

➤ **Summary of 60-Day Notice:** Charging Perks

The following 60-Day Notice summarizes the Company's intention to launch Charging Perks, which is an electric vehicle ("EV") smart charging pilot.

The Company is including with this Notice:

- Deemed Savings worksheets;
- Technical Assumptions worksheets
- Cost-benefit analyses; and
- Product write-up.

A copy of this notice is available on our website at:

https://www.xcelenergy.com/company/rates_and_regulations/filings/colorado_demand-side_management

Charging Perks is an EV smart charging pilot. The Colorado Public Utility Commission EV working group report defined smart charging as, "any program that manages electric vehicle charging to promote grid stability or more efficient resource usage." The working group highlighted the importance of smart charging as the state's utilities look for ways to efficiently integrate and harness this new and potentially large electric demand.¹ In recognition of the future importance of smart charging, the Company committed to implementing and evaluating a smart charging pilot in the 2019/2020 Demand Side Management Plan that was approved in Proceeding No. 18A-0606EG. This Notice details the Company's intention with a specific pilot proposal.

The Charging Perks Pilot will test smart charging technology with residential customers that charge primarily at home, evaluate customer interest and behavior, and collect and analyze EV charging profiles before and after applying smart charging. There are several different approaches to smart charging being tested throughout the country, and the Company is proposing to partner with BMW, Ford, General Motors, and Honda to test how it can manage charging directly through the vehicle.

The Company plans to collect charging event data without smart charging at the start of the pilot in 2019 and early 2020 to establish a baseline, and will claim no benefits during that time period. After collecting baseline information, the Company will begin performing smart charging. While smart charging, the Company will shift customer charging each day outside of peak hours and into the cheapest cost hours of electricity production or when additional demand is needed to reduce renewable energy curtailments. The data from baseline and smart charging activities will be collected from the vehicle, analyzed, and included in an end of pilot report that will highlight insights from the pilot and discuss the potential of a smart charging program in the future.

¹ Proceeding No. 17I-0692E. Colorado PUC Electric Vehicle Working Group Report. Pages 54 and 59.

Table 1: Summary of Forecasted Impacts: Charging Perks Pilot

	2019		2020	
	<i>As Filed</i>	<i>Revised per 60-day</i>	<i>As Filed</i>	<i>Revised per 60-day</i>
Electric Savings (kWh)	N/A	0	N/A	0
Electric Demand Reduction (kW)	N/A	0	N/A	391
Budget*	N/A	\$30,000	N/A	\$75,000
MTRC Test Ratio	N/A	0.12	N/A	0.25

*Rebates only. While the anticipated expenditure impacts are forecasted, the Company acknowledges that this Notice does not change the filed budget.