Emerging Issues in Utility Regulation: Transportation Electrification Programs

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Summary

"What is the Commission's role in promoting a competitive market for plug-in electrical vehicles?"

Summary

The Commission should recognize that <u>utility</u> <u>procurement of charging hardware and software can</u> <u>promote competition</u> among third-party charging service providers*

Electric Vehicle Figures

In 2010 there were no EVs in U.S. Now there are over 600,000

▶ 400,000 put down deposits for the Tesla Model 3

► The 238-mile range Chevy Bolt will be available nationwide in September

Electric transportation can provide utility customer benefits, but infrastructure is needed

- \$220,000 vehicles x 12 kWh x \$0.10/kWh x 365 days = \$96,360,000/year in low-cost additional utility revenue
- Lack of charging infrastructure is a barrier, but not just infrastructure anywhere:







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Why utility engagement?

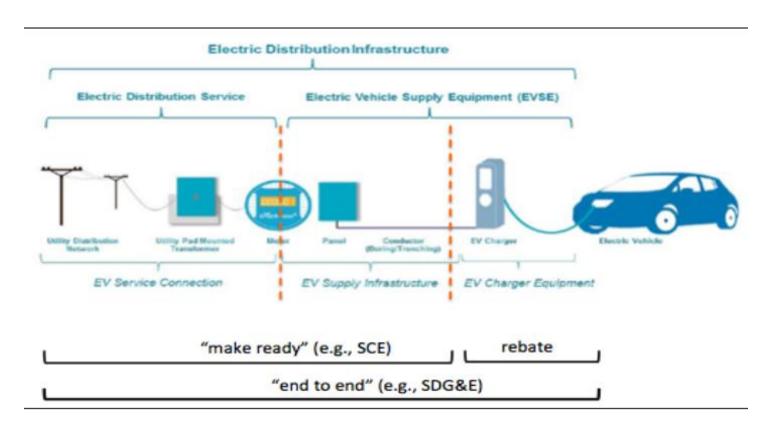
- Wide recognition of need
- Long planning horizons
- Targeting critical market segments
- EV load integration on grid
- Established customer relations and outreach
- ...What does this mean for charging service providers?

How the Commission and utilities can promote competitive charging service markets: Charging Infrastructure

- Utility procures equipment and software from existing market participants
 - Competitive RFP/solicitation process
 - Pre-qualified vendor list for site host choice of equipment

Creates opportunities for private market competition where it did not exist before

Ownership, operations, and maintenance: does it affect competition?



Looking forward

- "The electrification of transportation presents a rare opportunity to achieve gains for all stakeholders affected by electricity regulatory policy. The right set of policies can help achieve the traditional regulatory goals — safe, reliable, and affordable service — while advancing new goals of sustainability, efficiency, and customer choice."
 - ► Illinois Citizens Utility Board, ABCs of EVs, A Guide for Policy Makers and Consumer Advocates