

WHAT TO KNOW ABOUT ELECTRIC VEHICLES

EV Market Growth

- US plug-in electric vehicle sales are projected to be more than 700,000 by 2021
- Energy consumption from plug-in electric vehicles could be as high as 5,276 GWh by 2021, and 13,000 GWh by 2025

Why Utilities Should Care About EVs

- Load growth opportunity, yet customer EV charging can add to your peak demand, or stress distribution and transmission infrastructure
- Lower vehicle operating and maintenance costs (can lead to savings for customers or a utility with an electric fleet)
- EVs have no tailpipe emissions, lowering greenhouse gas emissions

Challenges to EV Adoption

- Cost
- Knowledge and awareness
- Charging infrastructure availability and awareness
- Limited model availability

What Utilities Can Do

- Deploy charging infrastructure
- Educate employees, customers, and auto dealers
- Electrify fleets
- Evaluate rate design and payment options
- Pilot vehicle-grid integration technologies
- Provide incentives
- Project EV adoption and grid impact for the community



Learn more about EVs at PublicPower.org/Topic/Electric-Vehicles or contact the American Public Power Association at Policy@PublicPower.org.