



Drive Toward a Carbon-Free Future: Electric Transportation Vision

December 2021

Xcel Energy's EV Vision

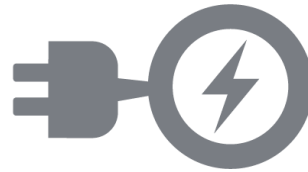
Achieving the Vision – 2030 Benefits

Our Vision is to power 1.5 million electric vehicles across our service area by 2030



\$1 BILLION

In customer fuel savings annually by 2030



**\$1 OR LESS
PER GALLON
(EQUIVALENT)**

To drive an EV with Xcel Energy's low, off-peak electricity prices



**5 MILLION TONS
OF CARBON
EMISSIONS**

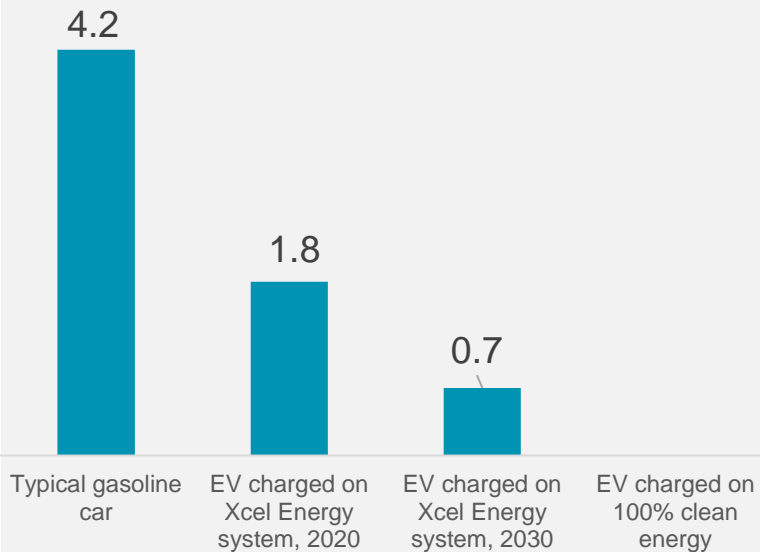
Eliminated annually by 2030 and thereafter with our clean energy

EVs Fit Xcel Energy's Strategic Priorities

Lead the Clean Energy Transition

Reduce transportation sector emissions

Tons of CO₂ per Year



Enhance the Customer Experience

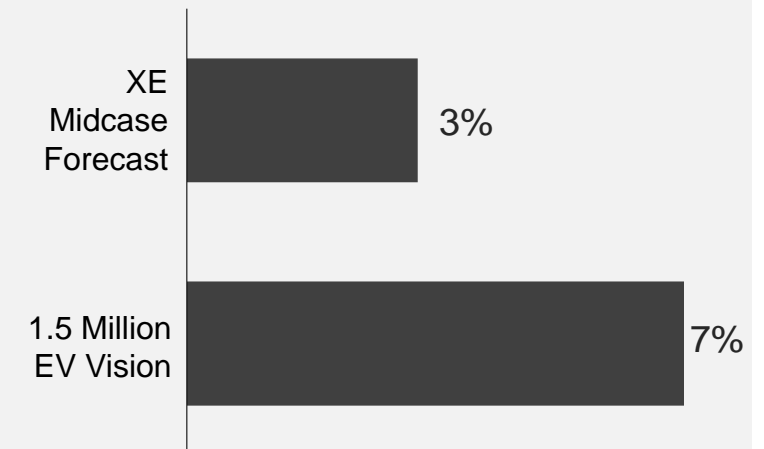
Address barriers to adoption

- Create awareness & understanding
- Minimize complexity and “hassle factor”
- Reduce EV & charger infrastructure costs
- Increase access to charging for all segments
- Focus on equity for income-qualified customers and enhanced support for higher-emissions communities (HECs)
- Lower costs by charging at off-peak times
- Create intuitive tools – fleet cost, carbon impact & ROI

Keep Bills Low

Lower rates through increased sales

Share of Retail Sales by 2030 per EV Adoption Scenario

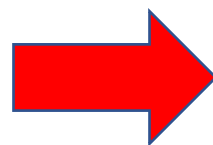


[XcelEnergy.com/Carbon](https://www.xcelenergy.com/carbon)



Carbon Reduction Commitments:

- ✓ Gas
- ✓ Electricity
- ✓ Transportation



DRIVE TOWARD A CARBON-FREE FUTURE:

Electric Transportation Vision



Electric Vehicles

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

**FIND OUR ELECTRIC TRANSPORTATION
REPORT** 

Policies Advancing the Vision

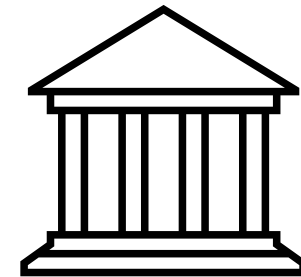
- State Policy Enablers

- State-level EV goals
- Consumer Incentives
- ZEV policies
- Legislation on energy provider role in Transportation Electrification (TE)



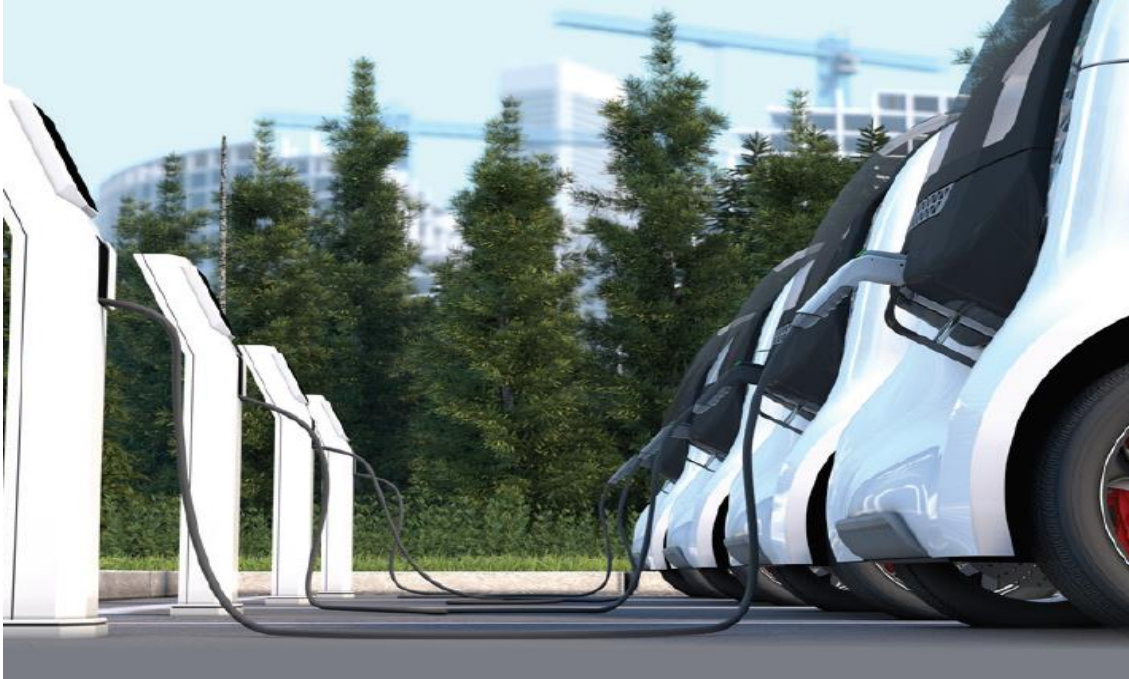
- Federal Policy Enablers

- Consumer Incentives for new/used EVs
- Tax credits for EV Charging, Advanced Manufacturing
- Federal grant funding to states



Xcel Energy Colorado's EV Programs

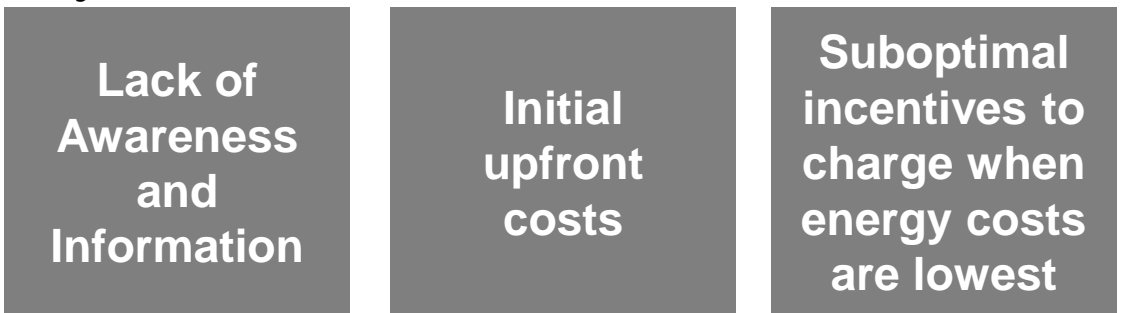
Xcel Energy EV Plans and Programs



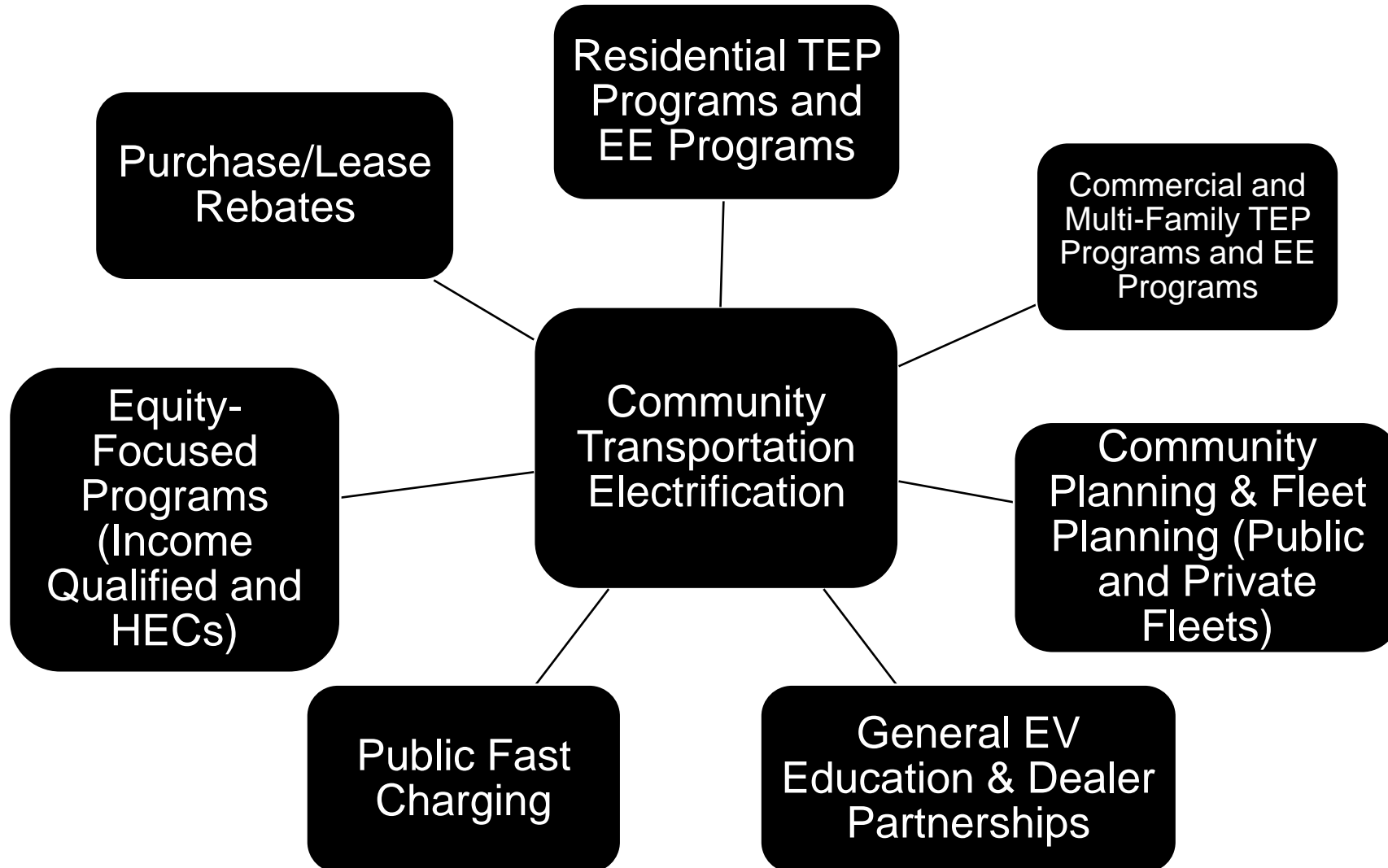
Focus on 3 Market Segments:



Key Barriers to Address:



Supporting Communities on Transportation Electrification



Xcel Energy-Colorado Transportation Electrification Plan

1st TEP (2021-2023) includes 6 portfolios and 20+ programs,
with a focus on equity

Residential

Home Wiring
Rebate

Home Charging
Service

Multi-Family Housing

Supply
Infrastructure
Charging Services

New Construction
Rebate

Commercial

Supply
Infrastructure
Charging Service

Community Charg.
Hubs

Limited
Own/Operate

Advisory Services

Residential

Fleets

Community

Partnership, Research, Innovation

V2X

Resilience

Ride Sharing

Paratransit

Purchase/ Lease Rebates

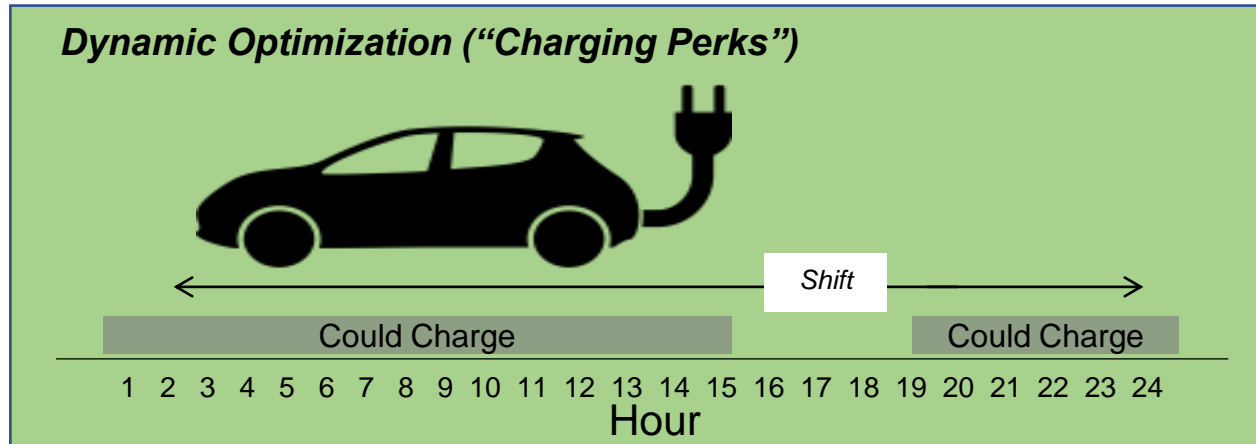
New and Used EVs
(Income-Qualified
Only)

Equity Programs:

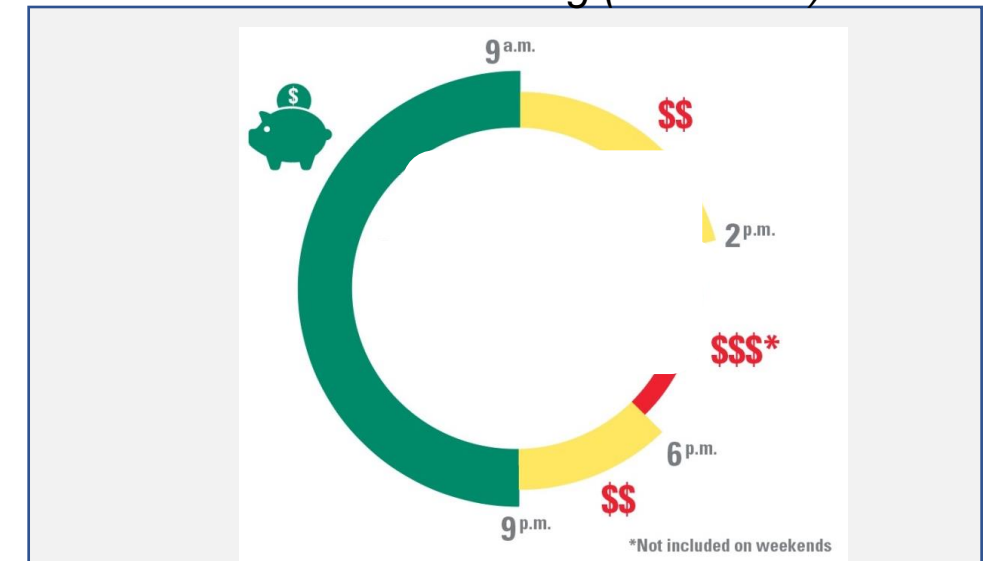
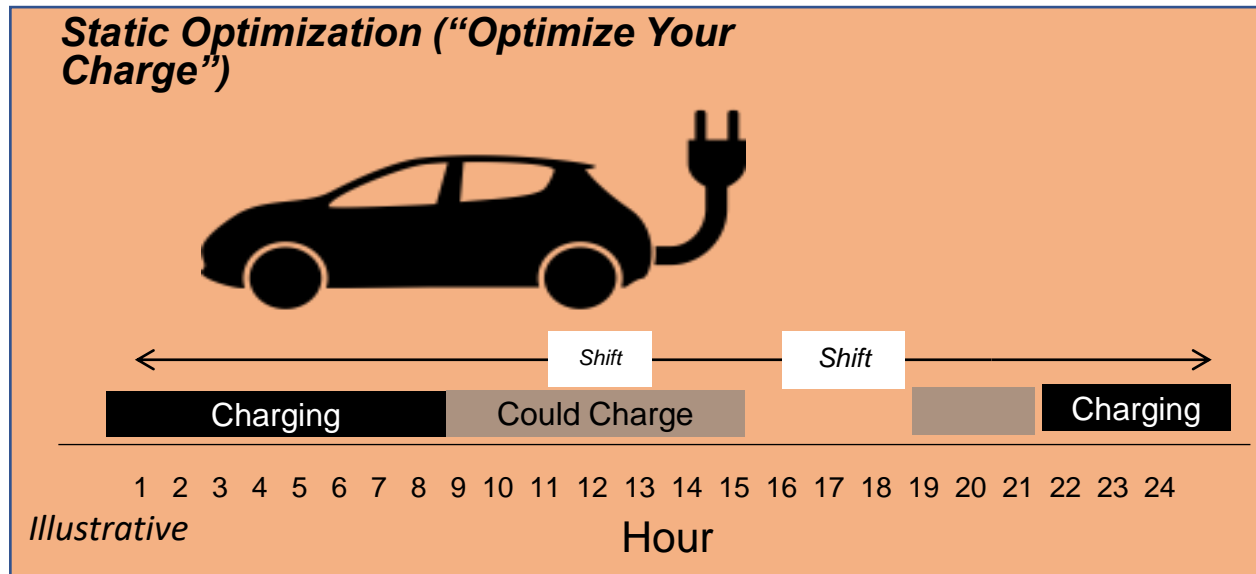
Home and Multi-Family Rebates, Commercial Charging, Community Charging Hubs, Advisory Services
\$20M across portfolios

Managed Charging

Making EV charging as energy efficient and grid-beneficial as possible



Time of Use Pricing (Illustrative)



Note: Managed charging participation required in residential CO and NM EV programs. ENERGY STAR charging stations required in SPS’s programs in NM, and featured in our PSCO programs. Income qualified customers have an opt out option for managed charging.

Eligibility for Enhanced Rebate (Equity) Programs

Program	Rebate	Criteria for Participation
Residential Income-Qualified Rebate & EV Purchase / Lease Rebates	Wiring and charger: \$1,300 New EV: \$5,500 Used EV: \$3,000	<ul style="list-style-type: none"> Enrolled in SNAP or TANF Enrolled in LEAP, CO WAP, DSM income qualified participation, CARE Income below 60 percent of state median or below 200 percent of federal poverty or below 80 percent of area median
Multifamily Housing – Income Qualified Rebate	\$2,000/charger	<ul style="list-style-type: none"> Participated in affordable housing weatherization, multifamily weatherization, affordable house rebate program in last five years or currently meet income qualification requirements for those programs Located in a higher emissions community
Commercial Fleet & Workplace – Income Qualified Rebate	\$2,200 - \$45,000	<ul style="list-style-type: none"> Demonstrate that organization is non-profit eligible to participate in Xcel Energy non-profit efficiency programs Public organization that provides services to income qualified customers or communities Located in a higher emissions community
Community Charging Hubs – Income-Qualified Rebate	Up to \$2,200 for each L2 port (4 port minimum) and up to \$31,200 for each DCFC port	<ul style="list-style-type: none"> Located in a census block where 50 percent or more of households have incomes at or below 80 percent of area median income Located in a higher emissions community
Small Business	Up to \$2,500 for EVSI Costs per port and up to \$2,000 for charger equipment costs per port (up to 3 ports)	<ul style="list-style-type: none"> For MFH customers, an income-qualified customer must have participated in affordable housing weatherization, multifamily weatherization, or affordable housing rebate program in the last five years, or currently meet income qualification requirements for those programs. For other commercial customers, an income-qualified customer must demonstrate that such customer is a non-profit eligible to participate in Xcel Energy non-profit efficiency programs or is a public organization that provides services to income qualified customers or communities. Located in a higher emission community

Enhanced Support for Higher-Emissions Communities (HECs)

Multifamily Housing Programs:

Assigned Parking:

Additional rebate of \$800 per port

Shared Parking:

Additional rebate of \$2,200 per port

Commercial Programs:

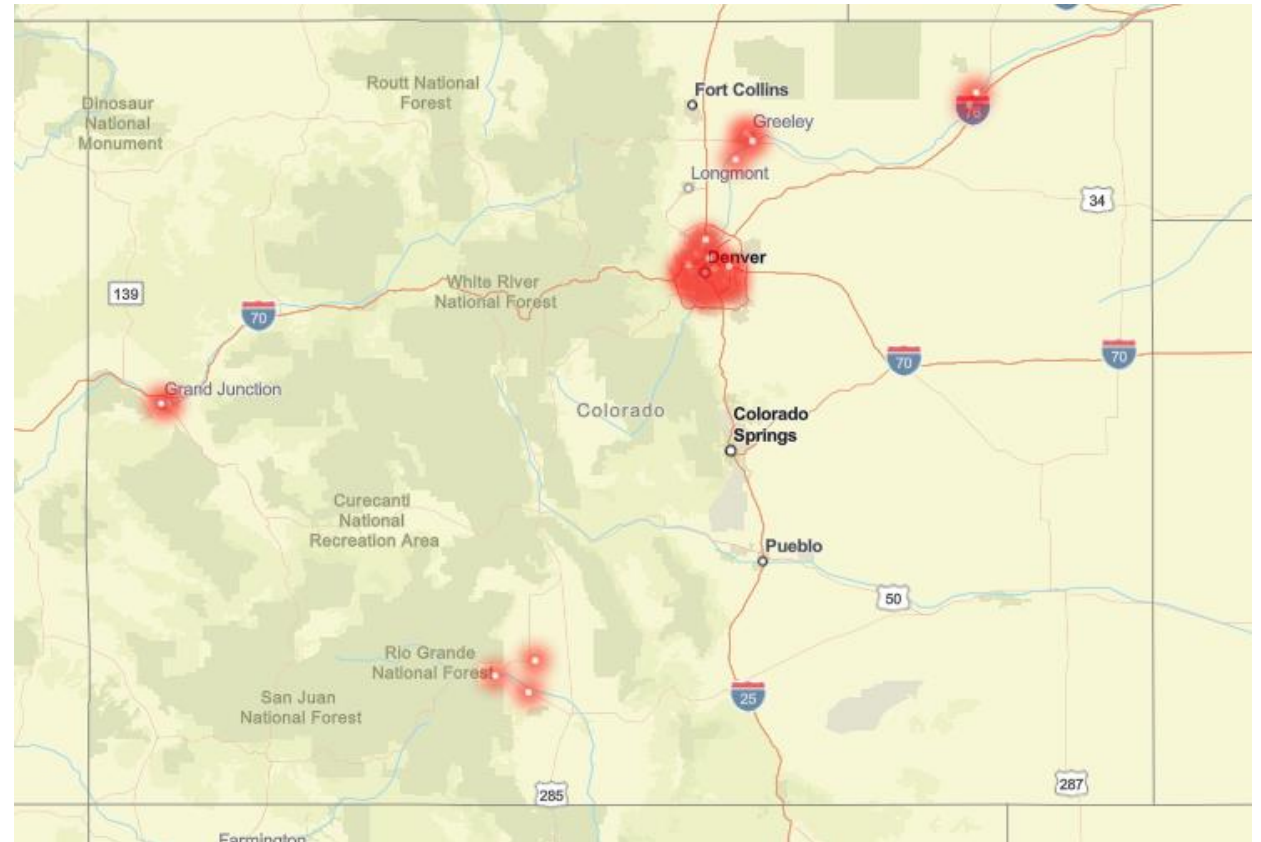
Fleets/Workplaces:

\$2,200 for each eligible Level 2 charging port and up to \$45,000 for each DCFC port.

Community Charging Hubs:

Rebates up to \$2,200 for each eligible Level 2 charging port (four port minimum) and up to \$31,200 for each DCFC port.

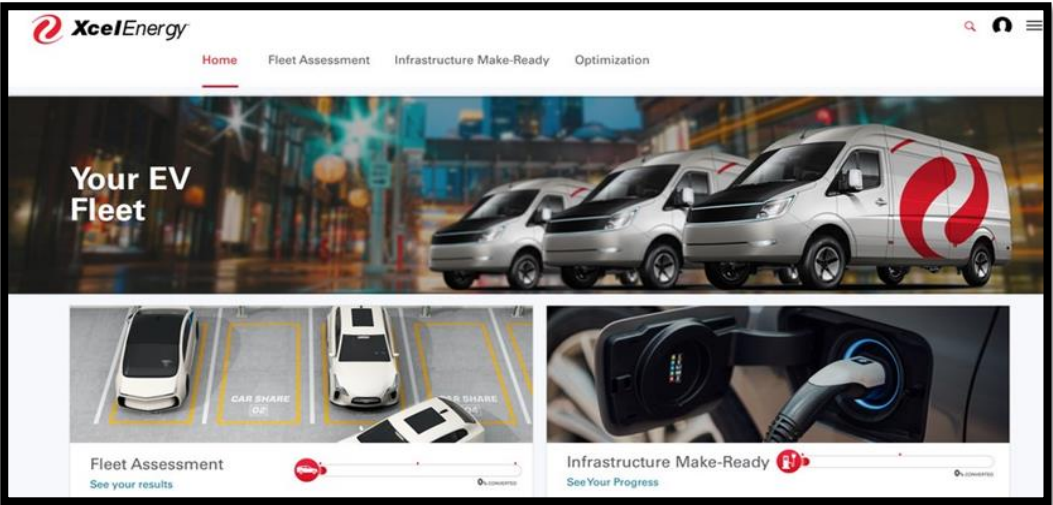
Identified HECs



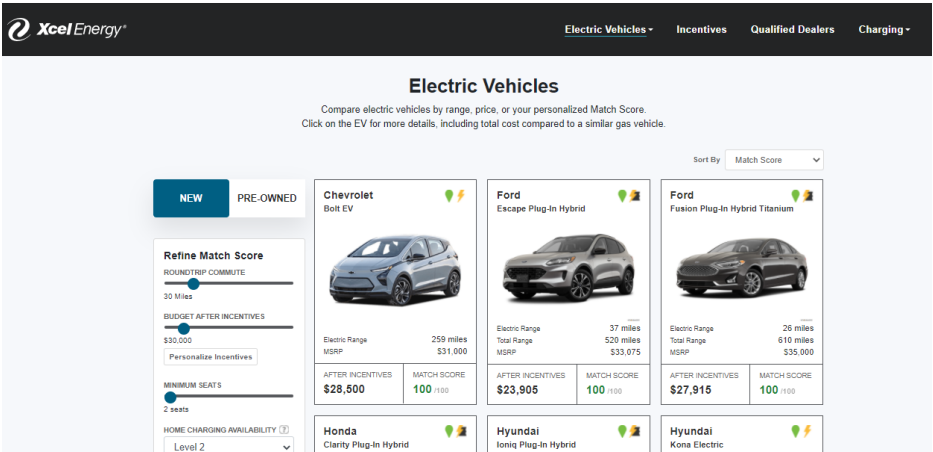
(Based on CDPHE and EPA Data)

Advisory Services

Fleet Planning

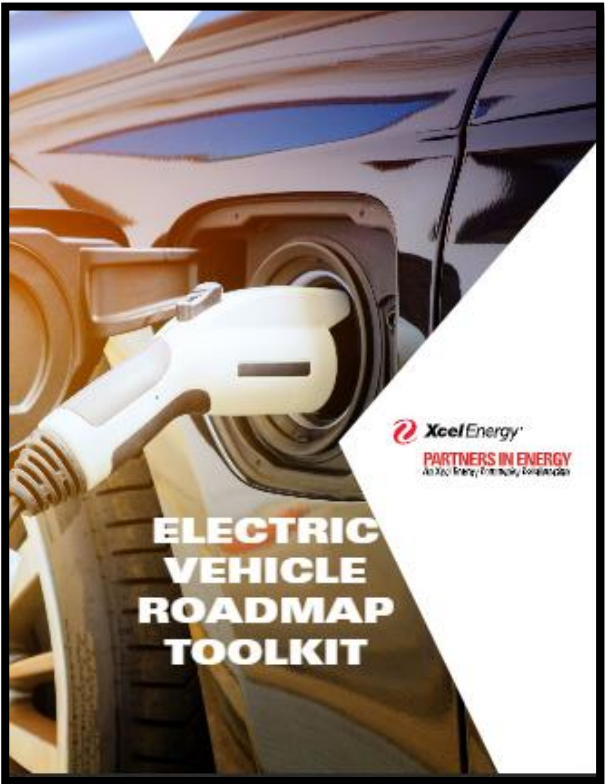


Residential / Light Duty



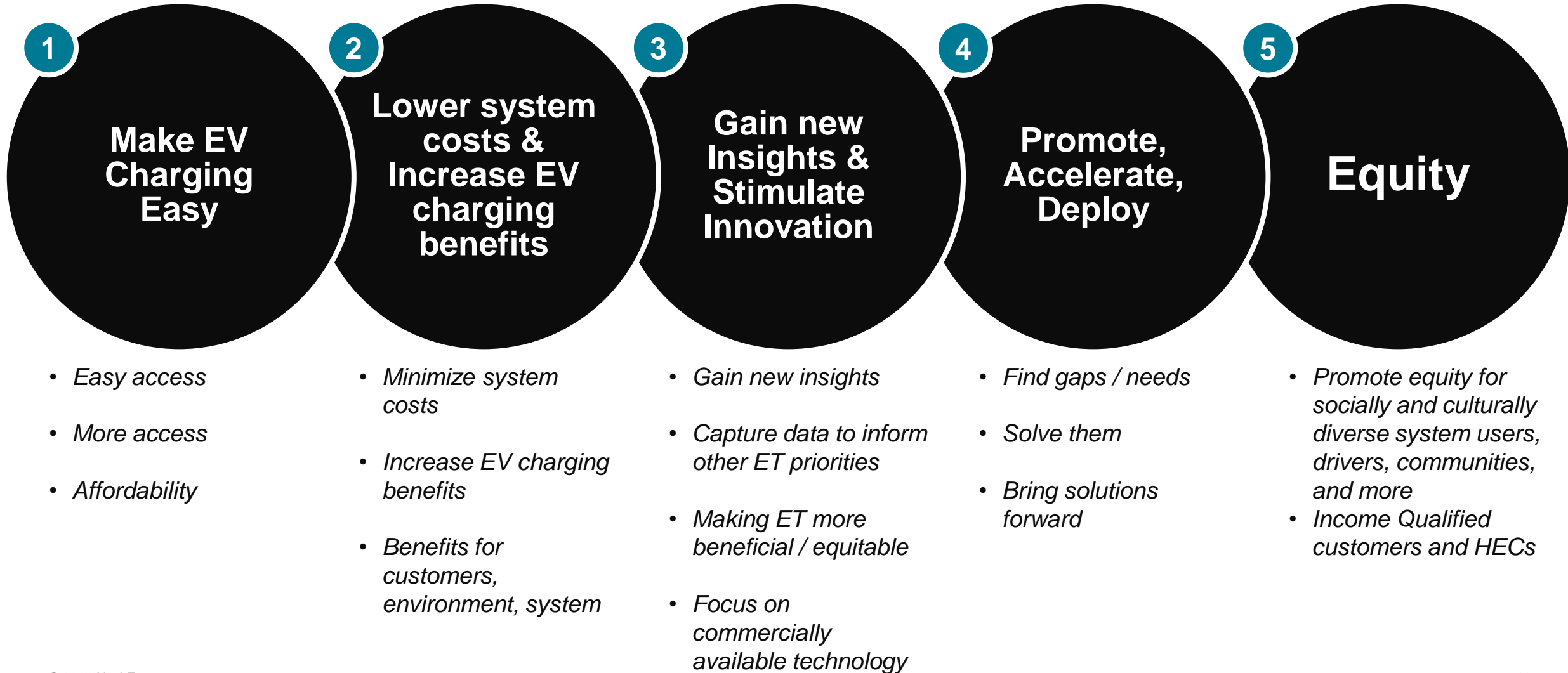
Dealership Network

Community Planning



PRI Background

Partnerships, Research, Innovation



PRI Projects

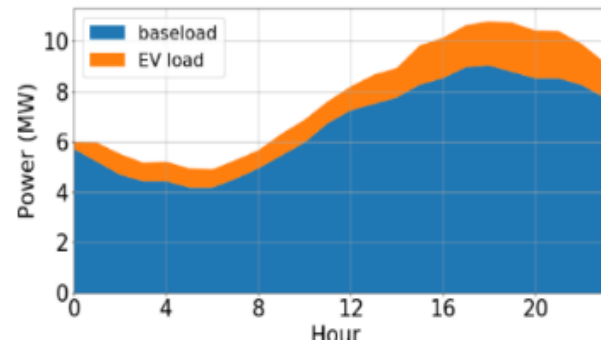
1. Municipal Refuse / Waste Fleet Electrification



2. Electric Car Share



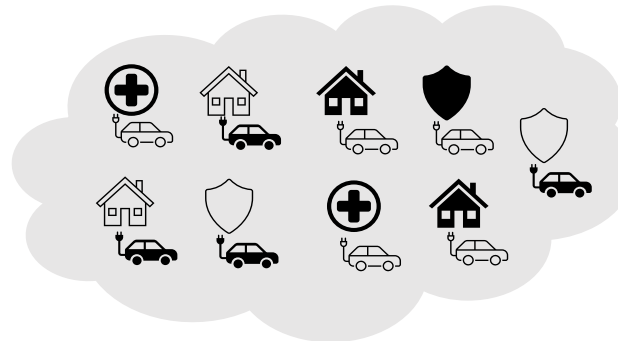
3. Residential Resilience and Managed Charging



4. Paratransit Electrification



5. V2X and Resilience



Preliminary Results (2020 annual emissions reductions)

October 2021 Xcel Energy filed its first Colorado TEP Semi-Annual Report. In 2021, we estimate 37,788 Light Duty EVs in Colorado service territory.*

- The Company estimates that for light duty vehicles, each vehicle charging in its service territory results in a savings of 2 tons of CO₂ per vehicle, or 48 percent, based on an emissions rate of 4.2 tons for each internal combustion engine light duty vehicle and a rate of 2.2 tons for a light duty EV charged on the Company's system, using 2020 average emissions intensity data.
 - **75,576 tons of CO₂ reduction**
- The Company estimates that each light duty vehicle charging in its service territory results in a savings of 3.1 pounds per mile per vehicle, or about 64 percent NO_x reduction per vehicle, based on an emissions rate of 4.8 pounds per mile¹³ for each internal combustion engine light duty vehicle and a rate of 1.7 pounds per mile for a light duty EV charged on the Company's system, using 2020 average emissions intensity data.
 - **117,143 pounds of NO_x reduction**

THANK YOU

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