WELCOME

PUC Rule 3627 Stakeholder Meeting
August 16, 2019
Meeting Logistics – Webinar Participants

- Due to feedback problems that prevent webinar participants from hearing the presentation clearly, we have muted all call in lines.

- If you are attending via webinar and would like to submit a question or comment, please do so using the typewritten comment box available to you.

- Staff is monitoring these written comments and we will address them during the meeting.
Today’s Presentation

- Introduction and Overview
- Transmission Planning Basics
- Rule 3627
- Review Transmission Plans
- Solicit Feedback
Xcel Energy Inc.

- Gas Customers: 2.0 M
- Electric Customers: 3.6 M

- Northern States Power Company
- Public Service Company of Colorado
- Southwestern Public Service Company
- Wisconsin
Xcel Energy Transmission

- Over 20,000 transmission line miles
- More than 1,200 substations
- Serving customers in 8 states
- 3 NERC Regions; 2 RTOs; Non-RTO west
Rule 3627

- Rule 3627
  - Public Utilities Commission of Colorado (PUC) Rule
  - Adopted in 2011
  - Applies to Black Hills, Tri-State, Public Service

- Filing:
  - 10-Year Transmission Plan & 20-Year Scenarios
  - File in February of Even Years
  - Next Filing: February 2020

- Stakeholder Participation

- PUC Determines “Adequacy”
10-Year Report Content:

- Transmission Plans
  - Projects > 100 kV
  - “Planned” & “Conceptual”

- Other Details
  - Methodology, Criteria, Assumptions
  - Related Reports and Studies
  - Summary of Stakeholder Participation

- Proceeding Consolidated with SB07-100
  - Public Policy Legislation that Promotes Proactive Transmission Planning
  - Discussed Later
Colorado Rule 3627 – Ten Year Transmission Plan

*All projects are subject to change and routes have yet to be determined.
Transmission Planning Process
Transmission Planning is the art of identifying future transmission infrastructure for delivery from forecasted resources to forecasted load centers without violating mandatory compliance standards.
2019 Transmission Planning Studies and Assessments
Transmission Planning Drivers

- Load Service / Reliability
  - Near-Term (1-5 years)
  - Longer-Term (5-10 years)
- Resource Accommodation
  - PSCo Resource Plans (2016 ERP & CEP)
  - Generator Interconnection Requests
- Public Policy
  - Senate Bill 07-100 (SB-100)
  - 2017 Colorado Energy Plan (CEP)
  - Carbon Free Requirements and Goals
  - Senate Bill 19-236
- Other
  - Tariff Studies
  - Transmission Service
Planning Study Process

- Prepare Study Models
- Commercial Software
- Inputs: Load Forecasts, Resources, Transmission
- Coordinates with Other Transmission Owners
- Perform Studies
  - Steady State, Transient Stability, Short Circuit
- Metrics & Compliance
  - NERC Standards (TPL, MOD, FAC)
  - PSCo Criteria
  - Variable Energy Resource (VER) Guidelines
- Recommendations for System Upgrades
PSCo Electric Resource Plan
Colorado Energy Plan
PSCo Initiatives

- **Colorado Electric Plan**
  - Filed August 2017
  - Retire 660 MW Coal Gen by 2025
  - 1100 MW New Wind Generation
  - 700 MW New Large-Scale Solar
  - 275 MW Battery Storage

- **Clean Energy Future**
  - 100% Carbon Free by 2050
    - Aligns with Colorado Governor Polis’ Goals
  - 80% Carbon Reduction by 2030

- Colorado Energy Plan Task Force (CEPTF)
- Under Colorado Coordinated Planning Group (CCPG)
CEPP projects are conceptual until execution of a Provisional LGIA or pro forma LGIA.
Preferred CEPP

<table>
<thead>
<tr>
<th>Bid ID</th>
<th>Project Name</th>
<th>Technology</th>
<th>MW</th>
<th>Ownership</th>
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<td>IPP</td>
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<td>Solar</td>
<td>72</td>
<td>IPP</td>
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<td>W192</td>
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<td>Wind</td>
<td>500</td>
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<td>2021</td>
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<tr>
<td>W602</td>
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<td>Wind</td>
<td>300</td>
<td>IPP</td>
<td>2021</td>
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<tr>
<td>W090</td>
<td></td>
<td>Wind</td>
<td>169</td>
<td>IPP</td>
<td>2021</td>
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<td>W301</td>
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<td>Wind (repower)</td>
<td>162</td>
<td>IPP</td>
<td>2019</td>
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<td>G215</td>
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<td>Gas (existing)</td>
<td>301</td>
<td>Own</td>
<td>2022</td>
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<td>G065</td>
<td></td>
<td>Gas (existing)</td>
<td>82</td>
<td>Own</td>
<td>2022</td>
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</table>

Note: In-Service refers to the first summer the unit is available.

All CEPP projects are conceptual until they successfully complete the LGIP.
Rush Creek Gen-Tie Interconnections

- Additional 800 MW at the Shortgrass Switching Station
- Shortgrass Switching Station near Rush Creek II site
- 2 projects:
  - Cheyenne Ridge 500 MW Wind
  - Bronco Plains 300 MW Wind
- Shortgrass CPCN - approved
- Cheyenne Ridge CPCN - approved
- Bronco Plains PPA
- Planned ISDs of 2022
Rush Creek Gen-Tie Projects

Rush Creek I: 380 MW
Rush Creek II: 220 MW
Bronco Plains: 300 MW
Cheyenne Ridge West: 250 MW
Cheyenne Ridge East: 250 MW

Total = 1400 MW
CEPP Network Upgrade Studies

Objective:
- Accommodate CEPP
- Develop Plan for Denver-metro System

Results:
- 345 kV Backbone Allows Flexibility for CEPP Generation
- Limits: Denver Metro Transmission

Alternatives:
- New Greenwood–Arapaho –Denver Terminal 230 kV Line
- Upgrade Existing 230 kV lines
- Smoky Hill – Chambers – Cherokee 230 kV conversion
Limits
Other Alternatives Evaluated / Considered

1) Pawnee-Green Valley 230 kV (New)
2) Greenwood-Arapahoe-Denver Terminal & Waterton-Arapahoe conversion (Expansion of Proposal)
3) Missile Site - Spruce 345 kV Double Circuit (New)
4) Chambers - Cherokee 230 kV (Conversion from 115)
5) Chambers – Sandown 230 kV (New) & Sandown – Leetsdale 230 kV (Conversion from 115)

None of the above alternatives resolved performance issues, except #2, which expands the proposed project
10-Year Transmission Plans
Substations

- **Completed**
  - Bluestone Valley Phase 1 (2019)
  - Harvest Mile (2019)
  - Wolcott (2x20 MVAR Reactors)(in service)

- **2020**
  - Shortgrass 345 kV Switching Station
  - NREL Interconnection

- **2021**
  - Cloverly 115kV Expansion

- **2022**
  - Graham Creek 115kV
  - Husky 230/115kV
  - Other CEPP Interconnections

- **TBD**
  - Reliability:
    - Bluestone Valley Phase 2

- **Distribution**
  - Moon Gulch (In Service)
  - Avery (2021 – was 2019)
  - Thornton (in service)
  - Barker (Bank 1: 2021, Bank 2: 2022, Bank 3 TBD)
  - High Point (2022)
  - Titan (2022)
  - Dove Valley (2023)
  - Stock Show (2026)

- **Conceptual, ISD TBD**
  - Box Elder Replacement
  - New Castle
  - Wilson
  - Solterra
  - Superior
  - Sandy Creek
Transmission

Completed
- Rush Creek – Missile Site 345 kV (2018)

Planned
- **2019**
  - Pawnee – Daniels Park 345 kV
- **2020**
  - Shortgrass – Cheyenne Ridge 345 kV
- **2021**
  - Monument–Flying Horse 115kV Series Reactor
- **2022**
  - Ault–Cloverly 230kV
  - Gilman – Avon 115kV
  - Climax – Robinson Rack – Gilman 115kV
  - Greenwood-Arapahoe-Denver Terminal 230 kV
- **2023+**
  - South of Greeley Plan

Conceptual, ISD TBD
- Gen-Tie Networking*
- Glenwood–Rifle Upgrade
- Robinson Rack – Gilman 115kV
- Parachute–Cameo 230kV
- Lamar–Front Range *
- San Luis Valley–Poncha 230kV #2**
- Poncha–W.Canon–Midway 230kV #2

* Potential Reduced Carbon Projects
** TSGT lists SLV as 2022
Projects by Area
## Denver Metro Area

<table>
<thead>
<tr>
<th>#</th>
<th>Project Description</th>
<th>Comments</th>
<th>ISD*</th>
<th>Drivers</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>New substation in Denver Area to serve distribution load growth in west Arvada.</td>
<td>In Service 2018</td>
<td>Distribution</td>
<td></td>
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<tr>
<td>2</td>
<td>New substation in Thornton to serve distribution loads. Replaces the Brantner Substation project.</td>
<td>In Service 2019</td>
<td>Distribution</td>
<td></td>
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<tr>
<td>3</td>
<td>New substation in Denver Area to serve distribution load growth in Historic Ballpark Area</td>
<td>2021</td>
<td>Distribution</td>
<td></td>
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<tr>
<td>4</td>
<td>New substation in Denver Area to serve distribution load growth in Green Valley Ranch Area</td>
<td>2022</td>
<td>Distribution</td>
<td></td>
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<td>5</td>
<td>New substation in Denver Area to serve distribution load growth in Sterling Ranch Area</td>
<td>2022</td>
<td>Distribution</td>
<td></td>
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<tr>
<td>6</td>
<td>New 230 kV line primarily utilizing existing right-of-ways from Greenwood to Arapahoe to Denver Terminal.</td>
<td>2022</td>
<td>Generation</td>
<td></td>
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<tr>
<td>7</td>
<td>New substation in Denver Area to serve distribution load growth in South Metro Area</td>
<td>2023</td>
<td>Reliability</td>
<td></td>
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<tr>
<td>8</td>
<td>New substation in Denver Area to serve distribution load growth for the National Western Stock Show renovation</td>
<td>2025</td>
<td>Distribution</td>
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*All project in-service dates subject to change
<table>
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<tr>
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<th>Project</th>
<th>Comments</th>
<th>ISD*</th>
<th>Drivers</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Missile Site – Rush Creek 345 kV Transmission Line</td>
<td>New generation tie-line for the Rush Creek Wind Project. Includes Pronghorn Switching Station near Rush Creek I Collector Site</td>
<td>In-Service 2018</td>
<td>Generation</td>
</tr>
<tr>
<td>2</td>
<td>Pawnee – Daniels Park 345 kV Transmission Line</td>
<td>Add an additional 345 kV line between the Pawnee and Daniels Park substations. Add Harvest Mile Substation near Smoky Hill</td>
<td>2019</td>
<td>Reliability</td>
</tr>
<tr>
<td>3</td>
<td>Shortgrass Switching Station</td>
<td>New 345 kV switching station near Rush Creek II collector site to interconnection two new wind projects</td>
<td>2020</td>
<td>Generation</td>
</tr>
</tbody>
</table>

*All project in-service dates subject to change
Pawnee - Daniels Park Project Map

- Location: Morgan, Adams, Arapahoe, Elbert and Douglas counties
- Infrastructure: 115-mile transmission line from Pawnee Substation to Daniels Park Substation and from Smoky Hill Substation to Daniels Park Substation
Foothills/Greeley Area - Northeast Colorado

<table>
<thead>
<tr>
<th>#</th>
<th>Project</th>
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<th>ISD*</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Avery Substation</td>
<td>New distribution substation to serve loads in the area</td>
<td>2021</td>
<td>Distribution</td>
</tr>
<tr>
<td>2</td>
<td>Ault – Cloverly 230/115kV Subs: Husky, Graham Ck.</td>
<td>New line from Ault Substation to Cloverly Substation. Create new substations near PSCo Ault and Eaton to move 44kV loads to higher voltage.</td>
<td>2022</td>
<td>Reliability Load Growth Resource</td>
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<tr>
<td>3</td>
<td>Weld – Rosedale 230kV</td>
<td>New line from Weld Substation to Rosedale Substation. Build a new 230kV substation (Beebe Draw) to replace the existing 44kV La Salle Substation.</td>
<td>TBD</td>
<td>Reliability Load Growth</td>
</tr>
</tbody>
</table>

*All project in-service dates subject to change*
NGAP: Ault – Cloverly Project

- Ault-Husky 230kV (Ault 44kV Replacement at Husky)
- Husky-Graham Creek 115kV, built double circuit 230kV capable (Eaton 44kV Replacement at Graham Creek)
- Graham Creek-Cloverly 115kV, built double circuit 230kV capable (Pleasant Valley 44kV Replacement at Cloverly)

CPCN

ISD: 2022

Cost: $65M
South of Greeley Area Plan

**Objectives**
- Replace the southern part of the 44kV sub-transmission system
- Improve Reliability
- Increase Load Serving Capability
- Increase Resource Accommodation
- Align with Other Transmission Plans
  - NCAP: North, SWEP

**Plan**
- New 230 kV and 115 kV Transmission from Weld – Rosedale – Box Elder - Ennis

**Next**
- Drafting Study Report
- File CPCN
### Western Slope / Mountain Area

**Project Comments**

<table>
<thead>
<tr>
<th>#</th>
<th>Project</th>
<th>Comments</th>
<th>ISD*</th>
<th>Drivers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bluestone Valley Substation</td>
<td>Phase 1: Construct the Bluestone Valley 69kV Switching Station.</td>
<td>Phase 1: 2019</td>
<td>Reliability</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Phase 2: Construct the 230kV Bluestone Valley Substation that taps the Parachute-Cameo 230kV line.</td>
<td>Phase 2: TBD</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Glenwood-Rifle 69kV to 115kV Upgrade</td>
<td>Upgrade the Glenwood-Rifle 69 kV line to 115 kV.</td>
<td>TBD</td>
<td>Reliability</td>
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<tr>
<td>3</td>
<td>Gilman–Avon 115kV Line</td>
<td>Add a new 10-mile 115kV line in Eagle County for reliability and alternate source to Holy Cross customers</td>
<td>2022</td>
<td>Reliability</td>
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<tr>
<td>4</td>
<td>Parachute – Cameo 230kV Line</td>
<td>New 230 kV line from the Parachute substation to Cameo substation</td>
<td>TBD</td>
<td>Reliability</td>
</tr>
<tr>
<td>5</td>
<td>New Castle Substation</td>
<td>Construct a new 115 kV substation to serve Distribution loads in New Castle</td>
<td>TBD</td>
<td>Distribution</td>
</tr>
<tr>
<td>6</td>
<td>Climax – Robinson Rack – Gilman</td>
<td>Repair and uprate 115kV transmission from Climax to Gilman substations for reliability in the Eagle/Vail Valley</td>
<td>2022</td>
<td>Reliability</td>
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*All project in-service dates subject to change*
**South Denver/CO Springs Area**

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<th>Comments</th>
<th>ISD*</th>
<th>Drivers</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>IREA Happy Canyon</td>
<td>Construct a new 115 kV substation for IREA</td>
<td>2016</td>
<td>Wholesale Customer</td>
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<tr>
<td>2</td>
<td>Monument – Flying Horse 115kV Series reactor</td>
<td>Series reactor on the Monument – Flying horse 115kV line</td>
<td>2021</td>
<td>Reliability</td>
</tr>
</tbody>
</table>

*All project in-service dates subject to change*
Monument – Flying Horse 115kV Series Reactor

Objective
Develop a transmission project to alleviate the potential for unacceptable loading on the Colorado Springs Utilities system.

Project
Add a Series Reactor to either the Monument or Flying Horse Substation.

Working with CSU and TSGT to determine feasibility and scope of mitigation.
# San Luis Valley Area

## Project Comments

<table>
<thead>
<tr>
<th>#</th>
<th>Project</th>
<th>Comments</th>
<th>ISD*</th>
<th>Drivers</th>
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<tbody>
<tr>
<td>1</td>
<td>Upgrade 69kV line: L6905</td>
<td>Phase 1-3: Rebuilt L6905 from Mosca to Villa Grove. Phase 4: Villa Grove - Poncha</td>
<td>2017-18</td>
<td>Reliability</td>
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<tr>
<td>2</td>
<td>Upgrade 69kV line: L6964</td>
<td>Rebuilding L6964 from Alamosa Plant to Ft. Garland</td>
<td>2018</td>
<td>Reliability</td>
</tr>
<tr>
<td>3</td>
<td>Alamosa Bank #2 Replacement</td>
<td>Installing a new 28 MVA 115/13.8kV distribution transformer to replace an 8 MVA.</td>
<td>2018</td>
<td>Distribution</td>
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<tr>
<td>4</td>
<td>Refurbishment L9811</td>
<td>Replacing deteriorate structures, poles, and cross-arms on L9811 from SLV to Poncha.</td>
<td>2021</td>
<td>Reliability</td>
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</table>

Conceptual Project - SLV-Poncha 230kV line #2. Proposed joint project with Tri-State.

*All project in-service dates subject to change*
Public Policy Planning
Senate Bill 07–100
PSCo Public Policy
Senate Bill 07-100

- Designate “Energy Resource Zones (ERZ)”
- Develop plans for the construction or expansion of transmission facilities necessary to deliver electric power consistent with the timing of the development of beneficial energy resources located in or near such zones
- Consider how transmission can be provided to encourage local ownership of renewable energy facilities
- Submit proposed plans, designations, and applications for certificates of public convenience and necessity to the commission
## Senate Bill 100 Project List

<table>
<thead>
<tr>
<th>Item</th>
<th>Project</th>
<th>Zone</th>
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<td>Missile Site 230kV Switching Station</td>
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<td>Nov 2010</td>
<td>In Service No CPCN Required</td>
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<td>2.</td>
<td>Midway - Waterton 345kV Transmission Project</td>
<td>3,4,5</td>
<td>Jun 2011</td>
<td>In Service CPCN: July 2009</td>
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<td>Missile Site 345kV Switching Station</td>
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<td>October 2012</td>
<td>In service CPCN: June 2010</td>
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<td>4.</td>
<td>Pawnee-Smoky Hill 345kV Transmission Project</td>
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<td>June 2013</td>
<td>In Service CPCN: Feb 2009</td>
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<td>5.</td>
<td>Pawnee-Daniels Park 345kV Transmission Project</td>
<td>1</td>
<td>2019</td>
<td>Under Construction CPCN: April 2015</td>
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<tr>
<td>6.</td>
<td>Northern Colorado Area Plan (North)</td>
<td>1</td>
<td>2022</td>
<td>Local Permitting Ongoing CPCN: March 2018</td>
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<td><strong>Conceptual</strong></td>
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<tr>
<td>7.</td>
<td>Lamar-Front Range 345kV Transmission Project</td>
<td>2, 3</td>
<td>TBD</td>
<td>Studies Complete. No plans for full build-out at this time</td>
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<tr>
<td>8.</td>
<td>Lamar-Vilas 230kV Transmission Project</td>
<td>3</td>
<td>TBD</td>
<td>See Lamar – Front Range</td>
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<td>9.</td>
<td>Northern Colorado Area Plan (South)</td>
<td>1</td>
<td>TBD</td>
<td>Studies Ongoing CCPG – NECO Subcommittee</td>
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<td>10.</td>
<td>San Luis Valley</td>
<td>4</td>
<td>TBD</td>
<td>Studies Complete Tri-State Lists “Phase 1” 2022 ISD</td>
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*All project in-service dates subject to change*
Public Policy Planning
Senate Bill 19-236
Senate Bill 19-236

- Extended CPUC for 7 years
- Performance based regulation study
- Requires submission of distribution plans
- CPUC to survey utility wholesale and retail rates
- Investigatory docket on costs and benefits of RTOs, EIMs, joint tariffs and power pools
- Requires generation and transmission utilities to submit resource plans to CPUC for approval
- SB19-236 addresses 80x30 and zero carbon by 2050
DESTINATION 2050


- Xcel Energy will continue working with all states it operates within and stakeholders. Our interim goal is to reduce carbon emissions 80% by 2030 is based on absolute, company-wide emissions from the electricity that serves our retail and wholesale customers, measured from a 2005 baseline. Likewise, our aspiration to serve customers with carbon-free electricity by 2050 is company-wide.
DESTINATION 2050: Common Plan

Elements

• Adding thousands of megawatts of wind and solar power to our system
• Incorporating both natural gas and storage resources to help balance high levels of renewable energy
• Deploying strategic electrification of certain end uses to help create flexible demand
• Continuing to implement industry-leading energy efficiency programs
• Seeking to operate our nuclear plants through at least the remainder of their licenses
• Retiring additional coal units or changing their operations to minimize emissions affordably and reliably
• Investing in supportive infrastructure to modernize the power grid
Regional & Subregional Updates (CCPG, WestConnect, WECC)
CCPG EVENTS

- CCPG Meetings
  - August 22, 2019
  - December 12, 2019

CCPG Contacts:
Jeremy Brownrigg – Chair
brownriggj@prpa.org
(970) 266-7979

Betty Mirzayi – Vice Chair
betty.mirzayi@xcelenergy.com
(303) 571-7169
Stakeholder Opportunity for Comment
Feedback Requested

- Study Thoughts
- Alternative Suggestions
- Public Policy Concerns
- Environmental / Societal
- Renewable Energy Policies
- Significant Load Impacts
- Deadline October 1 for consideration in 2020 report
- Stakeholder input always welcome
Comment Form

CCPG Comment Form

(For Stakeholder Comments, Requests for Clarification, Reliability Studies, Alternative Evaluation, and other General Feedback)

Provide the information in the yellow boxes. If the information is unavailable or unknown, please indicate.

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<tr>
<th>Requester Information:</th>
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<td>Geographic Footprint Impacted:</td>
</tr>
<tr>
<td>Load and Resource Modeling:</td>
</tr>
<tr>
<td>Transmission Modeling:</td>
</tr>
<tr>
<td>Suggested Participants: (TP's, LSE's, Work Groups):</td>
</tr>
<tr>
<td>Policy Issues to be Addressed: (SB100, RES, FERC, NERC, etc):</td>
</tr>
<tr>
<td>Other Factors to be Considered:</td>
</tr>
<tr>
<td>Type (Powerflow or Stability):</td>
</tr>
</tbody>
</table>

Return To:

CCPG Chair: Wes Wingen
In care of: Black Hills Corporation
Address: 1200 E 2nd St 1400
City, State, Zip: Rapid City, South Dakota, 57709
Phone: 605-721-2268
Email: Wes.Wingen@blackhillscorp.com

All study requests received from stakeholders will be reviewed and evaluated to determine the appropriate process for addressing. This planning process does not replace the System Impact Study process. Specific requests for transmission service or generation interconnection will continue to be studied pursuant to existing OATT processes.
PSCo PUC Rule 3627 Information

- On the Xcel Energy website at:

- WestConnect website for all regional projects:
  - http://regplanning.westconnect.com/ccpg.htm
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