



**PUBLIC SERVICE COMPANY OF COLORADO
2021-2023 TRANSPORTATION ELECTRIFICATION PLAN (TEP)
QUARTERLY STAKEHOLDER MEETING**

March 7, 2023

TEP Stakeholder Facilitation



**GREAT PLAINS
INSTITUTE**

Housekeeping Items

Participation: During presentations, please submit your comments and questions in the chat. You can also use the “raise hand” feature to indicate you would like to join the conversation. GPI staff will monitor the chat to pull out questions.



Closed Captioning: For those who may be interested, closed captioning can be turned on during this meeting

1. On the menu at the bottom of your screen, click on the “Show Captions” icon.
2. Click-and-drag the captions to move their position in the meeting window.
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AGENDA

1. TEP Program Development, Updates, & Timelines
2. 2024-2026 TEP Development – Workshop Feedback and Update
3. Wrap Up



1. TEP PROGRAM DEVELOPMENT, UPDATES, & TIMELINES

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



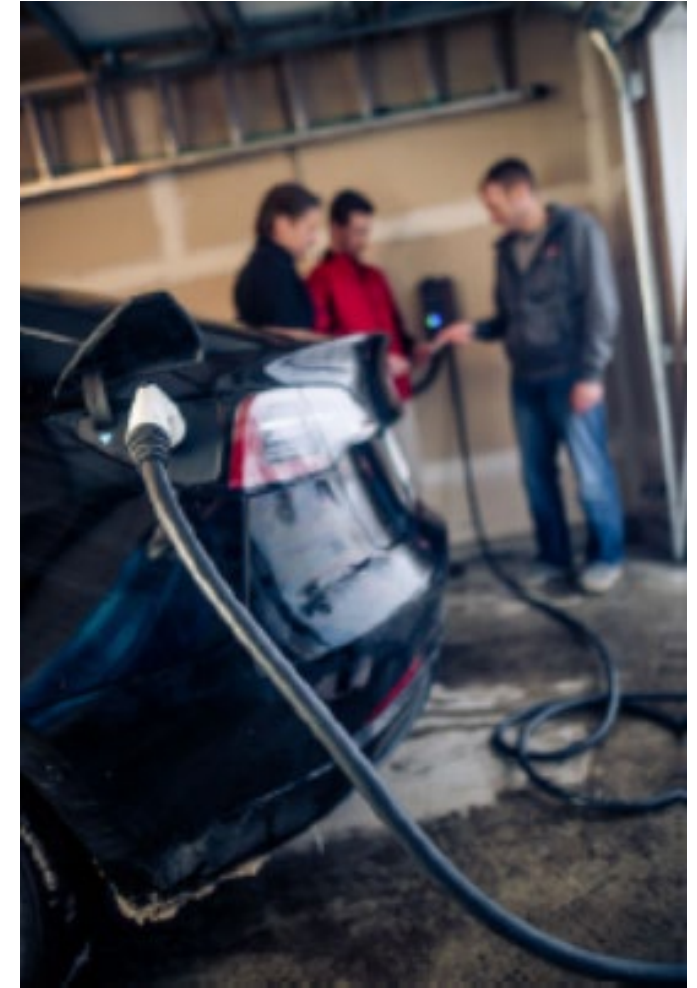
Residential Home Charging Programs

EV Accelerate At Home (EVAAH)

- Program Launched in Colorado on August 5, 2021
 - 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 3/1/2023:
 - 1,173 completed installations
 - 244 pending applications
- *Capital spend as of 3/1/2023: \$960,781

EV Charger/Wiring Rebate

- Up to \$500 market rate or \$1,300 for income-qualified customers
 - Offered to customers installing eligible charging stations or driving eligible vehicles
 - As of 3/1/2023:
 - 1,759 approved applicants (including rebates given through EVAAH; 99 income-qualified)
- *Capital spend as of 3/1/2023: \$991,808



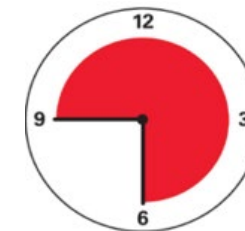
Residential Optimization

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 three off-peak charging schedules.
 - Current participation via eligible Level 2 chargers (Enel X & ChargePoint) and WeaveGrid evPulse for most Hyundai, Kia, Tesla, Lexus & Toyota EVs.
 - As of 3/1/2023, 2,956 participants in OYC (1,169 via EVAAH, 1,787 using their own charger or enrolling through the WeaveGrid API interface)

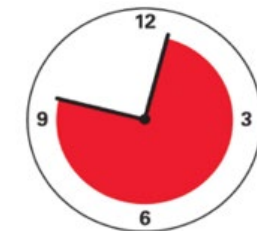
Charging Perks Pilot (Dynamic Optimization)

- Pilot launched: June 2021 for Tesla; Sept 2021 for GM, Ford, Honda & BMW. Pilot has been extended through 2023.
- Pilot details
 - Participants receive a \$100 incentive for enrolling, additional incentive at the end of 2021 and 2022 and 2023 (\$50 for L1 charging, \$100 for L2 charging)
 - Xcel Energy, along with automakers and evPulse (for Tesla), work together to schedule EV charging when renewables are abundant, and costs are lowest.
 - Participant cap increased from 600 to 1000 vehicles, minimum of 50 vehicles per manufacturer planned.
- 631 active electric vehicles (participants) as of 3/1/2023



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

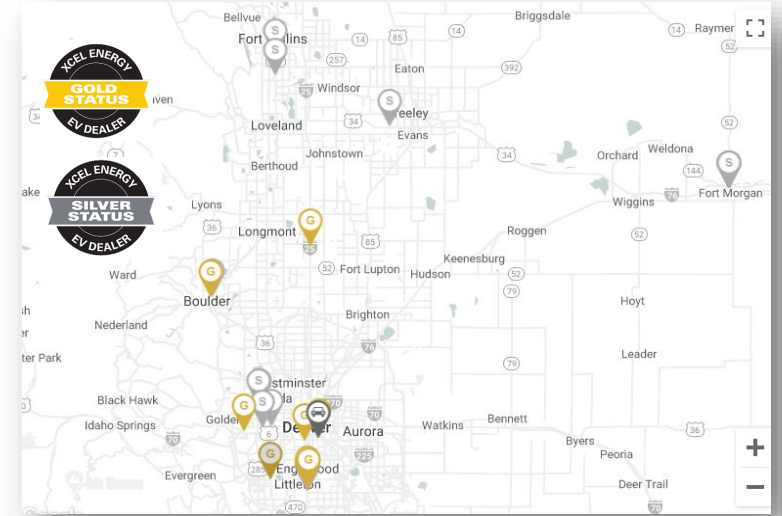
- Income-qualified customers get \$3,000 off a pre-owned EV and \$5,500 off a new EV; maximum MSRP or sale price is \$50,000
- Program live in August of 2021; over 150 applications received to date
- As of 3/1/2023, 133 rebates issued (97 new, 36 pre-owned) and about 159 applications in process
- Customers can become pre-qualified and get an instant rebate at dealers 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, Women Who Charge, CLEER, and others on targeted outreach
- Upcoming events:
 - Planned events: Lafayette Cars and Coffee (first Saturday every month), Denver Water EV Education Event, Denver Auto Show, Lakewood Earth Day Celebration, Xcel Energy Expo
 - Recent events: “Boost your EV Charging Plans” – a series of webinars for CO C&I and Community customers

*Capital spend as of 3/1/2023 is over \$640,000



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 up to charge their EVs at home
- The network has grown!
 - 34 Dealers in Colorado, 77 dealers across Xcel Energy's footprint
 - 5+ more dealerships planned in Colorado by year-end 2023
- Our network has sold 4,664 EVs since its 2021 launch, with 2,612 sold in CO by Jan 2023
- Dealers in our network have been trained to offer our EV Rebate to our income-qualified customers
 - To date, 226 customers have received a code for the instant rebate, and 28 have redeemed it in-network for an EV purchase or lease.



Multi-Family Housing (MFH) Programs

EV Supply Infrastructure (EVSI) as of 3/1/2023

- 2023: Multifamily Housing – Shared Parking EVSI has received 2 applications for customer sites that support 8 ports.
- 2023: Multifamily Housing – Assigned Parking EVSI has received 3 applications for customer sites that support 23 ports.
- To Date: Multifamily Housing – Shared Parking EVSI has received 29 applications for customer sites that support 135 ports
- To Date: Multifamily Housing – Assigned Parking EVSI has received a total of 37 applications for customer sites that support 579 ports

Rebates

- Helping EVSI applicants and others apply for the rebate
 - MFH New Construction Wiring Rebate (3 applications as of 3/1/2023)
 - MFH Income-Qualified and Higher Emissions Community Charger Rebates (working with Energy Outreach Colorado) (3 applications as of 3/1/2023)

Advisory Services

- As of 3/1/2023, 373 MFH leads received to date

*Capital spend as of 3/1/2023: \$2,402,284



Commercial TEP Programs

As of 3/1/2023:

Fleet EVSI

- 2023: Received 6 applications for customer sites that support 36 ports
- To Date: Received 46 applications for customer sites that support 258 ports

Workplace EVSI

- 2023: Received 5 applications for customer sites that support 34 ports
- To Date: Received 63 applications for customer sites that support 461 ports

Primary General EV Pilot

- Received 5 applications for customer sites that support 94 ports to date

Community Charging Hubs

- 2023: Received 2 applications for customer sites that support 12 ports
- To Date: Received 9 applications for customer sites that support 38 ports

Public EVSI

- 2023: Received 2 applications for customer sites that support 10 ports
- To Date: Received 53 applications for customer sites that support 286 ports

Small Business

- Received 14 applications and issued 6 rebates (3 IQ/HEC Charger Rebates and 3 Market Rate Wiring Rebates)



*Capital spend as of 3/1/2023: \$2,526,844

Public Service DCFC Program

Sites selected based on Commission requirements for under-served areas.

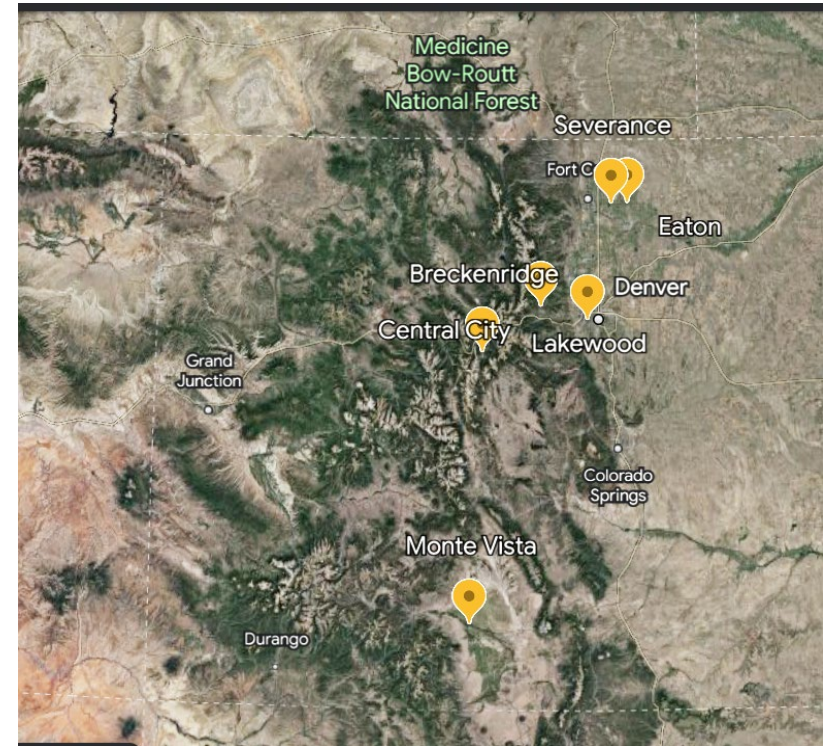
Two scenarios:

- Market (M)- Public areas within communities such as city owned, shopping areas, etc.
- Connector (C)- Close proximity to major highways and interstates,

6 sites selected, possibly adding 1-2 if budget allows:

- Severance (C)
- Eaton (C)
- Lakewood (M)
- Monte Vista (C)
- Breckenridge (M)
- Central City (M)

Sites will be completed by fall 2023 \$5M CapEx



School Buses

School Bus Rebate Program

- Launched in October 2021
 - Held 4 webinars across the territory
 - Continuous account management outreach
- 3 school districts have submitted intake forms for participation in School Bus Rebate program
- 7 school districts currently taking part in FEAP vehicle suitability assessment (required)

Funds Available (\$2.2 M)	Fund up to 8 buses
Rebate per Bus	\$275,000 Max or 75% of Project
Buses Funded YTD	0



Advisory Services – Fleet Electrification

Fleet Electrification Advisory Program

- Update on Fleet Assessments:
 - 20 fleets currently participating
 - 31 have completed a full assessment
 - Expect those participating and an additional 10-12 to complete by year-end
 - Covers all fleet market segments
- Nearly 1,400 vehicles analyzed, Class 1-8 (including heavy-duty vehicles)
- Intakes continue on a rolling basis



Advisory Services – Communities


Community EV Planning

Delivered through Xcel Energy's Partners in Energy program:

- Planning incorporates and support for implementation leverages Xcel Energy programs and 3rd party resources
 - Over 15 EV plans completed to date
 - Applications now accepted quarterly
- Communities pursuing HEC designation as a part of broader EV planning
- Growing interest in electrifying transportation as part of broader plans to integrate beneficial electrification into a community's plan
- No participation to date with HECs applying for Community EV Planning.

Application

Colorado | Minnesota


PARTNERS IN ENERGY
An Xcel Energy Community Collaboration

Partners in Energy – Electric Vehicle Planning

More communities are realizing electric vehicle (EV) planning plays a critical role in helping them reach their energy, climate, and mobility goals. In 2019, Partners in Energy expanded its energy planning offering to include EV planning and implementation support. This involves helping communities gather stakeholders to develop and implement EV action plans that address the local challenges with actionable strategies and resources.

Partners in Energy support is not limited to communitywide EV action plan development and implementation. Support options are also available for communities looking to build on existing sustainability or transportation plans, communities who are seeking regional planning assistance, smaller communities or geographic areas (e.g., districts, neighborhoods), as well as those that don't fit the traditional definition of community but are interested in supporting transportation electrification.

Through Partners in Energy, Xcel Energy offer tools, data, and expertise to help communities analyze their energy and EV trends, establish goals, and identify and implement their strategies to encourage electric vehicle adoption and charging infrastructure. The planning and implementation process is tailored to the unique needs and priorities of each community. Accepted communities will participate in a scoping meeting to determine the pathway that best aligns with your community's interests and capabilities.

Partners in Energy is offered at no cost to participating communities in Colorado and Minnesota.

Partnerships, Research, & Innovation (PRI)

Portfolio Update

1 of 2

EV Accelerate Innovation (EVAI)

(1) EV Equitable Car Sharing* | Launched: July 27, 2022

Underserved community focus, providing access to EV car-sharing

- **8 cmty.** participants; **25 LD EVs** across **21 sites** (includes rural, mountains, metro, urban)
- **17 of 25** EVs procured | **5 of 8** contracts signed | **\$750k of \$1.5mm** capex deployed
- Finalize contract signings Q1 2023, EV procurements, & build EVSE/I Q2-Q3, 2023



Car Sharing

(2) EV Paratransit Fleets* | Launched: July 27, 2022

Special needs customer focus, and paratransit fleet operator electrification

- **3 fleet** operator participants; **5 MD EVs** across **3 to 4 sites** and up to **5 routes**
- **3 of 3** contracts signed | **5 EVs** ordered | approx. **\$1.4mm** capex deployed
- Finalize vehicle deliveries and EVSE/I build-outs Q1-Q3 2023



Paratransit

(3) EV Refuse Fleets* | Launched July 28, 2022

Healthy neighborhoods focus, and refuse fleet operator electrification

- **5 fleet** operator participants; **5 HD EVs** across **5 sites** and **5 routes**
- **5 of 5** contracts signed | **5 EVs** ordered | approx. **\$1.7mm** capex deployed
- Finalize vehicle deliveries and EVSE/I build-outs Q1-Q3 2023



Refuse

Partnerships, Research, & Innovation (PRI)

Portfolio Update

2 of 2

(4) Residential Resiliency

Study charging's impact on grid, and build a new tool to improve resiliency

- In development with National Renewable Energy Laboratory (NREL) | Q4 2023

(5) Vehicle to X (V2X) ("X" = Home, Buildings, Grid, and others)

Study & demo the feasibility of varied V2X technologies & scenarios

- Feasibility Assessment near complete; ~**April 2023 delivery** (planned, or earlier)
- Major OEM contract concluded | **2 of 2 V2H** participants signed + **SolarTac Kick-off**
- Concluding **2 school district** (V2G); and, **2 SMB** (V2B) contracts
- **Q2 to Q3 2023** EVSI builds and launches

(6) DCFC + Storage

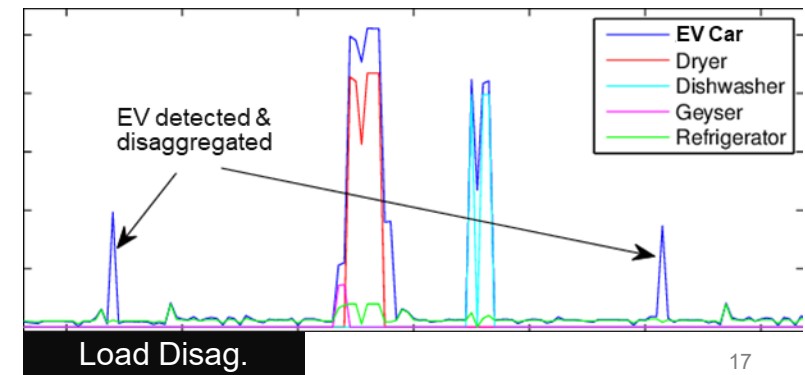
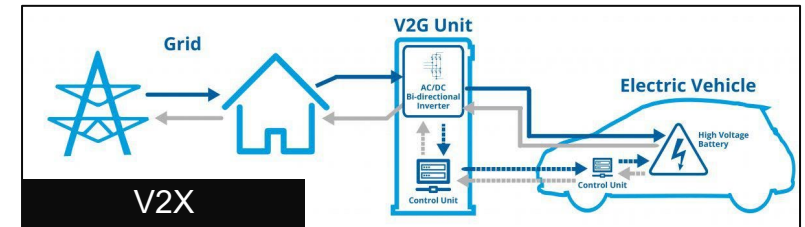
Study & demo innovative grid future-proofing and non-wire alternatives

- Vendor selected; Contract price, scope, and delivery negotiations underway

(7) Load Detection & Disaggregation (EVCGO)

Study & demo automated EV charging detection & load disaggregation

- "EV Charging and Grid Optimization" name for project = **EVCGO**
- Vendor selected; Contract price, scope, and delivery negotiations underway
- Customer pilot participation program design launch kicking off



3. DISCUSSION TOPICS

CO TEP 2024-2026

Xcel Energy TEP 2024-2026 Workshop

We hosted a stakeholder workshop with ~130 attendees (60 in-person/70 virtual). We presented quarterly updates for the current TEP as well as discussed key areas for the next TEP.

Workshop slides and notes were sent to stakeholders.

Breakout Sessions Topics:

- Managed Charging
- Equity
- Public Charging/MD&HD
- PRI

Stakeholder Feedback to Date for 2024-2026 TEP: Key Themes

Next TEP to be filed by May 15, 2023

- Offer comprehensive equity offerings with community outreach to increase participation
- Streamline project development process and interconnection timelines
- Focus on MD/HD vehicles and fleet charging
- Support for growth in public charging access
- Build out charging infrastructure capable for rapid growth in EV adoption
- Ensure TEP programs are complementary, not repetitive
- Expand on successes of first TEP
- Streamline programs and requirements to make it easier to participate
- Consider rebate options in addition to Company-provided EVSI
- Interest in managed charging program growth, and V2X demonstrations

2024-2026 TEP Focus Areas Under Development

- Strong focus on equity
- Continue to reduce barriers to adoption
- Increased access to managed charging
- Preparing for future growth in EV adoption/charging
- Addressing public charging gap
- Expand PRI portfolio, including V2X
- Enhance Advisory Services offerings

4. WRAP UP

CO TEP Semi-Annual Report – April 3, 2023

CO TEP 2024-2026 – Required by May 15, 2023

Next Quarterly Stakeholder Meeting - June 2023



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