

Virtual State Policy Summit: Electric Vehicle Grid Integration
Agenda
September 16-18, 2020

The National Governors Association (NGA) is hosting a virtual summit to explore state policy and regulatory strategies to integrate higher volumes of electric vehicles (EVs) and charging infrastructure into the power grid. Many governors have implemented policies to electrify transportation including financial incentives and electric vehicle targets. Meanwhile, options for consumers are increasing while costs continue to decline. Careful planning and policy design can improve how EVs are integrated into the grid while effectively managing energy loads and maintaining grid performance, including reliability, affordability, and resilience. This three-day summit will allow for governors' policy staff to hear from experts and one another on the latest solutions, engage in peer-to-peer sharing, and have opportunities to discuss regional challenges and strategies in breakouts.

Wednesday • September 16, 2020 12:00 PM – 2:30 PM (all times ET)

Pre-meeting: Zoom platform will open 15 minutes prior to meeting for participants to log in.

12:00 – 12:45 PM Welcome and Introductions

NGA will frame the discussion and activities for the meeting. A participant from each state will be asked to introduce themselves and share one main objective or challenge they are facing related to transportation electrification. Additionally, NGA will lead a brief, moderated discussion to allow for advisors to share information on current EV practices in their state.

12:45 – 1:15 PM Keynote: EV Grid Integration – Identifying Market Trends and Stakeholders

States are in initial stages for transitioning to a system where electric vehicles are integrated with the grid. Why is it important to start the planning process when vehicle impacts remain low? In this session, a national expert will highlight state policies to prepare for EVs, how they are engaging utilities, and the potential interactions between electrification and grid performance.

Speaker:

- Stacy Noblet, Senior Transportation Director, ICF International

1:15 – 2:30 PM Virtual Regional Breakout Discussions

Attendees will participate in regional breakout discussions to explore transportation challenges and effective state policies. Following these breakouts, each group will report out on their learnings and innovative solutions.

Thursday • September 17, 2020 12:00 PM – 3:00 PM (all times ET)

Pre-meeting: Zoom platform will open 15 minutes prior to meeting for participants to log-in.

12:00-12:45 PM

Grid Responsive Charging Networks

Electric vehicle charging may alter energy demand as technology adoption increase. Currently, EVs represent around two percent of the national vehicle fleet and have limited impact on energy systems. New state goals and increased EV adoption may lead to exacerbated energy peaks in some areas. Careful integration and deliberate regulatory strategies may be needed to avoid this. To avoid excess strain on the electric grid (and reduce consumer demand costs), utilities are turning to strategies such as time-of-use (TOU) ratemaking and smart charging.

Speakers:

- Erika Myers, Principal, Transportation Electrification, Smart Electric Power Alliance
- Chairman Jason Stanek, Maryland Public Service Commission

Moderator: Matt Rogotzke, Policy Analyst, National Governors Association

12:45-1:30 PM

Vehicles as Grid Assets

As transportation continues to electrify and charging networks become more responsive to grid needs, states, utilities, and the private sector are exploring how charging networks and vehicle batteries can provide services back to the grid. Known as vehicle-to-grid technologies (V2G), such networks offer promising benefits for transportation electrification such as improved resilience. However, technological and policy challenges remain. Speakers in this session will discuss the latest advancements with the technology, address persisting challenges, and explore policy solutions to advance V2G.

Speakers:

- Sara Parkison, Senior Policy Analyst, University of Delaware
- Commissioner Cliff Rechtschaffen, California Public Utilities Commission

Moderator: Dan Lauf, Program Director, National Governors Association

1:30-1:45 PM

Break

1:45-2:30 PM

Building Charging Networks

Adequate and strategically placed charging infrastructure can reduce range anxiety and ensure equitable availability, without adding additional strain to the grid. Additionally, chargers must be placed in convenient public areas such as grocery stores, workplaces, or parking garages, and in areas where the grid can accommodate electric vehicle load. Deciding where to locate chargers must incorporate these concerns, as well as identifying locations with EV-ready electrical infrastructure.

Speakers:

Grace Van Horn, Energy and Environmental Policy Consultant, M.J. Bradley & Associates

David Bobzien, Director, Nevada Governor's Office of Energy

Moderator: Jessica Rackley, Program Director, National Governors Association

2:30-3:00 PM

Technology Showcase: Electric Vehicle Innovation at the National Renewable Energy Laboratory

The National Renewable Energy Laboratory conducts cutting edge research into vehicle electrification, including solutions for grid integration. A researcher will showcase the latest charging technologies to accommodate the growing electric vehicle load on the grid.

Presenter:

- Andrew Meintz, Senior Researcher, National Renewable Energy Laboratory

Friday • September 18: 2020 12:00 PM – 3:00 PM (all times ET)

Pre-meeting: Zoom platform will open 15 minutes prior to meeting for participants to log-in.

12:00-12:45 PM

Regulatory Considerations to Incorporate Electrified Transportation

States must weigh many public policy and regulatory interests as new EV challenges arise. Presenters in this session will explore open questions such as whether public charging stations should be regulated as a utility, whether regulated utilities should own charging stations, rate design, and utility incentives to align investments with state policy goals. These cases weigh affordability, consumer choice, and reliability goals and each state may take unique approaches to address those various concerns.

Speakers:

- David Farnsworth, Principal, Regulatory Assistance Project
- David Springe, Executive Director, National Association of State Utility Consumer Advocates
- Moderator: Dan Lauf, Program Director, National Governors Association

12:45 – 1:30 PM

Partnering with Utilities to Integrate EVs

Utilities are at the forefront of energy system planning and electric vehicle integration. Working with states, utilities are implementing innovative technology pilots, testing new rate designs, providing incentives for customers to install vehicle chargers, and developing robust energy plans to maintain performance through this transition. Speakers in this session will highlight innovative transportation electrification pilots and programs and how states and utilities are working to deploy those effectively.

Speakers:

- Dan Weekley, Vice President, Energy Innovation Policy & Implementation, Dominion Energy
- Annie Schneider, Senior Transportation Program Specialist, Utah Governor's Office of Energy Development

Moderator: Matt Rogotzke, Policy Analyst, National Governors Association

1:30 – 2:00 PM

Keynote: Global Trends and eMobility Innovation

Electric vehicles offer significant grid benefits, particularly when looking beyond the light-duty market. The private sector is developing new products to support eMobility and provide smart load management. A presenter from Siemens will highlight global market trends related to vehicle electrification with an emphasis on medium- and heavy-duty vehicles, the importance of interoperability standards, and how EVs may spur grid modernization.

Speaker:

- John DeBoer, eMobility and Future Grid Business Unit, Siemens

2:00 – 2:45 PM

Regional Breakouts

Participants will use the closing breakouts to share reflections on the past few days' sessions. Participants will be asked to share lessons learned, remaining challenges, and new ideas they are considering given the summit's discussions.

2:45 – 3:00 PM

Report Outs and Closing Remarks