

EEI 2022

JUNE 20-22 JW Marriott Orlando, Grande Lakes

Highlights From EEI's Annual Meeting

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Above, L to R: EEI Vice Chair Pedro J. Pizarro, Edison International President and

CEO; EEI Chair Warner Baxter, Ameren Corporation Executive Chair; outgoing EEI Chair Gerry Anderson; EEI Vice Chair Maria Pope, Portland General Electric President and CEO; EEI President Tom Kuhn.

EEI Elects New Leadership

Today, EEI's Board of Directors elected Ameren Corporation Executive Chairman **Warner Baxter** as EEI Chairman for the 2022-2023 cycle. Anderson succeeds **Gerry Anderson**, executive chair of DTE Energy. Also elected were two Vice Chairs: Edison International President and CEO **Pedro J. Pizarro** and Portland General Electric President and CEO **Maria Pope**.

"On behalf of EEI and our member companies, I extend our sincerest thanks to Gerry Anderson for his service as EEI chair," said EEI President **Tom Kuhn**. "Gerry's continued dedication to delivering a resilient clean energy future to our customers led to the successful inclusion of many key industry priorities in the bipartisan Infrastructure Investment and Jobs Act. This law provides significant investments in critical energy infrastructure and new carbon-free technologies and includes a solid down payment on the electric vehicle charging infrastructure needed to accelerate the electrification of the transportation sector."

"We also are pleased to announce that Warner Baxter was elected EEI chair for the 2022-2023 cycle," added Kuhn. "Warner previously served as an EEI vice chair and is an outstanding leader for Ameren and for our industry. I look forward to continuing our work together to advance our common goals and to advance public policies that benefit the customers we so proudly serve."

"America's electric companies are committed to getting the energy we provide as clean as we can as fast as we can, without compromising on the reliability or affordability that our customers depend on," said Baxter. "Throughout the challenges of the past few years, our industry has remained focused on making investments that enhance resilience and make a cleaner and affordable future for all."

Kuhn also applauded the vice chairs who will support Baxter as part of EEI's leadership team: "Pedro and Maria are tremendous leaders for our industry, particularly in their efforts to reduce economy-wide carbon emissions and to enhance energy grid resilience through investments in innovative new technologies. We are extremely fortunate to have them serve on the EEI leadership team."

Learn more in [EEI's press release](#).



Top: EEI President Tom Kuhn welcomes attendees to EEI 2022. Above: Outgoing EEI Chairman Gerry Anderson (L) engages with Columbia University's Jason Bordoff; and Harvard University's Meghan O'Sullivan on energy security and climate goals.

EEI 2022's Opening Keynote Session

Today, EEI President **Tom Kuhn** welcomed attendees to EEI 2022—our first in-person annual meeting in three years—and gave a powerful overview of the profound transformation EEI's member companies are leading: "Our member companies, and the people in this room, are dedicated to delivering a resilient clean energy future—

reliably, affordably, and as fast as we can. We are thrilled to be back together again in person."

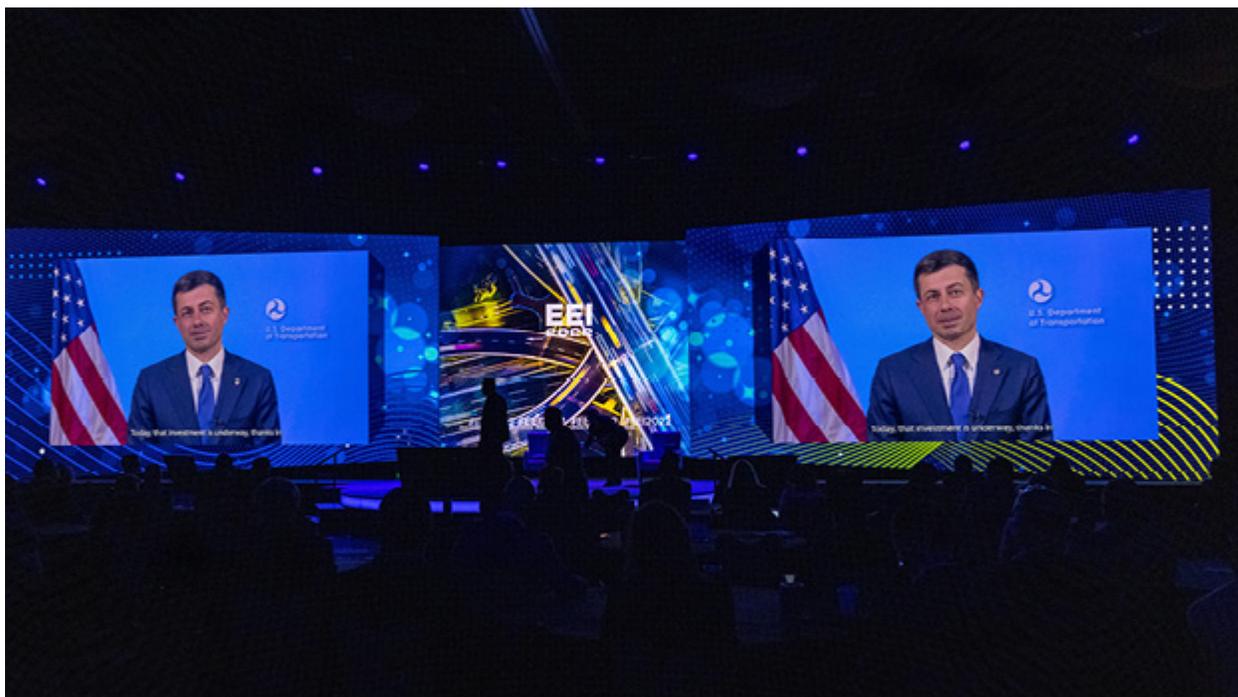
The opening general session continued with outgoing EEI Chair **Gerry Anderson** being joined by two leading scholars—**Jason Bordoff**, Co-Founding Dean of the Columbia Climate School, Founding Director of the Center on Global Energy Policy, and Professor of Professional Practice in International and Public Affairs at Columbia University SIPA; and **Meghan O'Sullivan**, the Jeane Kirkpatrick Professor of the Practice of International Affairs and the Director of the Geopolitics of Energy Project at Harvard University's Kennedy School. Anderson, Bordoff, and O'Sullivan engaged in a fireside chat about the challenges of achieving energy security and climate goals—especially in light of the war in Ukraine.

"Russia's invasion of Ukraine has highlighted two important points about energy: first, secure access to oil and natural gas is vital to ensuring that energy is reliable, affordable, and secure now," Anderson said. "Second, we need to complement that imperative with a hard push to transition to a clean energy future."

Bordoff agreed that enhancing energy security also can help respond to the climate crisis: "The things that make you more climate secure make you more energy secure. They just don't help you in this immediate crisis.... If energy security and affordability start to come into tension with climate concerns, climate will lose."

O'Sullivan unpacked the complexities of petroleum-exporting countries' political influence as the global clean energy transition continues in the long term:

"Petrostates... are in a position to take advantage of waning supplies while demand is still robust. That's what Putin did—and exploited—for political purposes."



Above: U.S. Secretary of Transportation Pete Buttigieg provides video remarks to EEI 2022 attendees.

EEI 2022's general session continued with video remarks from U.S. Secretary of Transportation **Pete Buttigieg**: "Thank you for your tireless commitment to deliver a clean energy future through electric transportation," Buttigieg said. "Last year, I talked about the need for historic investment in electric transportation. Today that investment is under way.... I'm grateful for the work you are already doing, including through the [National Electric Highway Coalition](#)."



Above (L to R): EVNoire Chief Disruptor and Managing Partner Terry Travis discusses e-mobility and energy equity with EEI Vice Chair Pedro J. Pizarro.

Continuing the discussion of electric transportation at EEI 2022, EEI Vice Chair **Pedro J. Pizarro** engaged in a conversation with EVNoire Chief Disruptor and Managing Partner **Terry Travis** on e-mobility and energy equity—an issue that "is an opportunity to ensure all the communities we serve benefit from our investments," according to Pizarro. "It also is a very important part of the electric transportation puzzle.... This is an important part of what we do in southern California."

"Electric companies are going to serve as the gas stations of the future, from e-bikes to heavy freight," Travis said, offering examples of the challenges and opportunities for electric companies to advance EV charging further: "We're working on multifamily [EV charging]: how folks who live in apartments and might not have residential charging can have access to e-mobility.... Electric companies are going to play a major as we are

electrifying transit, school buses, last-mile delivery. Siting that infrastructure is going to be critical."



Above: Duke Energy Chair, President, and CEO Lynn Good (L) discusses cybersecurity infrastructure with Cybersecurity and Infrastructure Security Agency Director Jen Easterly.

EEI 2022's opening general session continued with a look at electric companies' focus on protecting their critical energy infrastructure. Cybersecurity and Infrastructure Security Agency (CISA) Director **Jen Easterly** joined Duke Energy Chair, President, and CEO **Lynn Good** for a dialogue about "the 3Ps to infrastructure security": people, preparedness, and partnerships.

"At CISA, we are leading efforts to manage, understand, and reduce risk—and this has to be based on strong partnerships," Easterly said. "Edison said, 'There's a better way to do it. Find it.' I've been looking for ways to find true collaboration [and] real-time sharing of the actionable information that companies need to defend themselves, and a partnership that is transparent and responsive—where the government is there to help and to add true value."

"The people here [at EEI 2022] are working hard to do all that we know to do [on cybersecurity]," Good agreed. "Our partnership needs to evolve and to keep changing."



Above: Ukrenergo CEO Volodymyr Kudrytskyi addresses EEI 2022 live from Ukraine.

Special Recognition: Ukrenergo National Power Company

The opening keynote session of EEI 2022 proved to be unlike any other in our history, as EEI accorded special recognition to Ukrenergo National Power Company, which operates Ukraine's electric transmission system, for its continuing efforts to protect and to secure the country's energy grid.

"We heard earlier today about the impact on global energy because of Russia's invasion of Ukraine," **Tom Kuhn** noted. "We all have seen video and photos of the devastation and human tragedy in Ukraine. In addition, we also have seen incredible acts of heroism. Most often, we hear of it on the battlefield, or in moving acts of human kindness and humanitarianism.

"There is another set of heroes in Ukraine, perhaps not as well known," Kuhn continued. "These are the men and women who have kept the lights on and the energy flowing for millions of Ukrainians. This is despite the devastation and constant physical and cyber-attacks to their infrastructure and their people. At no small sacrifice on their parts. Hero is the only word that does justice for what they do every day."

Accepting this recognition, Ukrenergo CEO **Volodymyr Kudrytskyi** addressed EEI 2022 attendees live from Ukraine. "It is a great honor and privilege to speak to you today about the fearless, dedicated work of my colleagues who managed to keep the lights on during this horrible unjustified invasion of Ukraine," Kudrytskyi said, detailing

how his company disconnected its energy grid from Russia shortly before the invasion and, shortly afterward, successfully synchronized with the European grid.

"We believe this synchronization began a new energy order in Europe," Kudrytskyi continued. "We value the relationship we have with U.S. organization and the U.S. government.... In Ukraine, we feel your support."



Above, L to R: Duke Energy State President, Florida Melissa Seixas; St. Petersburg College Dean of Workforce Development Dr. Belenthia Berry; Pinellas County Urban League CEO Watson Hayes; EEI Vice President, Chief Diversity Officer, and Chief Human Resources Officer Courtney Peterson.

Workforce Development Experience in The Hub

Electric companies are finding unique solutions to address today's historic workforce challenges. Today at EEI 2022, three sessions explored key themes and some of the innovative ways companies are developing the workforce of tomorrow. These sessions were moderated by EEI Vice President, Chief Diversity Officer, and Chief Human Resources Officer **Courtney Peterson**.

First, Duke Energy State President, Florida, **Melissa Seixas** discussed partnerships to train future lineworkers with St. Petersburg College Dean of Workforce Development **Dr. Belenthia Berry** and Pinellas County Urban League CEO **Watson Hayes**.

"We are focused on making sure we are hiring diverse candidates into our workforce not just for today, but for tomorrow," Seixas said. "It's very important to me that our workforce reflect our communities."

"The beauty of this [relationship] was the fact that Duke Energy was willing to take the risk," Dr. Berry said. "Employees at Duke Energy said somebody gave me a chance, and I want to give that back." Hayes agreed with the program's approach: "We create millionaires by creating the environment for them to work and to be productive."

Then, Urbint Senior Vice President of Sales **Julien Marin** explained how companies can use artificial intelligence to predict and to prevent worker safety incidents. "The goal is to save lives, and that is part of the mission we've embarked on," he said. "Our vision is a world with zero safety incidents."

And, MidAmerican Energy President and CEO **Kelcey Brown** explored the vital role that military veterans play in America's electric companies and discussed the [Veterans in Energy](#) (VIE) employee resource group (ERG) program. "VIE helps electric companies and their energy partners provide best practices for getting ERGs started," she said. "The electric power industry's commitment to communities, and what that does for our companies, truly is incredible."



EEI 2022's EV Alley features a range of exciting electric vehicles, demonstrating the rise of electric transportation for both personal and business applications.

EEI Projects 26.4 Million Electric Vehicles Will Be on

U.S. Roads in 2030

Today during EEI 2022, EEI released an update to its [Electric Vehicle Sales and the Charging Infrastructure Required Through 2030](#) report. Originally released in 2018 with the Institute for Electric Innovation, the updated report details new insights into the coming wave of EV sales and the charging infrastructure needed to support the projected electric vehicle (EV) growth.

This consensus forecast is based on four independent forecasts done by Boston Consulting Group, Deloitte, Guidehouse, and Wood Mackenzie, as well as analysis from the National Renewable Energy Lab. The report concludes that:

- The number of EVs on U.S. roads is projected to reach **26.4 million in 2030**, up from the projected 18.7 million as projected in the 2018 report.
- The projected 26.4 million EVs will make up **nearly 10 percent** of the 259 million light-duty vehicles (cars and light trucks) expected to be on U.S. roads in 2030.
- It took eight years to sell one million EVs and fewer than three years to sell the next million. EEI projects **the next one million EVs will be sold by the end of 2022**.
- **Annual sales of EVs will be nearly 5.6 million in 2030**, reaching more than 32 percent of annual light-duty vehicle sales in 2030. Compared to the 2018 forecast, this is an increase of more than 1.8 million in annual sales in 2030.
- **Nearly 12.9 million charge ports** will be needed to support the projected 26.4 million EVs that will be on U.S. roads in 2030.
- Approximately **140,000 DC fast charging ports** will be needed to support the level of EVs expected to be on U.S. roads in 2030.

The report also highlights the continuous work of the [National Electric Highway Coalition](#) (NEHC). Since its formation in December 2021, the NEHC has grown to more than 60 investor-owned electric companies, public power utilities, and electric cooperatives. To date, NEHC members have committed to supporting the deployment of more than 4,500 DC fast charging ports.

Read more in [EEI's press release](#). Visit the newly relaunched [The Electric Generation website](#) for updates and insights on the work of NEHC members to help expand EV fast charging.

Electrifying America's transportation sector—and the leadership of EEI's member companies, which is making it happen—was the theme of the Electric Transportation Experience this afternoon in The Hub. "EEI and our member companies are committed to helping electrify the transportation sector and to reducing economy-wide carbon emissions," said EEI Senior Director of Electric Transportation **Kellen Scheffer**.

"Across the country, electric companies are continuing to partner with communities, stakeholders, and businesses to build and deploy the EV charging infrastructure needed to support the increasing number of EVs that will be on U.S. roads by the end of the decade. We remain committed to investing in customer programs and projects and to supporting policies that will ensure the transition to EVs is convenient and seamless for all drivers."

The Electric Transportation Experience continued with remarks from Daimler Truck North America Vice President and Chief of E-Mobility **Rakesh Aneja** about the Freightliner eCascadia electric semi-tractor, on display in EEI 2022's EV Alley. "This truck has been a labor of love for my team and my company," Aneja said. "Our world is changing. We are embarking on a monumental shift in technologies that upend a 125-year history of energy—and electric companies are the providers."

Schefter then returned to the stage for a conversation about the NEHC's goals and achievements to date with American Electric Power Executive Vice President and COO **Lisa Barton** and Ameren Corporation President and CEO **Marty Lyons**. "When you think about EV charging, you're looking into the future," Barton said. "How do we ensure our customers and communities are successful, because our success is dependent on theirs. When you think about the vast rural areas of this country, we have to help them succeed in a clean energy economy. This is a situation where we need to work together to make this happen."

Lyons concurred: "We operate in different areas, but we have a similar outlook and mindset—thinking about our customers' carbon reduction goals, and how we can facilitate them. We also are thinking about how these many great EV models that are coming our customers' way and how we can enable our customers to own them—both because they are good for the environment and because they are more economical to operate."

Later, Energy Impact Partners Principal **Vida Asiegbu** moderated a dynamic conversation about new technologies that are enabling EV charging. Asiegbu was joined by FLO EV Charging President and CEO **Louis Tremblay**; ev.energy Head of North America **Joseph Vellone**; and ChargerHelp! CEO **Kameale Terry**. The conversation also discussed how to deploy customer-friendly methods including seamless payment options.

The Electric Transportation Experience concluded with a panel discussion about how electric companies and technology partners are connecting customers to EVs. GridX CEO **Chris Black**; AES Motor Head of Utilities Partnerships **Justin Sufan**; and Baltimore Gas & Electric Director of Strategy/Utility of the Future **Divesh Gupta** explored how successful partnerships between electric companies and technology firms are key to enabling the further growth of EVs in the United States.

Tuesday's Breakout Sessions

Throughout EEI 2022, breakout sessions and global thought leaders are exploring critical topics impacting today's electric power industry. Visit our [EEI 2022 highlights webpage](#) in the coming days for additional material from EEI 2022 sessions, and look for much more in an upcoming issue of [Electric Perspectives](#).

Cryptocurrency: Partnering With 'Miners' to Meet Energy, Environmental Demands

The continued focus on cryptocurrencies and their need for energy presents significant opportunities and challenges for electric companies. The ability to meet customer demand while achieving clean energy goals requires energy providers and crypto 'miners' to partner in creative solutions. Compute North Chief Financial Officer **Tad Piper** and Applied Blockchain Executive Vice President of Power **Etienne Snyman** offered their perspectives on existing partnerships and future opportunities in a dynamic discussion moderated by NorthWestern Energy CEO **Bob Rowe**.

Delivering on the Promise of Fleet Electrification

Truck electrification in the United States is about to put the pedal to the metal, driven by economics, environmental goals, and public policy. Forecasts call for the number of electric trucks, large and small, to increase by as much as 50 percent annually, growing to a \$15-billion market by 2030. Electric companies are working with vehicle makers and fleet customers discuss the need to work together in unprecedented ways to ensure a seamless transition to electric fleets.

UNS Energy President and CEO **Susan Gray** moderated a dialogue with Ford Pro CEO **Ted Cannis**; Verizon Vice President of Fleet Operations **Kenneth Jack**; and Deloitte Specialist Lead, EV Strategy and Planning **Adrian Rouse**.

"When done properly, transportation electrification opens new opportunities for efficiencies and operational cost savings," Gray said. "It also requires all of us to think differently about the customers we serve. Commercial fleet operators, in particular, could become significant users of electricity as a fuel, and the implications of that shift impact infrastructure, operations, and how we all interact."

"The energy picture is different.... It requires more thought, but when you do it right, you get both customer and stakeholder satisfaction," Jack emphasized.

Cannis agreed, commenting: "[Fleet electrification] is coming so fast.... You have to have a plan to invest in the commercial space... and it requires a dedicated team with a

lot of focus. The partners you select on this journey are going to be so strategically important."

Evolving Threats: What Doesn't Keep You Awake at Night?

From nation-state attackers to criminal hackers, hacktivist groups, insider threats, spyware, ransomware, database breaches, sabotage, and global digital warfare, cybersecurity challenges are growing more sophisticated.

To meet these threats, the electric sector employs a multifaceted approach, including partnering across the industry and with the public sector through the CEO-led [Electricity Subsector Coordinating Council](#) (ESCC). Berkshire Hathaway Energy President and CEO **Bill Fehrman**, the current ESCC co-chair, and his ESCC predecessor, Southern Company Chairman, President, and CEO **Tom Fanning**, discussed their companies' approach to security, how to create a culture of security, and what else is needed to protect critical infrastructure from cyber-attacks. The panel was moderated by **Kim Zetter**, journalist and author of *Countdown to Zero Day: Stuxnet and the Launch of the World's First Digital Weapon*.

"We used to have just a focus on employee safety," Fehrman said. "Today our tagline across the company is 'safe and secure.' We put as much emphasis on the security of our customers and of data as on the safety of our employees. We are deeply engaged with government partners, and we are... studying what others are doing, and what we need to do."

Fanning emphasized the importance of striving for continually greater protection and success. "I think many forms of regulation breed a defensive mentality in the private sector, and doesn't answer the question of how good can you be," he said, calling for close collaboration between industry and government to ensure effective regulation.

The Future of ESG Reporting

Environmental, social, and governance (ESG) issues are of growing importance to customers, employees, investors, and regulators. For example, the Securities and Exchange Commission this year proposed stronger requirements for disclosure of climate-related risks and greenhouse gas emissions. Other areas of interest include human capital management, cybersecurity, and a host of other social and governance issues. This panel of experts discussed what they see on the horizon and what it means for the electric power industry.

EEl Senior Vice President of Energy Supply and Finance **Richard McMahon** moderated this conversation with Fitch Ratings Senior Director **Barbara Chapman**; Moelis & Company Managing Director **John Colella**; Guidehouse Partner – Energy, Sustainability, and Infrastructure **Dan Hahn**; and NextEra Energy Resources President and CEO **Rebecca Kujawa**.

"ESG is just good business. It's a path we've been on for more than 30 years," Kujawa said. "We are focusing also on employees, diversity of thought, and making good governance decisions. There isn't a single investor who isn't focused on ESG."

Mitigating Climate Risk: AHR and More

The electric power industry is facing the growing severity and frequency of events, both natural and manmade, that threaten the delivery of resilient clean energy. The increase in the frequency of these events, coupled with the growing reliance on electricity throughout the economy, makes adaptation, hardening, and resilience (AHR) an imperative.

EEl Executive Vice President of the Business Operations Group and Regulatory Affairs **Phil Moeller** moderated a discussion with AEGIS Insurance Services, Inc., Vice President and Senior Underwriting Officer **Martin Gaffney**; Edison International Vice President – Enterprise Risk **David Heller**; and Electric Power Research Institute Director – Climate READi, Sustainability & Ecosystem Stewardship **Morgan Scott**.

"The bridge between science and practitioners is starting to appear, and to see that is exciting. It's going to drive climate risk mitigation strategies forward," Scott observed.

Residential Customers Want a New Relationship

Exelon Corporation Senior Executive Vice President and Chief Operating Officer **Calvin Butler** moderated a conversation about how electricity customers are demanding more control over their energy use, and how electric companies are working with regulators and other stakeholders to empower them and to continue to meet their needs. "Customers are making choices about their energy use; about increasing levels of reliability and resilience; about cleaner, more climate-friendly energy options. They want affordable bills, and they want electric companies to enable all this for them," Butler said. "For the clean energy transition to happen reliably, affordably, and equitably, we must make it along with our customers. Also, it all must align with grid planning and operations."

Butler was joined by National Grid Chief Customer Officer **Helen Burt**; Oracle Energy and Water Group Vice President and Head of Opower **Matt O'Keefe**; and NV Energy Vice President of Electrification and Energy Services **Marie Steele**.

"We are spending increasing amounts of time with cohorts like low-income customers to learn how can we focus [on their needs]," Burt said.

Steele agreed: "At NV Energy, we put all our customer programs together with integrated resource planning to make sure that we are optimizing all of it, because our customers are such a big part of meeting our goals."

Previewing Our Wednesday Agenda

[Download the EEI
2022 Agenda](#)

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Speaker Info](#)

Wednesday Morning Keynote

Coquina Ballroom | 8:30 a.m. – 10:55 a.m.

Concurrent Breakout Sessions

- **IIJA and Justice40: A Generational Transformation**
Mediterranean Ballroom, Salon 1-3 | 11:00 a.m. – 11:55 a.m.
- **Meeting Energy Resilience Needs of Corporate, Military Customers**
Mediterranean Ballroom, Salon 6-8 | 11:00 a.m. – 11:55 a.m.

Conference Luncheon and DEI Keynote

Coquina Ballroom | 12:00 p.m. – 1:30 p.m.

Concurrent Breakout Sessions

- **Hydrogen on the Rise as a Clean Fuel**
Mediterranean Ballroom, Salon 1-3 | 1:40 p.m. – 2:40 p.m.
- **The New Geopolitics and Geoeconomics of Energy and Climate**
Mediterranean Ballroom, Salon 6-8 | 1:40 p.m. – 2:40 p.m.

Closing Conference Reception

2:45 p.m. – 3:15 p.m.

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Tuesday's Tweet of the Day



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Cruise Down to EV Alley

Explore our first-ever EV Alley, which will showcase the latest EV technology across a wide range of vehicle types. Check out everything from a long-range luxury sedan and pickup truck to a delivery van, semi-truck and bucket truck—and charging technology, too.

Located directly across from The Hub outside in the porte cochère.

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