



V2G: Are we there yet? The state of enabling technology, standards, policy and processes



The 6th edition of the **V2G Business, Policy & Technology Forum**, October 21-23, 2025 in Detroit brings together top industry players, working groups, utility professionals and others who are focused on the successful development and implementation of vehicle-to-grid in the United States.

Building on the success of previous editions, the Forum offers a neutral venue in which different V2G stakeholders can come together to work on accelerating V2G standardization and adoption in North America.

The goal is to examine obstacles and challenges to effectively achieving the potential of V2G, and to identify appropriate solutions and implementation success strategies for grid operators and other stakeholders across market verticals.

The Fall 2025 edition will take a special look at the state of enabling technologies for V2G, including standards progress, interoperability issues, residential and fleet charging, integration with V1G infrastructure, and more. In addition to in-depth presentations and panel sessions, the Forum will include breakout roundtable discussion in which attendees can interact in small groups to examine key topics.

If V2G is important to the future of your organization, you are encouraged to take part in these discussions.

"Great! Didn't think I could learn much more on the topic but the Forum was very enlightening."

- Joshua McDonald, Consulting Engineer, Southern California Edison

"Excellent conference. Gathering of so many diverse experts provided a clearer statement of problems and gaps but above all focused on solutions. Great networking!"

- Bjoern Christensen, Managing Director, Next-Dimension Advisors



Organized by:



V2G Demos



The Forum in October will include an exhibition area in which organizations are encouraged to showcase technology advancements, device and equipment demonstrations related to standardization of V2G technologies. Exhibitors will receive adequate floor space to accommodate equipment and displays. ACM's facilities include testing bays with power and garage doors to enable bringing vehicles into the demonstration areas.

The conference will be held at the [American Center for Mobility \(ACM\)](#) in Detroit, which features extensive infrastructure for equipment demonstrations and exhibits, supported by a 90-MW DTE

Energy substation on site and both six 208 V and six 480 V outlets for charger systems. There will also be a live interconnection with the DTE grid, to enable operational V2G systems in real time.

Exhibitors will have the opportunity to showcase their V2G technology leadership and innovations to key industry executives attending the 3-day Forum. As an official EV interoperability demonstration lab site supported by the U.S. DOE, ACM has the goal of driving grid-integrated EV charging and widespread deployment of interoperable solutions in North America.

Research and interoperability testing of V2G technology is on ACM's roadmap and this event is an opportunity to accelerate the realization of that goal for ACM, further accelerating the development and adoption of standardized, scalable V2G technology. Participating in this exhibit at the V2G Forum is a unique opportunity to participate in this sector-leading ACM showcase and their associated initiatives.

Any company ready to demonstrate standards-based V2G technology is invited to submit an expression of interest to dcoran@v2gforum.com

Technologies appropriate for showcasing within the demos include:

- Bidirectional charger advancements meeting grid interconnection requirements (US, EU or other grid codes)
- DERMS with V2G capabilities based on standardized communications and functional technologies
- Simulation and emulation for V2G standards-based Use Cases
- V2G test systems and tools supporting IEEE 2030.5, OCPP 2.1, J3072, IEEE 1547, ISO 15118-20 Amend 1, ISO 15118-2 Edition 2, CHAdeMO 2.0, 3.0 and ChaoJi, UL 1741 SC testing, simulations and analysis
- V2G-DC and V2G-AC CA Rule 21 interconnection process advancements
- CNO/CPO systems supporting standardized V2G
- V2G cybersecurity device and end-end standards demonstrations
- Any demonstrations should include certified, pre-certified or prototype implementations of the existing and emerging standards for V2G
- Standards harmonization and international coordination for V2G

Past Participants Include

ABB E-Mobility	Ennovara	Nuvve
AIO Electric	Enphase Energy	Pacific Gas and Electric
Alliance for Automotive Innovation	Energy	Pacific Northwest National Laboratory
American Center for Mobility	EPC Power	Paratelic Ventures
Autel Energy	ev.energy	Peninsula Clean Energy
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		Xcel Energy

Sample Attendee Feedback



"Very informative. The ability to talk to experts in the field as well as meet potential partners was the most valuable aspect"

- *Shannon Anderson, Senior Planner, EV Infrastructure and V2X Strategy, Nissan North America*

"Everything was well organized, ran smoothly, and was on time. Lots of great discussion"

- *Sammy Nabahani, Solutions Engineer, WeaveGrid*

"Really glad I attended -- good connections and ideas"

- *Greggory Kresge, Senior Manager, Utility Engagement and Transportation Electrification, World Resources Institute*



"Excellent. The wealth of experience present was terrific, breakout sessions helpful, and networking was essential"

- *Brian Gregory, Compliance Leader, Emporia Energy*

"A great conference to hear from industry-leading contributors and the advancement and needs of the V2G community. Additionally, a good networking space."

- *Nathan Wang, Product UL Solutions*

"Great to see people in person who are highly involved in V2G"

- *Yukihiro Hatagishi, EV Electronics Lead / V2X OBC, Diamond Electric Mfg. Corporation*

"Great attendance and mix of attendees"

- *Russel Vare, Auto OEM Partnerships, Kaluza*

"Excellent, outstanding! Relevant, focused and high-value"

- *Ted Witham, PE, Eaton Corporation*



Agenda

Note: Subject to change. Additional speaker and session information TBA.

Tuesday, October 21, 2025

8:00 am - 9:00 am

Registration and Welcome Continental Breakfast

9:00 am – 12:30 pm

Workshop 1: V2G AC Technologies and Standards

AC-based Vehicle-to-Grid (V2G) standards face several challenges, including fragmented and evolving communication protocols (e.g., ISO 15118, IEEE 2030.5, IEC 61851) that limit interoperability and create reliance on proprietary extensions, incomplete definitions for bidirectional AC power flow and energy settlement, and inconsistent grid compliance requirements (grid codes) for power quality, safety, and anti-islanding. Cybersecurity is unevenly addressed, with many chargers lacking robust authentication, encryption, and update mechanisms. Regulatory frameworks vary widely by region, with no globally unified AC V2G standard, complicating cross-border compatibility. Utilities also face integration hurdles due to legacy grid codes and DER aggregation standards not tailored to mobile storage, while the absence of standardized business models and transaction formats slows market adoption. This workshop explores these standardization issues, providing an understanding of the standards landscape related to V2G AC, and current industry efforts to address these challenges.

9:00 – 9:15 am

Opening Remarks & Objectives

- Workshop goals and expected outcomes
- Brief overview of V2G market trends and relevance of AC solutions

9:15 – 9:45 am

North American Fundamentals and Use Cases for V2G AC Technology

- How AC-based V2G differs from DC approaches
- Technical architecture: onboard chargers, grid interface, communication layers
- Use Cases: Residential V2G, workplace and fleets
- Grid support Use cases: frequency regulation, peak shaving, emergency backup

9:45 -10:15 am

Coffee Break

10:15 – 11:30 am

V2G-AC North American Standards & Interoperability

- SAE J3072: V2G-AC EV Requirements
- UL 1741 SC: V2G-AC EVSE Requirements
- UL 1741 SB CRD:DER Unit Certification
- OCPP 2.1: CNO-EVSE V2G Communications
- ISO 15118-20 Am 1: Communication protocols and Plug & Charge capabilities
- IEEE 2030.5: Smart energy profile for grid interaction (CSIP) and J3072 Profile

11:30 am – 12:00 pm

Interoperability & Cybersecurity

- Interoperability challenges V2G-AC and Task53
- Cybersecurity challenges in bidirectional charging

- *Facilitator:* James Mater, Senior Director - Smart Grid, **Quality Logic**
- Tim Zgonena, Principal Engineer, Distributed Energy Resources and Equipment, **UL**
- Mengjia Cao, High Voltage Charging Standards and Regulations Leader, **General Motors**
- Joshua McDonald, Consulting Architect and Engineer, **Southern California Edison**

12:30 – 1:30 pm

Lunch

1:30 – 5:00 pm

Workshop 2: V2G Policy and Regulatory Issues: Current Status, Challenges and Opportunities

The millions of electric vehicles venturing out on America's roads as part of public and private fleets have untapped potential as a key, flexible resource to support the changing electric grid and save - or even earn - money by doing so. While many vehicle-grid integration (VGI) technologies and capabilities, including vehicle-to-grid (V2G) charging, are readily available today to start driving value for EV owners & fleet operators, their use is limited by key policy and regulatory barriers.

This workshop will explore the historical and current state-by-state landscape for VGI and V2G policy, opportunities arising from recent and proposed federal and state legislation, and key action items to advance the industry.

Session 1: Introduction to VGI, V2G, and Challenges to Mass Deployment

- Workshop Scope
- The ABCs: VGI, V2G, V2X, V2H, V2B
- History of Utility and Automotive Regulation and Emerging Trends
- The Pillars to V2G Market Development: Interconnection, customer programs and utility rates, equipment incentives and market transition support, and standards development
- Case Studies in V2G Excellence
- Challenges to V2G Mass Adoption in North America
- V2G within emerging DER market design and charging infrastructure deployment

Session 2: Utility Interconnection Rules, Procedures, and Best Practices

- Customer Generator Interconnection 101
- Getting to Streamlined, Low-Friction Process End-State
- Interconnection Configurations
- V2G-DC
- V2G-AC
- Smart Inverter Requirements and Market Transition Exemptions
- Interconnection Scorecards, Queue Data Reporting, and Accountability
- V2G Interconnection Standardization and Streamlining Efforts

Session 3: The V2G Business Model Challenge: Unlocking Fair V2G Compensation and Supporting Market Transition

- The basics of V2G project economics
- The emerging paradigm for public and utility funding for charging infrastructure
- EVs as DER assets: energy storage incentives and demand response technology
- Utility rate design trends and best practices
- Customer program design trends and best practices
- Regulatory pathways for the development of rates and programs
- Customer marketing, education, and outreach to support V2G

Session 4: How to Contribute to Realizing the V2G Potential

- Who is working on V2G in the U.S.
- Utility business model, regulatory innovation and "sandboxing," and balancing ratepayer risks
- Federal/State V2G interest and activities
- Emerging utility V2G activities
- Trade Alliance and NGO V2G activities
- Standardization activities
- Forums and conferences
- Key activities that need to be accomplished
- How can interested companies/people get involved

- *Facilitator:* Zach Woogen, Executive Director, **Vehicle-Grid Integration Council**

5:00 – 6:30 pm

Networking Reception

Wednesday, October 22, 2025

8:00 am - 9:00 am

Welcome Coffee and Registration

9:00 – 9:30 am

Welcome Comments

- Brian Calka, Sr. Vice President, Distribution Operations, **DTE Electric**

9:30 – 10:30 am

Opening Plenary Session: State of the V2G Union

- John Holmes, Sr. Principal Energy Advisor, **American Honda Motor Company**

Additional panelists TBA

10:30 – 11:00 am

Networking Coffee Break

11:00 - 11:30 am

Plenary Address: An ACM Perspective on V2G: Opportunities and Offerings

- Reuben Sarkar, CEO and President, **American Center for Mobility**

11:30 am - 2:45 pm

Demos, Exhibits, and Interactive Discussions

The purpose is to show that the pieces are in place to do standards-based V2G at scale in an interoperable manner (vs proprietary solutions)

12:00 - 1:00 pm

Lunch

2:45 - 4:00 pm

The Higher-Level Policy Context for V2G in the U.S.

This panel will explore how states are laying the groundwork for vehicle-to-grid integration, highlighting efforts to foster adoption through supportive policy, utility engagement, and program design. Panelists will examine the importance of aligning regulatory frameworks with market incentives, focusing on fair, transparent compensation mechanisms critical to scaling V2G. The discussion will include methods to measure and value the diverse services provided by distributed energy resources (DERs) behind the meter—ranging from peak load reduction to grid stability—so that both grid operators and asset owners benefit equitably.

- *Moderator:* Blake Heidenreich, Strategic Advisor, **Southern California Edison**
- Kate Peters, Energy Research Associate, **The Brattle Group**
- Randy Armstrong, Clean Transportation Product Manager, **National Grid**
- Zach Woogen, Executive Director, **Vehicle-Grid Integration Council**

4:30 - 5:30 pm

Harmonizing Global Standards for V2G

Harmonization and interoperability plays a critical role in accelerating vehicle-to-grid adoption worldwide. Industry experts and standards leaders in this session will discuss how aligning global protocols—such as ISO 15118, OCPP, SAE, IEC, and regional regulatory frameworks—can enable seamless communication between vehicles, chargers, and the grid. Panelists will highlight real-world deployments, technical and policy barriers to interoperability, and lessons learned from cross-border collaborations. Attendees will gain insight into how unified standards can reduce market fragmentation, drive innovation, and unlock the full potential of V2G for grid resilience, renewable integration, and global scalability.

- Frances Cleveland, President and Principal Consultant, **Xanthus Consulting International**
- Keyur Shah, Head of Product and Strategic Marketing, **Heliox, A Siemens Business**
- Bjoern Christensen, Chief Executive Officer, **Next Dimension**

5:30 - 7:00 pm

Networking Reception

Thursday, October 23, 2025

8:00 am - 9:00 am

Welcome Coffee and Continental Breakfast

9:00 - 10:15 am

Building a Roadmap -- Commercialization of V2G / Bidirectionality in the U.S.

This session will explore how vehicle-to-grid technology can deliver tangible value for both the electric grid and consumers, emphasizing that commercialization hinges on clear economic benefits. Panelists will discuss the development of customer programs, the design of tariffs, and compensation structures that incentivize participation while ensuring grid reliability. The conversation will focus on aligning utility, policy, and market frameworks to create a sustainable business case for bidirectional charging, paving the way for scalable adoption and commercialization across the U.S.

- *Moderator:* Frank Tuffner, Staff Research Engineer, **Pacific Northwest National Laboratory (PNNL)**

- Frances Bell, Founder and CEO, **Bidirectional Energy**
- Michael Sanders, Manager of Consumer Program Integration (CPI), **Salt River Project**
- Garrett Fitzgerald, Senior Director, Electrification, **Smart Electric Power Alliance**

TRACK A

10:45 - 12:00 pm

V2G Standards Update: Moving Away from Matched-Pair Interop to Certification Testing

Panelists in this session will provide a candid look at the evolving standards landscape for vehicle-to-grid interoperability, focusing on both the technical progress and the structural gaps that still impede deployment. We will outline the latest developments in the draft IEEE 1547 standard, including what milestones have been achieved and what challenges remain, as well as updates from the UL 1741-SC efforts. The discussion will address missing supporting structures—such as payment mechanisms and frameworks to manage the complex interactions between underlying systems—that are essential for market viability. A key theme will be the shift from matched-pair interoperability testing toward certification-based approaches, and the lack of a cohesive framework to enable this transition at scale.

- *Moderator:* Glenn Skutt, Chief Technology Officer, **Fermata Energy**
- Mengjia Cao, High Voltage Charging Standards and Regulations Leader, **General Motors**
- Andrew Cifala, Strategic Planner for Grid Modernization, **Keysight Technologies**
- Tim Zgonena, Principal Engineer, Distributed Energy Resources and Equipment, **UL**
- Rodney McGee, Chief Engineer, University of Delaware Task Force Chair, NACS/J3400 and J3068, **SAE International**

TRACK B

10:45 - 12:00 pm

Report from the Field: V2G Pilots Progress and Lessons Learned

Real-world insights from active vehicle-to-grid and vehicle-to-building (V2B) deployments, highlighting both successes and challenges in bringing these technologies from concept to operation. Presenters will discuss replicable lessons from California's electric school bus backup power projects, including technical integration, operational performance, and stakeholder coordination. We will also provide an update on Massachusetts' V2X program, offering a comparative look at program design, grid interaction models, and early market signals. Attendees will gain practical takeaways to inform future projects and accelerate the path toward scalable, value-driven V2G adoption.

- Alex Macharia, VGI Program Manager, **The Mobility House**
- Elijah Sinclair, Senior Program Manager, **Massachusetts Clean Energy Center**

12:00 - 1:00 pm

Lunch for all conference attendees

TRACK A

1:00 - 2:30 pm

When Will V2G AC Be Ready for Scaling / Prime Time?

This panel of leading standards experts will examine the readiness of North American V2G AC standards for broader market deployment, contrasting it with behind-the-meter applications such as vehicle-to-home. Panelists will address status of the V2G-AC standards for North America including UL 1741 SC, SAE J3072, ISO 15118-20 Am 1 and the new UL 1741 SB CRD. With V2G-AC momentum building, this session offers a timely

opportunity for the industry to engage in candid dialogue on the progress of standardizing V2G AC in the evolving energy and mobility landscape.

- Moderator: James Mater, Senior Director - Smart Grid, **Quality Logic**
- Tim Zgonena, Principal Engineer, Distributed Energy Resources and Equipment, **UL**
- Joshua McDonald, Consulting Architect and Engineer, **Southern California Edison**
- Yukihiro Hatagishi, Electric Vehicle Charging Hardware Systems Researcher, **National Renewable Energy Laboratory**

TRACK B

1:00 - 2:30 pm

Electric Buses and V2G: Current Pilots, Results to Date, and Directions Forward

Panelists and session details TBA

2:30 - 3:00 pm

Networking Coffee Break

3:00 - 4:30 pm

Cybersecurity Considerations for V2G: Meeting the Challenge

Emerging security challenges are becoming evident at the intersection of electric mobility and the power grid. As V2G systems enable bidirectional energy flow and deep integration between vehicles, charging infrastructure, and grid management platforms, they also introduce new attack surfaces and vulnerabilities. Panelists will examine critical topics such as authentication and encryption for charging communications, risks from compromised devices or networks, supply chain security, and the need for resilient architectures that can withstand both cyberattacks and grid disturbances. One topic in particular will be DC reverse power transfer (V2X) using the DIN 70121 protocol from EVs not designed for V2X. Real-world lessons from pilot projects and related energy-sector security incidents will inform a discussion on best practices, standards development, and collaboration between automakers, utilities, technology providers, and regulators to ensure that V2G can scale safely and securely.

- Richard "Barney" Carlson, Principal Research Engineer, **Idaho National Laboratory**

Additional panelists TBA

Event Venue



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 - Attendee List with contact information
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Silver - \$3,500

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 - Booth space in V2G demo area
 - 2 complimentary passes
 - Attendee list
 - Virtual Exhibits display page / booth (available for full year after close of Summit)
 - Prominent logo visibility on event website and in all marketing communications
 - Prominent logo recognition throughout the conference, during breaks and session introductions
 - Corporate description with link on "Sponsors" page
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Bronze - \$2,500

- 1 complimentary pass
- Attendee list
- Virtual Exhibits display page / booth (available for full year after close of Summit)
- Prominent logo visibility on event website and in all marketing communications
- Prominent logo recognition throughout the conference, during breaks and session introductions
- Corporate description with link on "Sponsors" page

To arrange your participation, contact: Daniel Coran, Program Manager
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About the Organizer

The Smart Grid Observer is an online information portal and weekly e-newsletter serving the global smart energy industry. SGO delivers the latest news and information on a daily basis concerning key technology developments, deployment updates, standards work, business issues, and market trends driving the smart grid industry worldwide. Visit <https://smartgridobserver.com> to sign up for a complimentary subscription.

For a list of upcoming and recent Forums, [click here](#)

Registration

Early Bird Main Conference, Standard Rate - Equipment and software providers, consultants, and services providers	\$895.00
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Available until September 19, 2025 - \$995.00 thereafter. Access to sessions on October 22-23, including lunches, networking coffee breaks, and exhibits/demos. Access to drink receptions on October 21 and 22. Copy of presentation PDFs and attendee list

Early Bird Main Conference – utilities, academic, government and non-profit organizations	\$695.00
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Available until September 19 - \$795.00 thereafter. Access to sessions on October 22-23, including lunches, networking coffee breaks, and exhibits/demos. Access to drink receptions on October 21 and 22. Copy of presentation PDFs and attendee list

Early Bird Conference plus workshop, Standard Rate - Equipment and software providers, consultants, and services providers	\$1,290.00
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Available until September 19 - \$1,390.00 thereafter. Includes access to workshops on October 21.

Early Bird Conference plus workshop – utilities, academic, government and non-profit organizations	\$1,090.00
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Available until September 19 - \$1,190.00 thereafter. Includes access to workshops on October 21. Note: .org, .edu or .gov email address required for non-utility registrants

Early Bird Workshops only	\$495.00
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Available until September 19 - \$595.00 thereafter. Access to workshops and drink reception on October 21

Register securely online at
<https://v2gforum-sgo.com/register>