



**Public Service Company of Colorado (PSCo)
2021-2023 Transportation Electrification Plan (TEP)
Quarterly Stakeholder Meeting
December 17th, 2021**

AGENDA

1. TEP Program Development, Updates, & Timelines
2. Partnerships, Research, & Innovation (PRI) Project Updates
3. October 15th EV Filing
4. Wrap Up

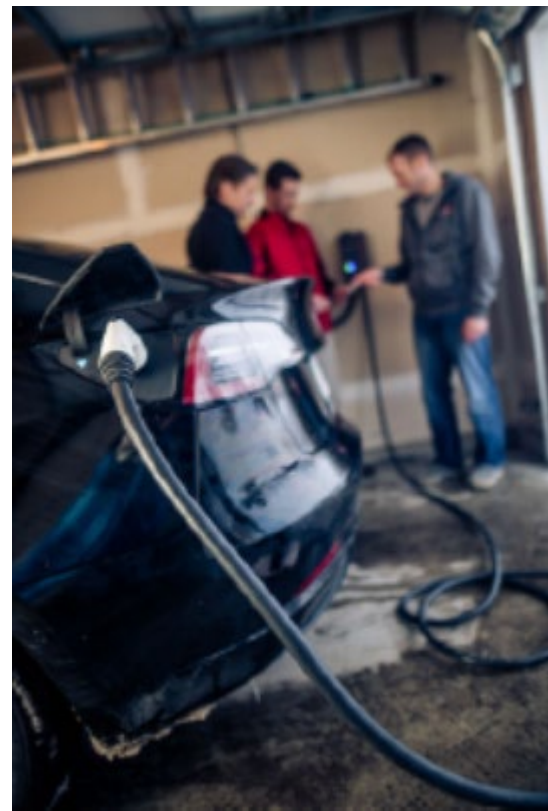
1. TEP PROGRAM DEVELOPMENT, UPDATES, & TIMELINES

Equity Programs, Residential Portfolio, MFH Portfolio, Commercial Portfolio, Advisory Services, Partnerships/Research/Innovation (PRI)

Residential Home Charging Programs

EV Accelerate At Home (EVAAH)

- RFP to select partner electricians is complete
- Program Launched in Colorado on August 5th
 - Provides hassle-free installation and maintenance of utility-owned level 2 charger for \$13.29 monthly fee
 - EV static optimization required for 1 year (opt-out for income-qualified customers)
 - As of 12/01/21:
 - 512 Applications received
 - 220 Residential charger installs completed
 - \$182,384 capital spend
- Home Wiring/Charging Station Rebate
 - Up to \$500 market rate or \$1,300 for income-qualified customers
 - Offered to customers installing pre-qualified charging stations
 - As of 12/01/21:
 - 168 approved applicants (including rebates given through EVAAH; 8 income-qualified)
 - \$90,400 capital spend



Residential Optimization

Optimize Your Charge Program (Static Optimization)

- Program live in CO Aug 2021
 - Customers get \$50 annual bill credit for charging at least 25% of the time during one of Xcel Energy's three off-peak charging schedules
 - Current participation via eligible Level 2 chargers (Enel X & ChargePoint), we are working to add more participation options in Q1 2022, but the vendor we had selected has fallen out
 - 636 total participants as of 12/01/21 (includes EVAAH), 184 of these participants chose to *Bring Their Own* charger

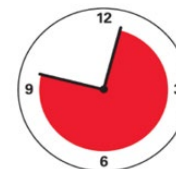
Charging Perks Pilot (Dynamic Optimization)

- Pilot launch: June 2021 for Tesla; Sept 2021 for GM, Ford, Honda & BMW
- Pilot details
 - Participants receive a \$100 incentive for enrolling, additional incentive at the end of 2021 and 2022 (\$50 for Level 1 charging, \$100 for Level 2 charging)
 - Xcel Energy, along with automakers and evPulse (for Tesla), work together to schedule EV charging when renewables are abundant, and costs are lowest
 - 600 total participant cap, minimum of 50 vehicles per manufacturer planned
- 168 participants as of 12/01/21



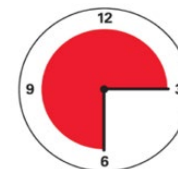
9:00 p.m. - 6:00 a.m.

21:00 - 06:00



12:30 a.m. - 9:30 a.m.

00:30 - 09:30



6:00 a.m. - 3:00 p.m.

06:00 - 15:00



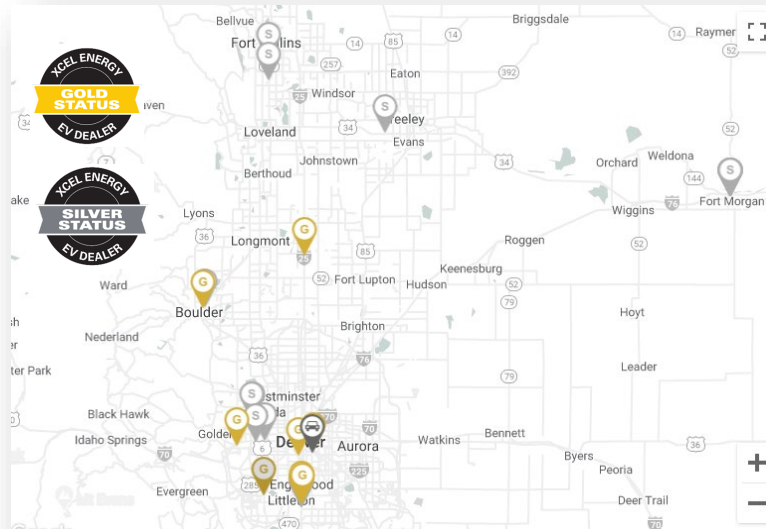
EV Purchase/Lease Rebate for Income Qualified Customers

- Income-qualified customers get \$3,000 off a pre-owned EV and \$5,500 off a new EV; maximum MSRP or sale price is \$50,000
- Program live in August, over 50 applications have been received to date
- About 15 new EV drivers out on the road because of the rebate; capital spend to date is \$80,000
- Customers can become pre-qualified and get instant rebate at dealer in our network, or can apply for the rebate after they purchase the car from any dealer, whether in-network or out-of-network
- Continuing to work with partners like GRID Alternatives Colorado, Drive Electric Colorado, SWEEP, Zozo Group and others on targeted outreach
- Upcoming events:
 - Swansea/Elyria/Globeville EV education event
 - Ride and Drive in Garfield County
- Recent events: Denver Auto Show sponsorship, Ride and Drives in Five Points neighborhood and in Summit County, education/outreach event in Erie, and various webinars with partner organizations



EV Dealer Network (Advisory Services)

- Our voluntary network of local dealer partners was launched in March 2021
- We offer in-showroom tools and resources to help customers save and get set to charge at home
- Network has organically grown across Xcel Energy's footprint to include 55 dealers, with 25 of them in CO
- Our network has sold 700 EVs since March launch, with over 447 sold in CO
- Dealers in our network have been trained to offer our EV Rebate to our income qualified customers
 - To date, 28 customers have received a code to get the instant rebate and 5 have redeemed it in network for an EV purchase or lease



Multi-Family Housing (MFH) Programs

EV Supply Infrastructure (EVSI)

- Application window closed 9/30
- 33 Applications during Q3/4 Application Round
- All 33 Sites Approved
 - 14 Assigned
 - 19 Shared

Rebates

- Helping EVSI applicants and others apply for the rebate
 - New Construction Rebate
 - Income-Qualified and Higher Emissions Community Rebates (working with Energy Outreach Colorado)

Advisory Services

- Intake Form launched 6/25
- 197 Total MFH leads received as of Dec. 1
- 286% Increase from Sept. 1



Commercial TEP Programs

EV Supply Infrastructure (EVSI)

- 9/30 site applications received:
 - 28 workplace
 - 5 public and community hubs
 - 10 fleet
 - 2 Primary General
 - All accepted except for 3 that were referred to the Small Business Rebate Program
 - Including Com and MFH apps, could support more than 500 ports!

Rebates

- Applications received since 9/30:
 - 2 Fleet and Workplace IQ and HEC
 - 1 Community Charging Hubs IQ and HEC
 - 0 Small Business Rebate and Enhanced Equity Rebate

Advisory Services Leads

- Intake form launched 6/25; Dec. 1 results:
 - 65 Total Fleet – 261% Increase from 9/1
 - 127 Total Public Charging – 202% Increase
 - 45 Total Community Charging Hubs – 45% Increase
 - 149 Total Workplace – 186% Increase
 - 31 Total Small Business



Proposal To Switch To a Rolling Application Process

Problem: Majority of first round applicants did not go through an initial inquiry meeting.

- Impact on customers: A large quantity of applications lacked key info (such as line extension quotes and general project feasibility) or lacked general knowledge about the programs.
- Impact on Xcel Energy: Makes timely application reviews very challenging.

Proposed Solution:

- Given the amount of interest in the programs, Xcel Energy believes a rolling application process would better help meet customers where they are in their EV journey.
 - Allow Advisors to provide a more comprehensive journey through the process.
 - Anticipate customers will submit higher quality applications and allow all parties involved to initiate construction more quickly on approved applications.
- No proposed change to application reviews and scoring. Applications will still be compared against previous applications and baseline criteria to determine selections.

School Buses

School Bus Rebate Program

- Launched in October
 - Held 4 webinars across the territory
 - Continuous account management outreach
 - Presentation with USGBC CO
- Intakes are occurring now
 - 5 customers have submitted intake forms for advisory support, in review
 - Will take 3-6 months to review data
 - Grants applications will run in parallel

Funds Available	\$2,200,000
Rebate per Bus	\$275,000
Buses Funded	8



Xcel Energy Owned DCFC

- RFP in process to select vendor to conduct siting analysis to identify ~24 geographic locations for connector and market stations
- RFP to select equipment and software in process
- Accept and evaluate applications for site hosts in the identified geographic locations in early 2022
- Build 10-12 stations in 2022
- Repeat process in 2023



A report summarizing this process was filed in the TEP proceeding on December 13.

Advisory Services – Fleet Electrification

Fleet Electrification Advisory Program

- Assessments have been done
 - 31 fleets have submitted intake forms
 - 5 have completed full assessment
 - Expected another 4-7 to complete by year end
 - Covers all fleet market segments
- 155 vehicles assessed, including SUVs and Trucks
- Intakes continue and are on a rolling basis



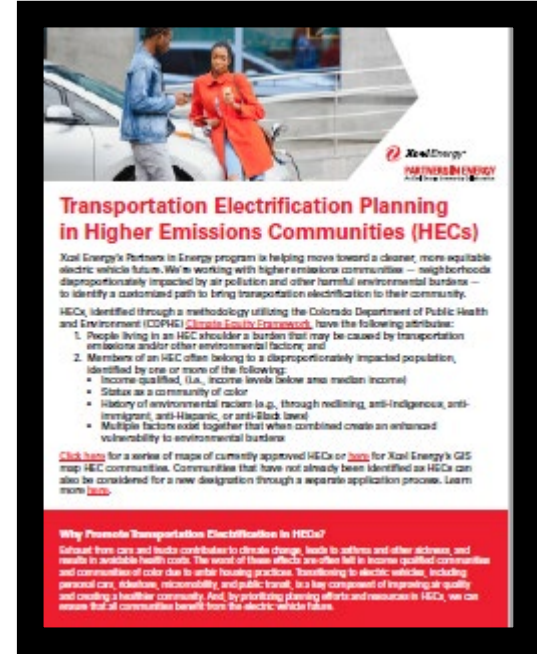
Advisory Services – Communities

Standard Community EV Planning

- Xcel Energy's Partners in Energy program
 - Community EV plan development at no cost
- Boulder Regional EV plan development underway
 - Broad regional initiative providing opportunity to align individual community-based plans
- Five community plans initiated YTD
- Next round of applications due Jan 15, 2022

Higher Emission Community (HEC) EV Planning

- HEC community-level EV planning through Partners in Energy
 - Criteria will align with other Xcel Energy HEC programs
 - Anticipate greater focus on implementation support versus standard community EV planning
- Introductory webinar held December 15th
 - Recording available <https://xcelenergycommunities.com/document/transportation-electrification-planning-higher-emissions-communities>
- Initial community selection late January 2022



Transportation Electrification Planning in Higher Emissions Communities (HECs)

Xcel Energy's Partners in Energy program is helping move toward a cleaner, more equitable electric vehicle future. We're working with higher emissions communities — neighborhoods disproportionately impacted by air pollution and other harmful environmental burdens — to identify a customized path to bring transportation electrification to their community.

HECs identified through a methodology utilizing the Colorado Department of Public Health and Environment (CDPHE) [Climate Equity Framework](#), have the following attributes:

1. People living in an HEC shoulder a burden that may be caused by transportation emissions and/or other environmental factors; and
2. Members of an HEC often belong to a disproportionately impacted population, identified by one or more of the following:
 - Income qualified, (L.A., income levels below area median income)
 - Status as a community of color
 - History of environmental racism (e.g., through redlining, anti-Indigenous, anti-immigrant, anti-Hispanic, or anti-Black laws)
 - Multiple factors exist together that when combined create an enhanced vulnerability to environmental burdens

[Click here](#) for a series of maps of currently approved HECs or [here](#) for Xcel Energy's GIS map HEC communities. Communities that have not already been identified as HECs can also be considered for a new designation through a separate application process. Learn more [here](#).

Why Prioritize Transportation Electrification in HECs?

Colored from cars and trucks contributes to climate change, leads to asthma and other ailments, and results in avoidable health costs. The worst of these effects are often felt in income-qualified communities and communities of color due to unfair housing practices. Transitioning to electric vehicles, including personal cars, shared, ride-sharing, and public transit, is a key component of improving air quality and creating a healthier community. And, by prioritizing planning efforts and resources in HECs, we can ensure that all communities benefit from the electric vehicle future.

2. PARTNERSHIPS, RESEARCH, & INNOVATION (PRI)

Project Updates

PRI Portfolio Update

- 60-Day Notices filed in October & November for initial 5 projects
 1. *Municipal Refuse Electrification*
 2. *Paratransit Electrification*
 3. *V2X and Resilience*
 4. *Residential Resilience and Managed Charging*
 5. *Electric Car Sharing*
- Stakeholder comment period is closed for these 5 notices
- Receiving positive support and constructive feedback
- Preparing Final Summary Reports for the initial 5 (to be filed in the TEP proceeding in January 2022)
- 1 additional PRI project to bring forward for discussion: DCFC + Storage

Project OVERVIEW

DCFC + Storage

Outcomes / Partners / Scope / Equity

Lower barriers to both public and fleet fast charging by providing technology solutions, paired with rate design, to lower customer demand charges and alleviate grid constraints

- Outcomes:** Advancing grid-friendly EV adoption. Adding a Battery System to DC Fast Charging would ultimately deliver cost savings to the customer, provide peak load reduction for the grid, and potentially deliver additional sources of grid value.
- Partners:** Site hosts, fleet operators, charging station vendors, battery storage vendors
- Scope:** Partner with a private-owned charging hub and implement Xcel owned battery systems to identify load shifting and bill savings opportunities
- Equity:** System capacity constraints and high demand charges can be a barrier to the adoption of fast charging - battery storage can reduce costs to site hosts and increase availability of charging



Milestones

Timeline

Identify Site Locations and Battery Use Cases	Q1 2022
Battery Vendor RFP	Q1 2022
Install Batteries at pre-determined charging locations	Q3 2022
Implementation and Data Gathering	Q3 2022 – 2023
Project Evaluation and Scaling Opportunities	Q4 2023

Costs

\$400k - \$2M

- 80% Capital / 20% O&M

PRI Objectives Met

Ease of EV Charging

Lower system costs / Increase EV charging benefits

Gain new Insights / Stimulate Innovation

Promote, Accelerate & Deploy

Promote Equity

DCFC + Storage

System Benefits and Use Cases

Two use cases to be tested

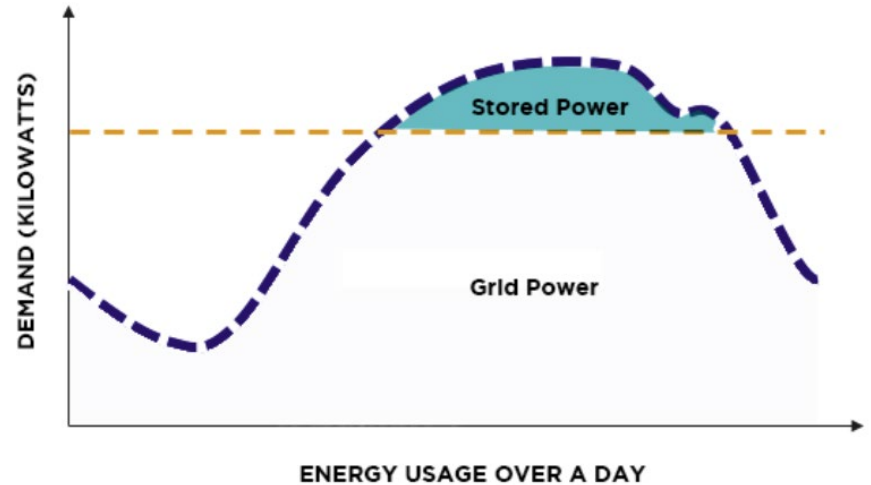
- Non-Wires Alternative (NWA)
- Customer Bill Savings

NWA – Overcome grid constraints to enable buildout of high-capacity charging

Customer Bill Savings – Pair storage with dynamic pricing to reduce expenses to site hosts and encourage investment in DCFC

Pilot will help inform any new Company EV programs moving forward

PEAK SHAVING FROM BATTERY STORAGE



60/90 Day Notices: Partnerships, Research, Innovation

Stakeholder Feedback – Key Themes & Examples*

Category	Themes & Suggestions
Overall PRI Portfolio	<ul style="list-style-type: none"> • Support for and enthusiastic about PRI as a whole • Equity and community benefit focuses appreciated across portfolio design • Partnership interest across <i>all</i> PRI projects (<i>i.e.</i> – <i>co-funding, resources, siting, etc.</i>) • Subject matter expertise support offered on key technical focused projects
Application, Process, Scoring	<ul style="list-style-type: none"> • Ask to define “Communities” with a level of flexibility • “Community Need Assessments” – provide details on when, where, how conducted • Support for income-qualified communities who may not be able to co-resource
Reporting, Measurement, Evaluation	<ul style="list-style-type: none"> • Compare EV to ICE vehicles when and where possible to drive key insights • Numbers of applications details collected and shared to inform participation rates • Ask applicants to share key ridership and usage details to inform pgrm. expansion
Communication, Outreach, and Education	<ul style="list-style-type: none"> • Robust and culturally competent outreach and partnership recommended • Funding partners recommended to help scale and drive projects and outcomes • Local government(s) and applicant coordination support recommended
Outcomes	<ul style="list-style-type: none"> • Drive lasting outcomes (<i>i.e.</i> – don’t take vehicles back, or uninstall at projects’ end) • Consider vehicle and equipment purchases vs leases • Support for resiliency and managed charging that leads to shared public benefits

3. OCTOBER 15TH EV FILING

EV Filing on October 15th

Topics (21AL-0494E):

- Commercial Charging Rates
 - Updated S-EV-CPP Rate
 - New S-EV Rate
- Equity PIM
 - \$1.5m total potential (\$1.2m for per-port incentives, \$200,000 for exceeding equity port forecasts, \$100,000 for achieving equity targets in Advisory Services)
- DCFC Rates at Xcel Energy Stations
 - On-peak and off-peak kWh rates, specific to market and connector stations
 - Proposed rates range between \$0.16 per kWh to \$0.45 per kWh

Process:

- Intervention period is now closed
- Procedural schedule still to come

4. WRAP UP

Next meeting in March 2022

CO TEP Evaluation and Reporting RFP - Update

We have selected a vendor and are in the contracting process.





| OUR COMMITMENT

Net-Zero Energy Provider by 2050

Carbon Reduction Commitments:

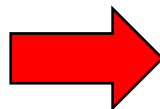
- ✓ Gas
- ✓ Electricity
- ✓ Transportation



Electric Vehicles

With new EV programs and charging infrastructure, our clean energy leadership includes transportation.

**FIND OUR ELECTRIC TRANSPORTATION
REPORT** 



**DRIVE TOWARD
A CARBON-FREE
FUTURE:**

Electric Transportation Vision

 **Xcel Energy**[®]

How to Reach Out with EV Questions

- Residential Program Questions:
 - Rebates: email us at EVrebates@xcelenergy.com
 - EV Accelerate At Home: email us at ElectricVehicles@xcelenergy.com
 - Speak to a member of the EV Concierge Team by calling 1-800-895-4999
- Commercial and MFH Infrastructure Program Questions:
 - <https://co.my.xcelenergy.com/s/business/ev>
 - Click “Let’s Connect” to start working with an EV Advisor
 - Click “Contact Us” for general questions
- Advisory Services Questions:
 - Fleet Electrification Advisory Program: <https://co.my.xcelenergy.com/s/business/ev/fleet>
 - Community Assessments (Partners in Energy): email PartnersinEnergy@xcelenergy.com

How to Reach Out with EV Questions (cont.)

- General Inquiries:
 - Email us at ElectricVehicles@xcelenergy.com
 - Speak to a member of the EV Concierge Team by calling 1-800-895-4999
- Stakeholder Group:
 - To join stakeholder list, email Patrick Murphy at Patrick.J.Murphy@xcelenergy.com

Additional Contact Information

Jack Ihle

Xcel Energy

Director, Regulatory and Strategic Analysis

Jack.Ihle@xcelenergy.com

Jason Peuquet

Xcel Energy

Principal Consultant, Electric Transportation

Jason.J.Peuquet@xcelenergy.com

Patrick Murphy

Xcel Energy

Regulatory Case Specialist

Patrick.J.Murphy@xcelenergy.com

Steve Wishart

Xcel Energy

Director, Pricing and Planning

Steven.W.Wishart@xcelenergy.com

Deb Erwin

Xcel Energy

Director, Policy and Planning

Electric Transportation

Deborah.E.Erwin@xcelenergy.com

Ryan Pocius

Xcel Energy

Lead, Partnerships, Research, Innovation –

Strategic Partnerships and Ventures /

Electric Transportation

Ryan.M.Pocius@xcelenergy.com

Quick Break

Returning at ____ am MT

