



Transportation Electrification

June 2020

Xcel Energy serves more than half of Colorado's LDV's

Four
Operating Companies

Eight
States

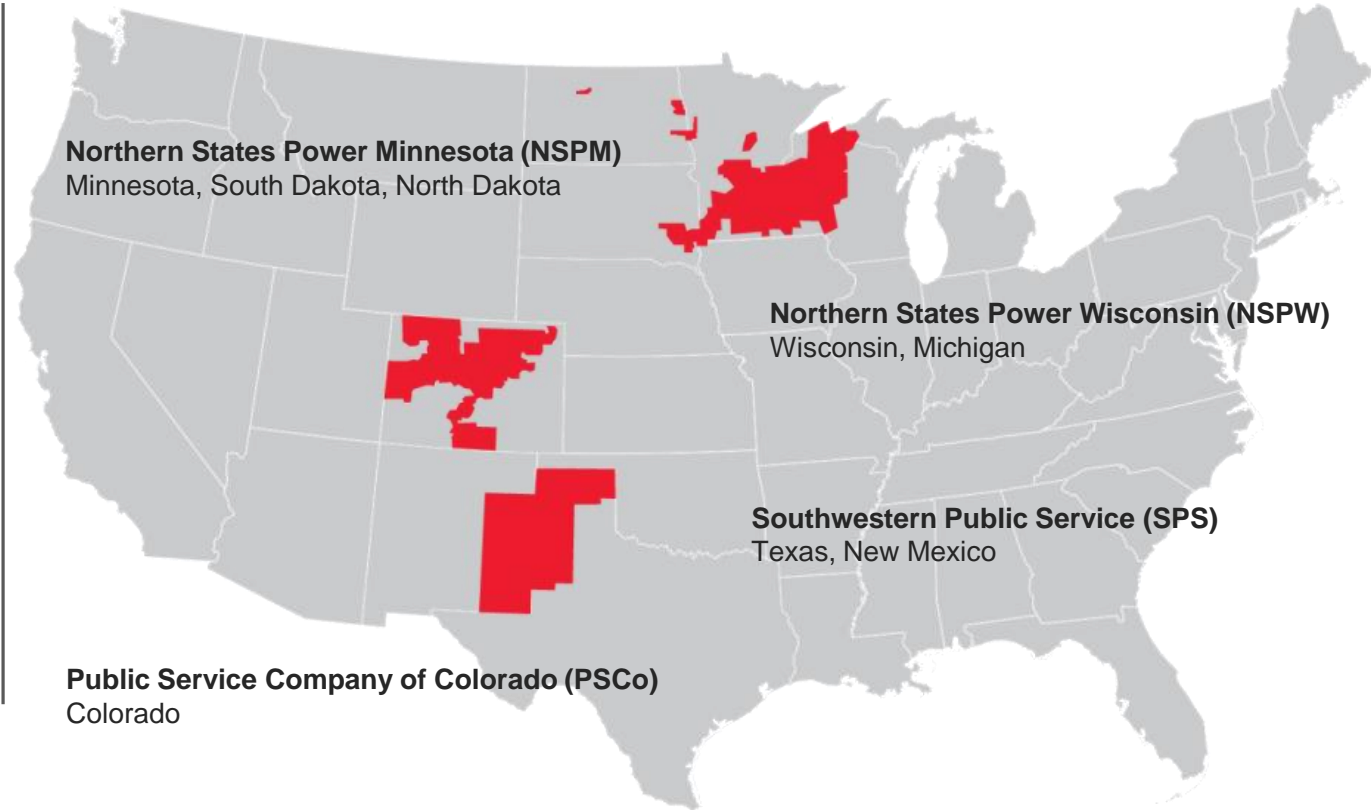
3.6 Million
Electric Customers

2.0 Million
Natural Gas Customers

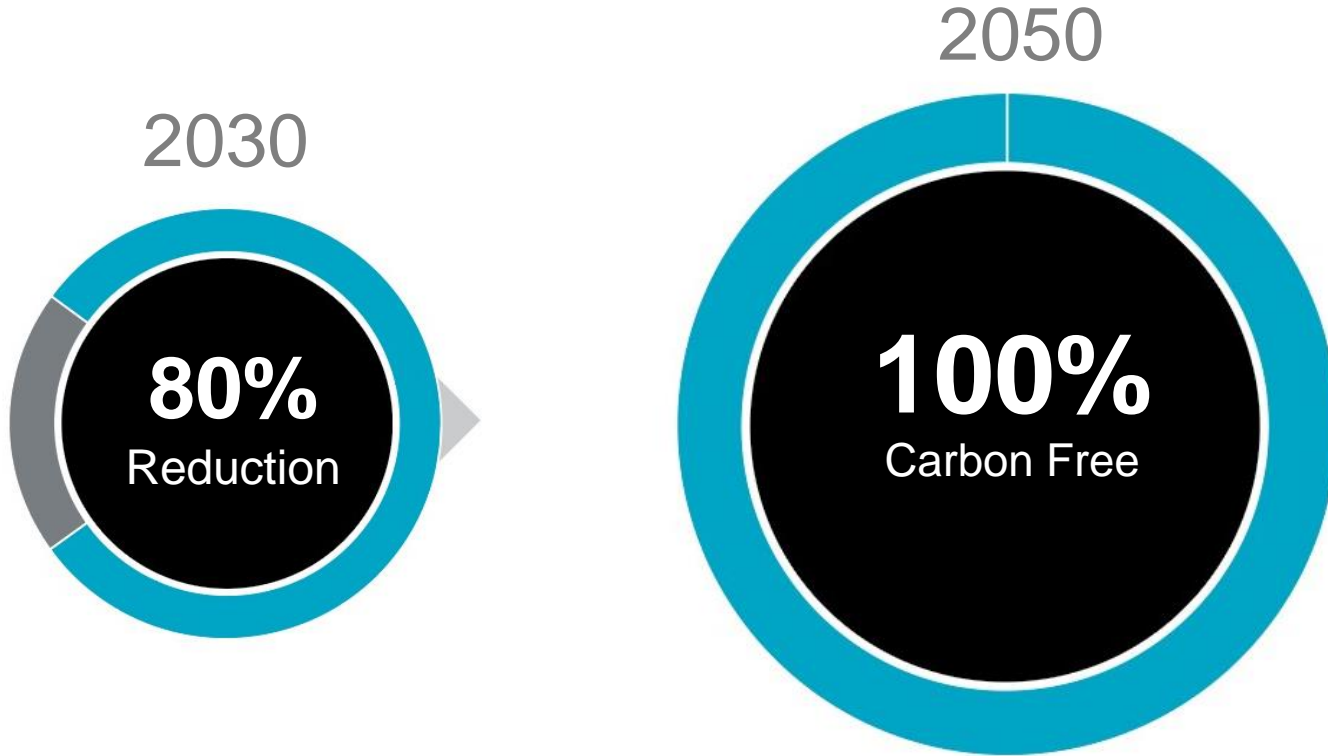
\$30 Billion
2019 Est. Rate Base

19 GW
Owned Gen. Capacity

11,000+
Employees



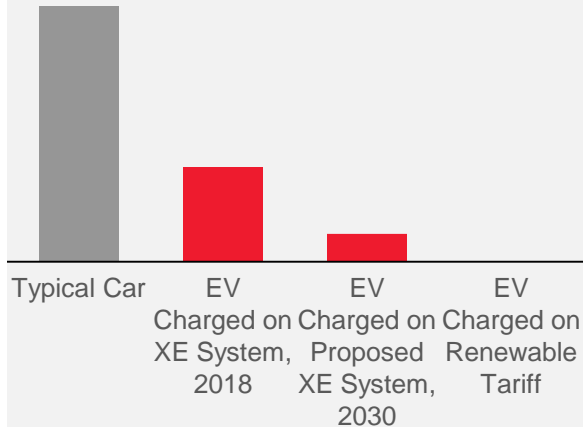
Affordable, Carbon-Free Energy for Transportation



Strong alignment of interests and capabilities

Significant emissions reductions

Tons of CO₂ per Year



Customer barriers we can address

Low consumer awareness

High upfront costs of charging infrastructure

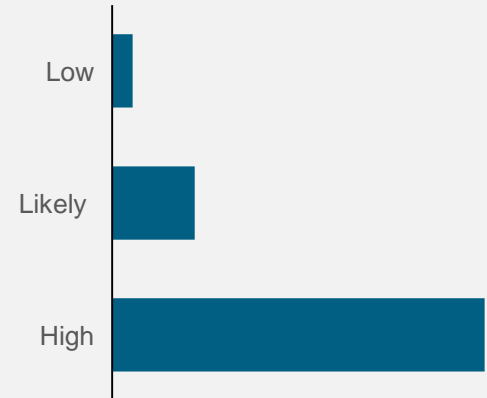
Inability to access charging

Long charging times

Insufficient incentive to charge when best for the grid

Downward pressure on rates

Share of Load by 2030 by EV Adoption Scenario



Xcel Energy proposal before Colorado regulators

Residential	Multi-Unit Dwellings	Commercial	Advisory Services	Research, Innovation, Partnership
Home Wiring Rebate Home Charging Service Early Adopter Rebate	Supply Infrastructure Charging Services New Construction Rebate	Supply Infrastructure Charging Service Community Chrg. Hubs Limited Own/Operate	Residential Fleets Community	Distribution Impacts Ride Sharing School Buses Batteries w/ Fast Charging
<p align="center">Low-Income Customer Programs: Home and Multi-Unit Rebates, Commercial Charging, Community Charging Hubs, Advisory \$16M across portfolios</p>				
<p align="center">Ports: 16,650</p> <p align="center">Cost: \$19M</p>	<p align="center">Ports: 1,185</p> <p align="center">Cost: \$8M</p>	<p align="center">Ports: 2,115</p> <p align="center">Cost: \$48M</p>	<p align="center">Cost: \$13M</p>	<p align="center">Cost: \$12M</p>
<p align="center">Evaluation & Engagement Cost: \$1.5M</p>				

Significant benefits for drivers, the environment, and all utility customers

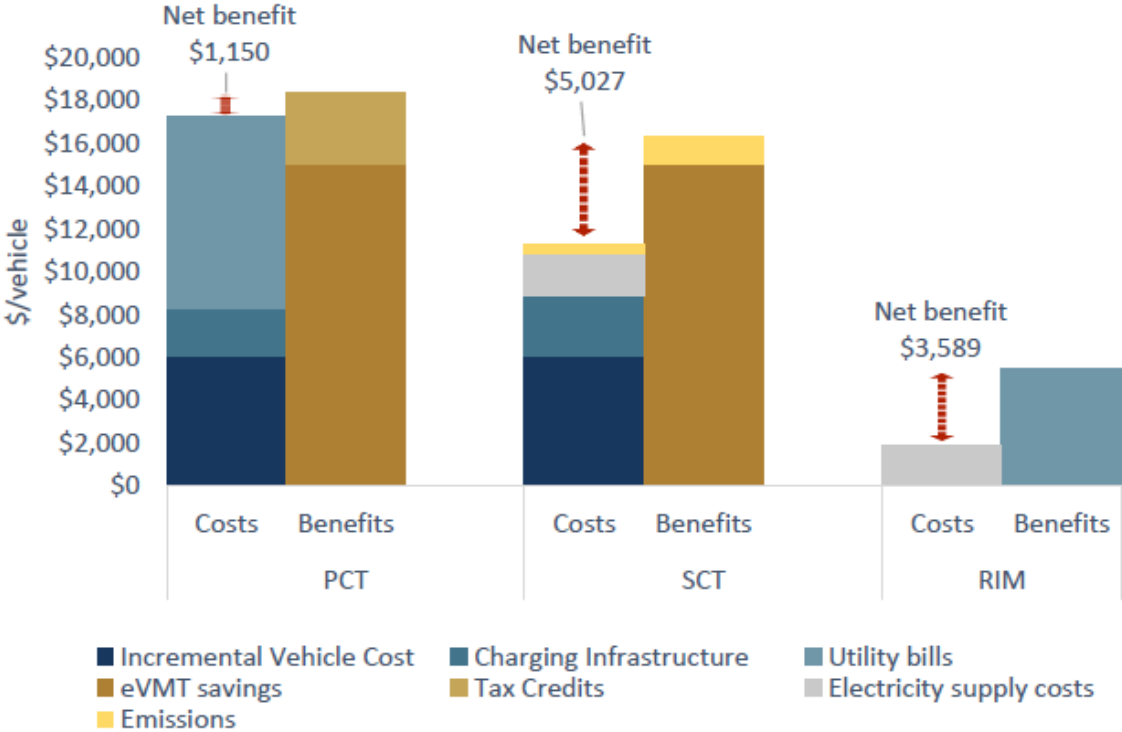


Figure 8. Costs and Benefits of Personal LDV Adoption – Base Case

Benefit-Cost Analysis of Transportation Electrification in the Xcel Energy Colorado Service Territory May 2020

Energy and Environmental Economics, Inc.