasol Substation tapping one Comanche – Midway 230 kV line.

Voltage Class: 345 kV
Facility Rating: N/A
Point of Origin/Location: Mirasol Switching Station
Point of Termination: Mirasol Switching Station
Intermediate Points: N/A
Length of Line (in Miles): N/A
Type of Project: Substation
Development Status: Planned
Routing: Subregional Planning Group: CCPG

Purpose of Project: Provide an interconnection point for future resource additions in the Comanche area.

Project Driver (Primary): Resource interconnection
Project Driver (Secondary): 

Estimated Cost: $12,000,000

Schedule:
Construction Date: TBD
Planned In-Service Date: 2022

Regulatory Date: Permitting Info: Permitting Date: 

Contact Information: Thomas Green
Email thomas.green@xcelenergy.com
Phone 303-571-7223
Website Information
Missile Site – Shortgrass 345 kV Transmission

Project Sponsor: Public Service Company of Colorado/ Xcel Energy

Additional Project Participants:

Project Description: Approximately 40 miles of 345 kV transmission between Missile Site Substation and a new Rush Creek 1 switching station. Approximately 50 miles of 345 kV transmission between Rush Creek 1 and Pronghorn wind generation facilities.

Voltage Class: 345 kV
Facility Rating: 1600 MVA
Point of Origin/Location: Shortgrass Switching Station
Point of Termination: Missile Site Substation
Intermediate Points: 90
Type of Project: Resource accommodation
Development Status: Under Construction
Routing:
Subregional Planning Group: CCPG

Purpose of Project: Accommodate the interconnection of Rush Creek and Pronghorn generation facilities.

Project Driver (Primary): Resource interconnection
Project Driver (Secondary):

Cost: $104,900,000

Schedule:
Construction Date: 
Planned In-Service Date: 2018
Regulatory Info: CPUC: CPCN approved, Decision No. C16-0958, Proceeding No. 16A-0117E.
Regulatory Date:
Permitting Info:
Permitting Date:

Contact Information: Thomas Green
Email thomas.green@xcelenergy.com
Phone 303-571-7223
Website Information: http://www.transmission.xcelenergy.com/Projects/Colorado
Moon Gulch 230 kV Substation

Project Sponsor: Public Service Company of Colorado/ Xcel Energy

Additional Project Participants:

Project Description: A new Moon Gulch Distribution Substation in Jefferson County, tapping the Plains End – Simms 230 kV line.

Voltage Class: 230 kV  
Facility Rating: N/A  
Point of Origin/Location: Moon Gulch Substation  
Point of Termination: Moon Gulch Substation  
Intermediate Points:  
Length of Line (in Miles):  
Type of Project: Substation  
Development Status: Under Construction  
Routing:  
Subregional Planning Group: CCPG  

Purpose of Project: Load growth  
Project Driver (Primary): Reliability  
Project Driver (Secondary):  

Cost: $1,700,000  

Schedule:  
Construction Date:  
Planned In-Service Date: 2018  
Regulatory Info: CPUC: CPCN approved Decision No.C16-0054, Proceeding No. 15A-0929E.  
Regulatory Date: January 20, 2016  
Permitting Info:  
Permitting Date:  

Contact Information: Thomas Green  
Email thomas.green@xcelenergy.com  
Phone 303-571-7223  
Website Information
### NREL Substation

**Project Sponsor:** Public Service Company of Colorado/ Xcel Energy

**Additional Project Participants:**

**Project Description:** New substation tapping the Plainview – Eldorado 115kV line south of Boulder, Colorado

- **Voltage Class:** 115 kV
- **Facility Rating:** N/A
- **Point of Origin/Location:** NREL Substation
- **Point of Termination:** NREL Substation
- **Intermediate Points:**
- **Length of Line (in Miles):** Substation
- **Type of Project:** Substation
- **Development Status:** Planned
- **Routing:**
- **Subregional Planning Group:** CCPG

**Purpose of Project:** Interconnect NREL hybrid generation facility.

**Project Driver (Primary):** Resource interconnection

**Project Driver (Secondary):**

**Estimated Cost:** $10,400,000

**Schedule:**

- **Construction Date:** 2019
- **Planned In-Service Date:** 2020
- **Regulatory Info:** CPUC: No CPCN required, Decision No. C17-0539, Proceeding No. 17M-005E.

**Contact Information:** Thomas Green

- **Email:** thomas.green@xcelenergy.com
- **Phone:** 303-571-7223

**Website Information**
Parachute - Cameo 230 kV #2 Transmission Line

**Project Sponsor:** Public Service Company of Colorado/ Xcel Energy

**Additional Project Participants:**

**Project Description:** Construct approximately 31 miles of new 230kV transmission line between the Parachute and Cameo Substations.

- **Voltage Class:** 230 kV
- **Facility Rating:** 576 MVA
- **Point of Origin/Location:** Parachute Substation
- **Point of Termination:** Cameo Substation
- **Intermediate Points:**
- **Length of Line (in Miles):** 31.0
- **Type of Project:** Transmission Line
- **Development Status:** Conceptual
- **Routing:**
- **Subregional Planning Group:** CCPG

**Purpose of Project:** To improve reliability and support future load growth in the region.

- **Project Driver (Primary):** Reliability
- **Project Driver (Secondary):**

**Estimated Cost:** TBD

**Schedule:**

- **Construction Date:**
- **Planned In-Service Date:** TBD
- **Regulatory Info:** CPUC : CPCN required, Decision No. C10-0644, Proceeding No. 10M-206E.
- **Regulatory Date:**
- **Permitting Info:**
- **Permitting Date:**

**Contact Information:** Thomas Green

- **Email:** thomas.green@xcelenergy.com
- **Phone:** 303-571-7223
- **Website Information**
**Pawnee - Daniels Park 345 kV Transmission Project**

**Project Sponsor:** Public Service Company of Colorado/ Xcel Energy

**Additional Project Participants:**

**Project Description:** 345 kV transmission from Pawnee Substation to the Daniels Park Substation. The project will also result in a new Harvest Mile Substation and a Harvest Mile – Daniels Park 345 kV line.

- Voltage Class: 345 kV
- Facility Rating: 1200 MVA
- Point of Origin/Location: Pawnee
- Point of Termination: Daniels Park
- Intermediate Points: Missile Site, Harvest Mile, Smoky Hill Substations
- Length of Line (in Miles): 115.0
- Type of Project: Transmission Line
- Development Status: Planned
- Planned Routing:
  - Subregional Planning Group: CCPG

**Purpose of Project:** SB100. Project would facilitate new resources in Energy Resource Zones 1 and 2.

- Project Driver (Primary): Reliability
- Project Driver (Secondary): Public Policy

**Cost:** $169,400,000

**Schedule:**
- Construction Date: 2019
- Planned In-Service Date: 2019
- Regulatory Info: CPUC: CPCN granted for this project in Decision No. C15-0316, Proceeding No. 14A-0287E.
- Regulatory Date: 
- Permitting Info: Approved
- Permitting Date: 

**Contact Information:**
- Thomas Green
  - Email: thomas.green@xcelenergy.com
  - Phone: 303-571-7223
  - Website Information: [http://www.transmission.xcelenergy.com/Projects/Colorado](http://www.transmission.xcelenergy.com/Projects/Colorado)
## Poncha – Front Range 230 kV Transmission Line

**Project Sponsor:** Public Service Company of Colorado/ Xcel Energy

**Additional Project Participants:**

**Project Description:** Construct a 230 kV transmission line from the Poncha Substation to terminate at a location in the Front Range.

<table>
<thead>
<tr>
<th>Voltage Class:</th>
<th>230 kV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Rating:</td>
<td>1100 MVA</td>
</tr>
<tr>
<td>Point of Origin/Location:</td>
<td>Poncha</td>
</tr>
<tr>
<td>Point of Termination:</td>
<td>Front Range area</td>
</tr>
<tr>
<td>Intermediate Points:</td>
<td></td>
</tr>
<tr>
<td>Length of Line (in Miles):</td>
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</tr>
<tr>
<td>Type of Project:</td>
<td>Transmission Line</td>
</tr>
<tr>
<td>Development Status:</td>
<td>Conceptual</td>
</tr>
<tr>
<td>Routing:</td>
<td></td>
</tr>
<tr>
<td>Subregional Planning Group:</td>
<td>CCPG</td>
</tr>
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</table>

**Purpose of Project:** Improve reliability and load-service capability of the San Luis Valley area.

**Project Driver (Primary):** Reliability
**Project Driver (Secondary):**

**Estimated Cost:** TBD

**Schedule:**

<table>
<thead>
<tr>
<th>Construction Date:</th>
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</thead>
<tbody>
<tr>
<td>Planned In-Service Date:</td>
</tr>
<tr>
<td>Regulatory Info:</td>
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</tr>
<tr>
<td>Permitting Info:</td>
</tr>
<tr>
<td>Permitting Date:</td>
</tr>
</tbody>
</table>

**Contact Information:**

<table>
<thead>
<tr>
<th>Email</th>
<th><a href="mailto:thomas.green@xcelenergy.com">thomas.green@xcelenergy.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>303-571-7223</td>
</tr>
<tr>
<td>Website Information</td>
<td></td>
</tr>
</tbody>
</table>
Rifle – Story Gulch 230 kV Transmission Line

**Project Sponsor:** Public Service Company of Colorado/ Xcel Energy

**Additional Project Participants:** None

**Project Description:** Construct a single circuit 230 kV transmission line from a new substation called Story Gulch substation to the Rifle (Ute) substation

<table>
<thead>
<tr>
<th><strong>Voltage Class:</strong></th>
<th>230 kV</th>
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<tbody>
<tr>
<td><strong>Facility Rating:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Point of Origin/Location:</strong></td>
<td>Story Gulch Substation</td>
</tr>
<tr>
<td><strong>Point of Termination:</strong></td>
<td>Rifle (Ute) Substation</td>
</tr>
<tr>
<td><strong>Intermediate Points:</strong></td>
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<td><strong>Length of Line (in Miles):</strong></td>
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<td><strong>Type of Project:</strong></td>
<td>Transmission Line and Substation</td>
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<td><strong>Development Status:</strong></td>
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<td><strong>Routing:</strong></td>
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<tr>
<td><strong>Subregional Planning Group:</strong></td>
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</tr>
</tbody>
</table>

**Purpose of Project:** Load service.

**Project Driver (Primary):** Reliability

**Project Driver (Secondary):**

**Estimated Cost:** TBD

**Schedule:**

| **Construction Date:** | |
| **Planned In-Service Date:** | TBD |
| **Regulatory Info:** | CPUC: A CPCN will be required for this project pursuant to Decision No. C10-0644, Proceeding No. 10M-206E. |
| **Regulatory Date:** | |
| **Permitting Info:** | |
| **Permitting Date:** | |

**Contact Information:** Thomas Green

| **Email** | Thomas.green@xcelenergy.com |
| **Phone** | 303-571-7223 |

Website Information
### San Luis Valley-Poncha 230 kV Line #2

**Project Sponsor:** Tri-State Generation and Transmission Association  
**Additional Project Participants:** Public Service Company of Colorado/ Xcel Energy  
**Project Description:** Construct a second 230 kV transmission line from the San Luis Valley Substation to the Poncha Substation.

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<tr>
<th><strong>Voltage Class:</strong></th>
<th>230 kV</th>
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<tbody>
<tr>
<td><strong>Facility Rating:</strong></td>
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<td><strong>Point of Origin/Location:</strong></td>
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<td><strong>Point of Termination:</strong></td>
<td>Poncha</td>
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<td><strong>Intermediate Points:</strong></td>
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<td><strong>Length of Line (in Miles):</strong></td>
<td>62</td>
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<td><strong>Type of Project:</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Subregional Planning Group:</strong></td>
<td>CCPG</td>
</tr>
</tbody>
</table>

**Purpose of Project:** Improve reliability and load service capability of the San Luis Valley area.

**Project Driver (Primary):** Reliability  
**Project Driver (Secondary):**  

**Estimated Cost:** TBD

**Schedule:**  
**Construction Date:** TBD  
**Planned In-Service Date:** TBD  
**Regulatory Info:** CPUC: CPCN required, Decision No.C16-0627, Proceeding No. 16M-0009E.

**Regulatory Date:**  
**Permitting Info:**  
**Permitting Date:**  

**Contact Information:** Thomas Green  
**Email:** thomas.green@xcelenergy.com  
**Phone:** 303-571-7223  
**Website Information:**  

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Shortgrass Switching Station

**Project Sponsor:** Public Service Company of Colorado/ Xcel Energy

**Additional Project Participants:**

**Project Description:** Construct new 345kV facilities to expand switching station to integrate renewables

- **Voltage Class:** 345 kV
- **Facility Rating:**
- **Point of Origin/Location:** Shortgrass
- **Point of Termination:** Shortgrass
- **Intermediate Points:**
- **Length of Line (in Miles):**
- **Type of Project:** Substation
- **Development Status:** Planned
- **Routing:**
- **Subregional Planning Group:** CCPG

**Purpose of Project:** Accommodate future interconnections of renewables.

- **Project Driver (Primary):** Generation
- **Project Driver (Secondary):**

**Estimated Cost:** $20,600,000

**Schedule:**
- **Construction Date:**
- **Planned In-Service Date:** 2020
- **Regulatory Info:** CPUC: CPCN required, Decision No. C19-0175, Proceeding No. 18A-0860E.

**Regulatory Date:**

**Permitting Info:**

**Permitting Date:**

**Contact Information:** Thomas Green

- **Email** thomas.green@xcelenergy.com
- **Phone** 303-571-7223

**Website Information**
Shortgrass – Cheyenne Ridge 345 kV Transmission Line Project

Project Sponsor: Public Service Company of Colorado/ Xcel Energy

Additional Project Participants:

Project Description: Construct new 345 kV transmission line extending from Shortgrass switching station to Cheyenne Ridge collector station.

- Voltage Class: 345 kV
- Facility Rating: 1440 MVA
- Point of Origin/Location: Shortgrass
- Point of Termination: Cheyenne Ridge
- Intermediate Points:
- Length of Line (in Miles): 73
- Type of Project: Transmission
- Development Status: Planned
- Routing:
- Subregional Planning Group: CCPG

Purpose of Project: Provide interconnection for generation

Project Driver (Primary): Generation
Project Driver (Secondary):

Estimated Cost: $62,300,000

Schedule:
- Construction Date:
- Planned In-Service Date: 2020
- Regulatory Info: CPUC: CPCN required, Decision No. C19-0367, Proceeding No. 18A-0905E.

Regulatory Date:
Permitting Info:
Permitting Date:

Contact Information: Thomas Green
- Email: thomas.green@xcelenergy.com
- Phone: 303-571-7223
- Website Information
Thornton Substation

Project Sponsor: Public Service Company of Colorado/ Xcel Energy

Additional Project Participants:

Project Description: New substation tapping the Cherokee – Fair Grounds 115kV line, to serve load growth in the Thornton area of Colorado.

Voltage Class: 115 kV
Facility Rating: N/A
Point of Origin/Location: Thornton Substation
Point of Termination: Thornton Substation
Intermediate Points: Thornton Substation
Length of Line (in Miles):
Type of Project: Substation
Development Status: Planned
Routing:
Subregional Planning Group: CCPG

Purpose of Project: Load service
Project Driver (Primary): Reliability
Project Driver (Secondary):

Cost: $21,400,000

Schedule:
Construction Date: 2018
Planned In-Service Date: 2019
Regulatory Date: April 2015
Permitting Info: Approved
Permitting Date:

Contact Information: Thomas Green
Email: thomas.green@xcelenergy.com
Phone 303-571-7223
Website Information: http://www.transmission.xcelenergy.com/Projects/Colorado
Two Basins Relocation Project

Project Sponsor: Public Service Company of Colorado/ Xcel Energy

Additional Project Participants:

Project Description: Relocation of three 115 kV lines exiting the North Substation.

Voltage Class: 115 kV
Facility Rating:
Point of Origin/Location: North Substation
Point of Termination: Capitol Hill Substation, California Substation and Sandown Substation
Intermediate Points:
Length of Line (in Miles):
Type of Project: Transmission Line
Development Status: Under Construction
Routing:
Subregional Planning Group: CCPG

Purpose of Project: Mandated by City and County of Denver Two Basins storm water drainage project.

Project Driver (Primary): Other civil projects in the area
Project Driver (Secondary):

Cost: $24,100,000

Schedule:
Construction Date: 2017
Planned In-Service Date: 2018
Regulatory Info: CPUC: No CPCN required, Decision No. C17-0539, Proceeding No. 17M-005E.

Regulatory Date:
Permitting Info:
Permitting Date:

Contact Information: Thomas Green
Email thomas.green@xcelenergy.com
Phone 303-571-7223
Website Information
Weld – Rosedale – Box Elder – Ennis 230/115kV Transmission Line

Project Sponsor: Public Service Company of Colorado/ Xcel Energy

Additional Project Participants:

Project Description: Build a new 230 kV transmission line from Weld to Rosedale and a 230kV or 115kV line from Rosedale to Box Elder to Ennis.

Voltage Class: 230 kV
Facility Rating: 576 MVA
Point of Origin/Location: Weld Substation
Point of Termination: Ennis Substation
Intermediate Points: Rosedale Substation, BB Draw Substation (New)
Length of Line (in Miles): 13 + 7
Type of Project: Transmission Line
Development Status: Conceptual
Routing: Subregional Planning Group: CCPG

Purpose of Project: To increase reliability, load-serving capability and resource accommodation in northeast Greeley.

Project Driver (Primary): Reliability
Project Driver (Secondary): Load service and resource accommodation

Estimated Cost: TBD

Schedule:
Construction Date: TBD
Planned In-Service Date: TBD
Regulatory Info: CPCN: No CPCN required, Decision No. C16-0627, Proceeding No. 16M-0009E.

Regulatory Date: Permitting Info: Permitting Date:

Contact Information: Thomas Green
Email thomas.green@xcelenergy.com
Phone 303-571-7223
Website Information
**Weld County Expansion Project**

**Project Sponsor:** Public Service Company of Colorado/ Xcel Energy

**Additional Project Participants:**

**Project Description:** A conceptual plan for the Northeast Colorado to increase generation and load-serving capability and meet Public Service goals as outlines in the 80x30 Plan.

- **Voltage Class:** 230 kV
- **Facility Rating:** TBD
- **Point of Origin/Location:** Ault Substation
- **Point of Termination:** South of Greeley
- **Intermediate Points:** Rosedale Substation
- **Length of Line (in Miles):** TBD
- **Type of Project:** Transmission Line
- **Development Status:** Conceptual
- **Routing:**
- **Subregional Planning Group:** CCPG

**Purpose of Project:** Reliability, load and resource accommodation, and increase TOT7 path.

- **Project Driver (Primary):** Reliability
- **Project Driver (Secondary):** Public Policy

**Estimated Cost:** TBD

**Schedule:**

- **Construction Date:**
- **Planned In-Service Date:** TBD
- **Regulatory Info:**
- **Regulatory Date:**
- **Permitting Info:**
- **Permitting Date:**

**Contact Information:** Thomas Green

- **Email:** thomas.green@xcelenergy.com
- **Phone:** 303-571-7223
- **Website Information:** [http://www.transmission.xcelenergy.com/Projects/Colorado](http://www.transmission.xcelenergy.com/Projects/Colorado)
Wheeler - Wolf Ranch 230 kV Transmission Project

Project Sponsor: Public Service Company of Colorado/ Xcel Energy

Additional Project Participants:

Project Description: The project consists of the construction of a new 230 kV transmission line approximately 18 miles from Wheeler Substation to a new Wolf Ranch Substation to accommodate a new 50 MVA natural gas customer load. The line will also interconnect to the Middle Fork Substation.

Voltage Class: 230 kV
Facility Rating: 440 MVA
Point of Origin/Location: Wheeler Substation
Point of Termination: Wolf Ranch Substation
Intermediate Points: Middle Fork Substation
Length of Line (in Miles): 18.0
Type of Project: Transmission Line and Substation
Development Status: Conceptual
Routing:
Subregional Planning Group: CCPG

Purpose of Project: Load Service
Project Driver (Primary): Reliability
Project Driver (Secondary): 

Estimated Cost: TBD

Schedule:
Construction Date: 
Planned In-Service Date: TBD
Regulatory Info: CPUC: No CPCN is required for this project pursuant to Decision No. C10-0644, Proceeding No. 10M-206E.
Regulatory Date: 
Permitting Info: 
Permitting Date: 

Contact Information: Thomas Green
Email thomas.green@xcelenergy.com
Phone 303-571-7223
Website Information 

Appendix F
Proceeding 20M-0008E
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