

A nighttime photograph of a city street with light trails from cars and buildings in the background.

**“Advancing Vehicle-to-Grid Technology Adoption:
Policy Recommendations for Improved Energy
Security and Resilience”**

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V2G Policy Accomplishments

I. V2G Policies in the Bipartisan Infrastructure Law

- Surface Transportation Block Grant Program (Section 11109)
- Charging and Fueling Infrastructure Grants (Section 11401)
- Smart Grid Investment Grants (Section 40107)
- Codes and Standards Study for Use of Energy Storage (Section 40111)
- National Electric Vehicle Formula Program
- Joint Office of Energy and Transportation

II. V2G Policy in Pending Federal Legislation

- Alternative Fuel and Refueling Property (Section 30C) Tax Credit

The Path Forward: Summary of V2G Policy Recommendations

Federal:

- Extend and expand the “Alternative Fuel Refueling Property” (Section 30C) tax credit to cover V2G capability.
- Incorporate V2G into emergency planning, preparedness, and response efforts; prioritize deployment of bidirectional charging equipment at critical facilities.
- Conduct research & testing to ascertain the potential impacts of bidirectional charging on battery degradation and warranties.
- Facilitate development of uniform national V2G-related technical standards.

Summary of V2G Policy Recommendations (cont'd.)

Federal (cont'd.):

- Convene a cross-disciplinary group to advance V2G policies and deployment.
- Develop a national V2G Roadmap.
- Help “future-proof” policies to incorporate V2G “make-ready” capabilities into infrastructure planning processes.
- Update the treatment of V2G-capable EVs as “mobile energy storage units” in policies and regulations in terms of their provision of grid resources using lessons learned from stationary storage and other DERs.

Summary of V2G Policy Recommendations (cont'd.)

State and Local Governments:

- Incentivize V2G deployment.
- Streamline interconnection standards.
- Design/apply appropriate rate structures: compensate V2G-enabled grid resources.
- Conduct demonstrations; share lessons learned and best practices, and scale V2G technology.

Summary of V2G Policy Recommendations (cont'd.)

Regional Transmission Organizations (RTOs):

- Develop/implement roadmaps that incorporate EV and EVSE V2G capabilities more fully.
- Develop/revise RTO requirements to facilitate V2G deployment, including for grid services in wholesale markets.
- Conduct V2G grid impact studies; disseminate results broadly.
- Conduct inclusive, transparent, and cross-sectoral V2G stakeholder processes.

Thank you!

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