

THE COUNCIL OF STATE GOVERNMENTS
RESOLUTION IN SUPPORT OF BUILDING A ROBUST
INFRASTRUCTURE FOR GRID-ENABLED VEHICLES

Resolution Summary

Vehicles consume nearly three-quarters of the petroleum used in the U.S. and account for one-third of the country's greenhouse-gas emissions. Studies show that vehicle miles fueled by electricity emit less carbon dioxide than vehicle miles powered by gasoline, and research indicates that transitioning the majority of the U.S. light-duty vehicle fleet to electric vehicles (EVs) could lead to hundreds of thousands of new jobs. Studies also show that widespread use of EV batteries could offer electricity storage potential that could help accelerate the incorporation of intermittent renewables into the grid, which could enable states to meet their renewable-energy goals. Sustained public policy, however, is needed to help ensure the smooth rollout of EV charging stations and other infrastructure that will enable the public to take advantage of the benefits that could be derived from broad penetration of EVs in the marketplace.

Additional Resources

- [National Renewable Energy Laboratory: Hybrid Electric and Fuel Cell Vehicles](#)
- [U.S. Department of Energy: Vehicle Technologies Program](#)

CSG Management Directives

- **Management Directive #1:** CSG supports efforts to advance the development of EV infrastructure in the near-term, and to foster longer-term benefits that could be derived from the use of grid-enabled technology.
- **Management Directive #2:** CSG supports the unanimous decision of the Executive Committee of The Council of State Governments/Eastern Regional Conference (CSG/ERC), on August 18, 2010, to authorize CSG/ERC Energy & Environment Committee staff to explore current efforts to advance EVs and V2G technology, and to convene one or more meetings with policymakers and stakeholders with the goal of making information about best practices available to all states.

- **Management Directive #3:** CSG will send this resolution to the Secretary of Energy, Steven Chu.

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WHEREAS, The Council of State Governments (CSG) is committed to supporting policies that reduce dependence on foreign sources of oil, lower air pollution, and foster economic growth;

WHEREAS, in recent years, volatile oil prices have posed severe economic hardships for U.S. households and industry;

WHEREAS, vehicles consume nearly three-quarters of the petroleum used in the U.S. and account for one-third of the country's greenhouse-gas emissions;

WHEREAS, studies show that vehicle miles fueled by electricity emit less carbon dioxide than vehicle miles powered by gasoline;

WHEREAS, research indicates that transitioning the majority of the U.S. light-duty vehicle fleet to electric vehicles (EVs) could lead to hundreds of thousands of new jobs;

WHEREAS, more than fifteen auto manufacturers plan to introduce electric vehicle (EV) models within the next three years;

WHEREAS, the American Recovery and Reinvestment Act is funneling \$2.4 billion into the development of electric vehicle battery technology, with the goal of producing thousands of manufacturing jobs and improving the nation's energy security;

WHEREAS, studies show that widespread use of EV batteries could offer electricity storage potential that could help accelerate the incorporation of intermittent renewables into the grid, which could enable states to meet their renewable-energy goals;

WHEREAS, current pilot projects suggest that in the longer-term, EVs could be tapped to provide stored electricity back to the power system when requested by grid operators, via the use of vehicle-to-grid (V2G) technology, and that such ancillary services could offer financial benefits to grid operators and vehicle owners;

WHEREAS, Puerto Rico a member of The Council of State Government's Eastern Regional Conference (CSG/ERC), has already announced plans to turn one of its island-municipalities into an EV-dominant or EV-only community, using V2G technology;

WHEREAS, many stakeholders agree that sustained public policy is needed to help ensure the smooth rollout of EV charging stations and other infrastructure that will enable the public to take advantage of the short-term and longer-term benefits that could be derived from broad penetration of EVs in the marketplace; and

WHEREAS, CSG could make an important contribution to the dialogue by supporting the efforts of CSG/ERC to convene stakeholders who must collaborate with other regulatory, legislative and/or private-sector entities to take advantage of the full capabilities offered by EVs and V2G technology, and implement them on a broad scale.

NOW, THEREFORE BE IT RESOLVED, that CSG supports efforts to advance the development of EV infrastructure in the near-term, and to foster longer-term benefits that could be derived from the use of grid-enabled technology;

BE IT FURTHER RESOLVED, that CSG supports the work of CSG/ERC and the CSG/ERC Energy & Environment Committee to explore current efforts to advance EVs and V2G technology, and to convene one or more meetings with policymakers and stakeholders with the goal of making information about best practices available to all states; and

BE IT FURTHER RESOLVED, that CSG staff send this resolution to the Secretary of Energy, Steven Chu.

Adopted by the Governing Board this 6th Day of December, 2010 at CSG's 2010 National Conference in Providence, Rhode Island.