



America's Electric Co-ops Promote EVs

Many of America's 900 electric co-ops offer:

- Rebates
- Discounts through dealers
- Rate options
- Test driving
- Rebates
- Free charging
- Commercial use support
- Installing charging stations throughout service territory or state



Load Impact

Potential Impacts of EVs on Electric Cooperatives

	10% EV Penetration	20% EV Penetration	30% EV Penetration
Number of EVs	3,592,298	7,184,597	10,776,895
Change in Residential Electric Co-op MWh Sales	6.5%	13.0%	19.6%
Change in Total Electric Co-op MWh Sales	3.5%	6.9%	10.4%
PJM Charging Assumption Year 2035 Incremental Peak Load (MW) (5% On-Pk Charging, 100% w/ Level 2 Chargers)	1,383 MW	2,766 MW	4,149 MW



Goal: Managed Charging

Benefits for co-ops:

- Saving memberconsumers money
- Ability to manage grid and peak demand





Vehicle-to-Grid

Opportunities & Key Considerations







Increase Grid Flexibility

• How

• Incorporate technologies and resources to make the grid more flexible and therefore efficient

• Why

• High peaks in demand; flat or declining energy



