

Boulder Xcel Advisory Panel Meeting

February 5, 2023

5:30-7:30pm, Zoom

Agenda

- Project Updates
- Milestone Status & Emissions Target
- 2024 Workplan
- Upcoming Engagement Events
- 2024 Calendar

Project Updates

Transportation Electrification

- **2024-2026 Transportation Electrification Plan**
 - Application to expand access to home, fleet and public fast charging as well as incentives for vehicle purchase and innovative charging program.
 - Hearing on proposed settlement agreement and affordability stipulation concluded on January 19.
 - Decision expected in spring 2024.
- **30th & Pearl bi-directional EV charging**
 - Pilot project to test the ability of bi-directional EV charging paired with car share to reduce peak demand at multi-family building.
- **Shared transit electrification hub**
 - Met to discuss Xcel participation in second phase of development of a shared transit electrification hub
- **Fleet charging**
 - Xcel will install and maintain EV charging stations for the city fleet at multiple sites.
- **Multi-family charging**
 - Evaluating opportunities to add EV charging at six affordable housing buildings.
- **Boulder County grant**
 - The county received a \$4.9 million grant from the Dept. of Transportation to install level 2 and DC fast charge stations. The city contributed to the grant and will work closely with the grant team on site selection.
 - As part of the application, Xcel provided preliminary site reviews.

Virtual Power Plant [VPP] Grant

- Virtual power plant concept paper submitted for DOE funding.
- DOE encouraged formal application due April 15.
- Proposal:
 - Aggregate customer resources: flexible loads, residential solar systems, storage systems, and electric vehicles to provide grid support and services
 - Avoid the need for new generation and grid infrastructure investments
 - Relieve congestion on the distribution grid
 - Create new value-streams for customer resources
 - Facilitate the Company's transition of the 'supply stack' to non-carbon-producing assets.
 - Analysis identified Boulder feeders with rooftop solar, battery storage, combined heat and power, EV charging, and load management capability equal to 32% of peak load

Zero Emissions Communities (a.k.a. 24/7 Carbon-Free Electricity)

The addition of “incremental” utility-scale renewable generation and storage to reduce system-wide emissions on the scale of interested customers and communities.

Timeline to Now

- Oct. 2021 – Proposed in Electric Resource Plan (ERP, Proceeding No. 21A-0141E)
- Summer 2022 – Preliminary Modeling
- Mar. 2023 – Informational Notice filed with PUC.
- Jan. 2023 – Commission order in ERP directing Commission Information Meeting
- Jan.-Feb. 2024 – Analysis of possible resources.

Timeline – What is next?

- March – Commission Information Meeting (date/time - TBD).*
- April-May – Further product development, program scaling, regulatory prep.
- June – Targeted Filing.
 - Just Transition Plan (JTP) ERP filing, or
 - Separate Application

*About the CIM: “...discuss information regarding what stakeholders are interested in, what attributes are desired, the potential structure of such a program, the status of Public Service’s efforts on this topic and next steps.”

EPA Climate Pollution Reduction Grant



The Climate Pollution Reduction Grants (CPRG):

- \$5 billion in grants to states, local governments, tribes, and territories to develop and implement ambitious plans for reducing greenhouse gas emissions and other harmful air pollution.
- DRCOG leading regional efforts
- Applications due April 1, 2024.
- **Multi-pronged strategy:**
 - Energy Improvement Advisors
 - Rebates & Incentives
 - Full-Service Electrification
 - Workforce Development
 - Local Policy Accelerator
 - Innovation Fund
 - Engagement & Marketing

Milestone Status & Emission Target

Speakers:

Jeff Lyng, AVP, Energy & Sustainability Policy

Michael Pascucci, Director, Regulatory Policy

Process Framing

1. Xcel shares presentation
2. Each panel member will have 1-2 minutes share initial thoughts and questions.
3. Boulder and Xcel team members will respond after all panel members have had a chance to speak.
4. We will open the floor for additional questions, as time permits.

Observing members of the public are encouraged to email feedback and/or questions to contactclimateinitiatives@bouldercolorado.gov.

- Emailed questions will not be addressed at tonight's meeting, but we will respond separately.
- There are upcoming public events for more direct community involvement.

Panel Round Robin

- Each panel member has 1-2 minutes to share their initial thoughts and questions.
- Boulder and Xcel team members will respond after all panel members have had a chance to speak.
- We will open the floor for additional questions as time permits.

Public Outreach & Engagement Opportunities

Partnership Update to Council

- Feb. 15: Council Presentation
 - City Council Chambers
 - 6 to 9 p.m. (Under Matters from the City Manager)

Xcel Open House

- Spring 2024 (Mar/Apr)
- Others TBD

2024 Workplan

2024 Workplan Focus Areas

Beneficial
Electricification
& Energy
Efficiency

Transportation
Electrification

Renewables &
Local
Distributed
Generation

Reliability &
Resiliency

Beneficial Electrification & Energy Efficiency

Description	Timing	Panel Involvement
<p>Accelerating Heat Pump Adoption Marketing and outreach, and streamlined delivery approach targeted at all electric homes</p>	<p>Q1 – Identify candidate households; Design delivery approach Q2-Q3 – Develop collateral, put in place delivery mechanisms Late Q3 – Implement campaign</p>	<p>Late March/Early April Working Group</p>
<p>Healthy and Resilient Manufactured Housing Workforce development and implementation of weatherization and electrification in manufactured housing communities</p>	<p>Q3 – Launch workforce and leverage expanded Xcel programming</p>	<p>TBD Monitoring</p>
<p>New Modular Construction Develop new incentive to support net-zero-ready new modular construction</p>	<p>Q1-Q2 – Design incentive and pursue regulatory approval</p>	<p>Monitoring</p>

Beneficial Electrification & Energy Efficiency

Description	Timing	Panel Involvement
Pearl Street Electrification Energy efficiency and electrification enable pruning of the gas distribution system	Q1-Q2 – Preliminary planning Q2 – Commission decision Q3 - Launch	Q2 Launch Working Group
Front Range Beneficial Electrification Network/DRCOG Support regional strategies focused on workforce development, contractor training, scaling, code adoption	Ongoing	Monitoring

Transportation Electrification

Description	Timing	Panel Involvement
Vehicle to Grid Pilot Evaluate learnings for N. Boulder Rec and 30 Pearl pilots to inform future programs to leverage EVs for grid services	See earlier slide	Ongoing: Monitoring Q1 '25: Project evaluation and recommendations for future vehicle-to-grid projects
City Fleet Electrification Construct charging infrastructure to support the city organization's adoption of EVs	See earlier slide	Monitoring, with potential to incorporate best practices and learnings into broader community-focused programming
Shared Transit Electrification Hub In partnership with BVSD, CU and Via, design and implement a resilient hub for transit charging	In development	TBD

Transportation Electrification

Description	Timing	Panel Involvement
Multi-Family Charging Partner with BHP and other multi-family properties to increase charging access	In development	TBD Reconvene panel to provide feedback on next steps
Community-Wide Charging Access Site evaluation and implementation of DOT grant investments	See earlier slide	Monitoring, with potential to incorporate best practices and learnings into future projects

Renewable Energy & Local Distributed Generation

Description	Timing	Panel Involvement
Zero Emissions Communities (see update slide)	See update slide	Late Q2: Update ahead of Commission filing Q3-Q4: Community engagement strategy development
Virtual Power Plant (see update slide)	See update slide	TBD
TBD Remove barriers to and accelerate local adoption of solar	In development	TBD

Reliability and Resiliency

Description	Timing	Panel Involvement
<p>Arapahoe 1% OH to UG Project Convert ~4,700 feet of existing overhead electric distribution lines between Foothills Parkway and 55th Street in conjunction with the city’s East Arapahoe Multi-Use Path and Transit Stops Project</p>	<p>February – October 2024</p>	<p>N/A (undergrounding must be done for the multi-use path project)</p>
<p>Chautauqua: Reliable, Resilient and Sustainable Chautauqua Phased undergrounding of all overhead dry utilities in the Chautauqua area, including those facilities that serve the City’s water tank and radio tower.</p> <p>The project would be the first to implement a joint trench agreement (one of the projects highlighted in the Energy Partnership).</p> <p><i>Siting and Land rights, moratoriums, weather, and customer readiness will influence the project timing</i></p>	<p>Planning is ongoing. The project will be constructed in a phased approach.</p> <p>Estimated project start: Phase 1: Boulder Open Space (Sept 2024) Phase 2: South end of Park (Q2 2025) Phase 3: Middle section of Park (Q4 2025) Phase 4: North end of Park (Q1 2026)</p>	<p>Potential opportunities in 2025 and beyond focused on other aspects of sustainability and resiliency at Chautauqua (e.g., electrification, solar access, energy storage)</p>

Reliability and Resiliency

Description	Timing	Panel Involvement
<p>Battery Storage</p> <p>Xcel Energy and COB are reviewing potential sites and options for deployment to bolster critical facility reliability, resilience, and operations along with assessing potential benefits to distribution system infrastructure.</p> <p>It is anticipated that this project will take time to plan due to the detailed design and potential battery storage lead times (12-24 months) for potentially large battery systems.</p>	<p>September 2023-December 2026</p>	<p>Learnings expected to inform future working group on microgrid opportunities</p>
<p>Wildfire Mitigation</p> <p>As part of our commitment to safety, Xcel Energy is continually making strategic investments and improvements to support our power grid, build resilience, and increase our situational awareness to mitigate wildfire risk.</p> <p>https://xcelenergywildfiremitigation.com/program-overview/</p>	<p>Recent investments include:</p> <ul style="list-style-type: none"> • System Hardening • Operational and situational awareness • Unmanned Aerial System (UAS) and LiDAR • Wildfire Safety • Detection Cameras • Risk Modeling 	<p>Ongoing efforts will continue into 2024 and beyond.</p> <p>N/A</p>

Upcoming Public Outreach & Engagement

Upcoming Public Outreach & Engagement

For more details: <https://bldr.fyi/Climate>

Climate Initiatives Community Meetings

- Feb. 21: Climate Overview
 - City Council Chambers
 - 5:30 to 7 p.m.
- April 17: Nature-Based Solutions
- July 24: Circular Economy
- Sept. 25: Energy

Office Hours

- Drop-in, come chat with staff
- Themed

First session:

- **Friday, Feb. 16**, 2 to 3:30 PM
- Hybrid (Online and at 1777 Broadway)
- Topic: Energy

2024 Panel Meetings and Events

- 2024 Advisory Panel Meeting Schedule
 - May 6, 5:30-7:30
 - Aug. 5, 5:30-7:30
 - Oct. 7, 5:30-7:30
- Public engagement events (see prior slides)
- Rolling workplan review opportunities
 - Opportunities for technical and equity contributions



Thank You!

