



6th Annual
Global Electrification Forum

TRANSITIONING TO A SUSTAINABLE WORLD

BRIDGES • OPPORTUNITIES • BARRIERS • RISKS

APRIL 25 – 29, 2022

EEI 6th Annual Global Electrification Forum Agenda

Transitioning to a Sustainable World: Bridges, Opportunities, Barriers, Risks

Balancing climate change, energy security, affordability, and acceptability are key to achieving a sustainable transition. Industries and governments are exploring pathways and taking steps to realize their climate ambitions while responding to the impacts of the COVID-19 pandemic and evolving geopolitics and geoeconomics.

The transition is taking shape within various sectors and across rural and urban areas, emphasizing how multiple pathways can lead to a more sustainable future. With electricity as the anchor of modern society, electric companies are playing a pivotal role in supporting these simultaneous transitions in all sectors of society.

At the 6th annual Global Electrification Forum (GEF), we aim to highlight the actualities of *Transitioning to a Sustainable World* through a closer look at the *bridges, opportunities, barriers, and risks*. We must ensure that we identify gaps and build the bridges we need, and recognize the many opportunities, both now and in the future, the transition presents. To fortify these bridges and harness these opportunities we must also be candid, reconciling the urgency we face with the reality of change. This requires us to also consider the barriers to overcome and risks we must navigate to create our shared future.

Through key conversations, panel sessions, fireside chats, and CEO-to-CEO dialogues, this year's GEF will cover a variety of topics including the cross-sectoral transition, geopolitics, supply chains, investment, demographics, innovation, resilience, the psychology of change, and more.

Gold Sponsor



6th Annual Global Electrification Forum

TRANSITIONING TO A
SUSTAINABLE WORLD



Guidehouse

Session Agenda

Note: All times are listed in U.S. ET. Registration is required to gain access to the event platform.

Monday April 25

10:30 – 10:45 Platform Orientation

10:45 – 10:55 Welcome & Opening Remarks

- Lawrence Jones, Vice President for International Programs, Edison Electric Institute (United States)
- Thomas Kuhn, President, Edison Electric Institute (United States)

11:00 – 11:20 Opening Conversation

- Secretary John Kerry, U.S. Special Presidential Envoy for Climate, former Secretary of State (United States)
- In conversation with Warner Baxter, Executive Chairman, Ameren Corporation and Vice Chairman, Edison Electric Institute (United States)

11:25 – 12:10 Rescue: From Global Crisis to a Better World

- Ian Goldin, Author and Professor of Globalization and Development at the University of Oxford (United Kingdom)
- In conversation with Lawrence Jones, Vice President for International Programs, Edison Electric Institute (United States)

12:10 – 13:00 Lunch Break | Visit the Library of Innovation

13:05 – 13:50 Walking the Talk on the Road to Sustainability

After the historic Paris Climate Agreement, and during the years leading up to COP26 in Glasgow, countries, cities and several thousand businesses of various sizes and across different industries made climate pledges and commitments to meet net-zero ambitions and other goals between 2030 to 2070. Some called 2021 the year of pledges, and 2022 is called the year of implementation. The recent IPCC report underscores the urgency for more actions that demonstrate the progress being made towards realizing the ambitions. In this panel, speakers will describe what their companies are doing on the road to sustainability and achieving their climate goals.

Session Panelists:

- Gwen Mizell, Chief Sustainability and Diversity Officer, Ameren Corporation (United States)

Agenda continued on next page

- Kate Chisholm, Q.C., Senior Vice President – Planning, External Relations, and Chief Sustainability Officer, Capital Power (Canada)
- Paddy Hayes, CEO, ESB Group (Ireland)
- Roberto Giovannini, Head of Sustainability, Terna S.p.A (Italy)
- Moderator: Gabriela Herculano, CEO & Co-Founder, iClima-Earth (United Kingdom)

14:00 – 14:45 A Question of Power: Electricity and the Wealth of Nations

- Robert Bryce, Author and Host, Power Hungry Podcast (United States)
- In conversation with Pedro Pizzaro, President and CEO, Edison International and Vice Chairman, Edison Electric Institute (United States)

14:45 – 15:00 Eye and Stretch Break

15:00 – 16:00 Journey to Sustainability I

During 2021 and at COP26 companies around the world across all sectors of the economy announced climate goals. They also made pledges and commitments on how to meet them. The year 2022 has been called the year of implementation. Therefore, as the world heads to COP27 and in light of the recent IPCC report, the focus is about all about actions. In this regard, at EEI GEF2022 the segment called “Journey to Sustainability” is an opportunity for the invited speaker to provide highlights about their company’s concrete actions on the climate commitments, accomplishments to date, and their outlook for the next 12 to 24 months.

- Kathleen McLaughlin, EVP and Chief Sustainability Officer, Walmart Inc. (United States)
 - In conversation with Lawrence Jones, Vice President for International Programs, Edison Electric Institute (United States)
- Erica Ocampo, Chief Sustainability Officer, The Metals Company (United States)
 - In conversation with Doug Arent, Executive Director, Strategic Public-Private Partnerships, NREL (United States)

Tuesday April 26

10:15 – 10:20 Opening Day 2

10:20 – 11:05 Accelerating Adoption of Sustainable and Economic Business Models

By converting pledges into outcomes, the private sector can facilitate and accelerate transitioning to a sustainable world. Across the globe companies in the energy and other industries are investing in concrete actions to propel the energy transition forward. To harness the opportunities and manage the risks with the transition, some firms across value chains are rethinking their business models to include sustainability objectives, while others are embracing new business models innovations that support system-level transformation. Several business models, e.g., circularity, regenerative etc., have emerged as alternative solutions to bridge the gap between the traditional objectives of business with sustainability goals. This panel will discuss new sustainable business models and their applicability to the energy sector.

Session Panelists:

- James Arbib, Co-Founder, ReThinkX (United Kingdom)
- John Elkington, Founding Partner and Chief Pollinator, Volans (United Kingdom)
- Angela Wilkinson, Secretary General and CEO, World Energy Council (United Kingdom)
- Moderator: David Owens, President, Da'Vision and Strategies Energy Consultant (United States)

11:10 – 11:55 The Power of Creative Destruction

- Philippe Aghion, Author and Professor at the London School of Economics (United Kingdom)
- In conversation with Lawrence Jones, Vice President for International Programs, Edison Electric Institute (United States)

12:00 – 12:30 J-POWER: Message on Innovation and Blue Mission 2050

- Toshifumi Watanabe, President and CEO, J-POWER (Japan)

12:30 – 13:00 Lunch Break | Visit Rising Stars

13:05 – 13:55 A Shot in the Arm and The New (Ab)Normal

- Yossi Sheffi, Author and Director of the MIT Center for Transportation and Logistics (United States)
- In conversation with James Laurito, Former President and CEO, Central Hudson Gas & Electric (United States)

14:00 – 14:45 Investing in the Clean Energy Ecosystem: Unicorns, Elephants, and Infrastructure

To reach a sustainable world, it is crucial we invest in a clean energy ecosystem which requires investment in clean energy, new technologies, and infrastructure. Investment must consider all parts of the energy transition, including the unicorns – rising stars that are leading the transition with innovation, the elephants – existing giants that are working to transforming their operations, and infrastructure – both old and new to support the transition. This panel will discuss how to drive investment in a clean energy ecosystem and how we can ensure different stakeholders in the transition to a sustainable world can have equal access to investment.

Session Panelists:

- Kevin Fitzgerald, Partner and Chief Utility Officer, Energy Impact Partners (United States)
- Steve Westly, Founder and Managing Partner, The Westly Group (United States)
- Marc Yudaken, Partner, Baker & McKenzie (South Africa)
- Moderator: Carolyn Campbell, Managing Director, (United States)

14:50 – 15:20 Leadership Dialogue

In this conversation two CEOs will discuss a few of the myriad related factors (energy transition, supply chain disruption, climate change and extreme weather, trade conflicts, labor shortage, pandemic, inflation, ESG, technology adoption, stakeholders, pace of change, infrastructure modernization, energy markets, policy, resilience, fuel switching), and mega trends (urbanization, transportation electrification, demographic shifts, decarbonization, digitalization).

- Nicholas Akins, Chairman, President, and CEO, American Electric Power (United States)
- Basil Scarsella, CEO, UK Power Networks (United Kingdom)

15:30 – 16:15 Towards Comparable Disclosure and Transparency in ESG

Companies are becoming more transparent on their efforts to support countries reach climate goals. In recent years, environmental, social, and governance (ESG) reporting has grown with companies identifying different measures that sustain the long-term interests of shareholders, employees, customers, and the communities in which they operate. How can companies navigate the many different ESG reporting approaches in ways that make it effective for their organizations? In this panel, panelists will discuss new climate and ESG disclosure requirements, and the need for comparable and consistent approaches for disclosure and transparency in ESG in the transition to a sustainable world.

Session Panelists:

- Eliza Mahdavy-Turcat, Group Head of ESG Performance, EDF (France)
- Alban Pyanet, Partner, Oliver Wyman (United States)

- Moderator: Christine Martin, Vice President – Public Affairs and Sustainability, PPL Corporation (United States)

16:20 – 16:40 Journey to Sustainability II

During 2021 and at COP26 companies around the world across all sectors of the economy announced climate goals. They also made pledges and commitments on how to meet them. The year 2022 has been called the year of implementation. Therefore, as the world heads to COP27 and in light of the recent IPCC report, the focus is about all about actions. In this regard, at EEI GEF2022 the segment called “Journey to Sustainability” is an opportunity for the invited speaker to provide highlights about their company’s concrete actions on the climate commitments, accomplishments to date, and their outlook for the next 12 to 24 months.

- Patricia Martinez, Chief Energy Transition Officer and President, Latin America, Enerflex Ltd. (United States)
 - In conversation with Lawrence Jones, Vice President for International Programs, Edison Electric Institute (United States)

Wednesday April 27

10:25 – 10:30 Opening Day 3

10:30 – 11:15 Embracing Innovation

Companies across the electricity value chain are investing in innovative initiatives, pilots, demonstration projects and new technologies as they transform their organizations to meet changing preferences and expectations of their customers, investors, and stakeholders. As the energy system continues to transition, electric companies are embracing change and innovation to mitigate the effects of climate change and increase resiliency in their operations. This is increasingly a source of comparative advantage. However, deploying innovation, incremental or disruptive, involves change which always comes with risks. Adopting innovation to transform the global energy system is no exception. Managing the transition-related systemic risks as innovative solutions are deployed is critical. This panel will discuss the pace at which innovation is being deployed in the electricity sector, the technology gaps that exists, and which gaps if closed would provide the shortest bridge to achieving climate goals.

Session Panelists:

- Andrés Gluski, President and CEO, AES Corporation (United States)
- Greg Jackson, Founder and CEO, Octopus Energy Group (United Kingdom)
- Moderator: Jan Vrins, Partner and Segment Leader – Energy, Sustainability, Infrastructure, Guidehouse (United States)

11:20 – 11:50 Fireside Chat with André de Ruyter

- André de Ruyter, Group Chief Executive, Eskom Holdings SOC Ltd. (South Africa)
- In conversation with Rod West, Group President – Utility Operations, Entergy (United States)

12:00 – 12:30 Leadership Dialogue

In this conversation two CEOs will discuss a few of the myriad related factors (energy transition, supply chain disruption, climate change and extreme weather, trade conflicts, labor shortage, pandemic, inflation, ESG, technology adoption, stakeholders, pace of change, infrastructure modernization, energy markets, policy, resilience, fuel switching), and mega trends (urbanization, transportation electrification, demographic shifts, decarbonization, digitalization).

- Maria Pope, President and CEO, Portland General Electric (United States)
- Alison Andrew, CEO, Transpower (New Zealand)

12:30 – 13:00 Lunch Break | Visit the Library of Innovation

13:05 – 13:35 Fireside Chat with Greg Wyler

- Greg Wyler, Founder and CEO, E-Space, Founder, OneWeb, and Founder, O3B (United States)
- In conversation with Lawrence Jones, Vice President for International Programs, Edison Electric Institute (United States)

13:40 – 14:30 Geopolitical Alpha: An Investment Framework for Predicting the Future

- Marko Papic, Author and Partner and Chief Strategist, Clocktower Group (United States)
- In conversation with Lawrence Jones, Vice President for International Programs, Edison Electric Institute (United States)

14:35 – 15:25 Leading the Change When the Abnormal Creates Normal

Various global challenges that are shaping our future have called for leaders to be adaptable. With the impacts of the COVID-19 pandemic, supply chain disruptions, and geopolitical strains, there is a need for stronger leadership. What was once thought to be abnormal is becoming the normal, pushing leaders to rethink issues, including how they will stay on track for climate goals and change how they address employee work-life balance. In this panel, we will hear from two CEOs who will share how they are leading the change through the transition to a sustainable world.

Session Panelists:

- Jay Grewal, President and CEO, Manitoba Hydro (Canada)
- Pat Vincent-Collawn, Chairman, President, and CEO, PNM Resources (United States)
- Moderator: Paula Gold-Williams, Former President and CEO, CPS Energy (United States)

15:30 – 15:50 Journey to Sustainability III

During 2021 and at COP26 companies around the world across all sectors of the economy announced climate goals. They also made pledges and commitments on how to meet them. The year 2022 has been called the year of implementation. Therefore, as the world heads to COP27 and in light of the recent IPCC report, the focus is about all about actions. In this regard, at EEI GEF2022 the segment called "Journey to Sustainability" is an opportunity for the invited speaker to provide highlights about their company's concrete actions on the climate commitments, accomplishments to date, and their outlook for the next 12 to 24 months.

- Susan Uthayakumar, Chief Sustainability and Energy Officer, Prologis (United States)
 - In conversation with Lamine Savadogo, President, Marison Energy Systems (United States)

Thursday April 28

9:55 – 10:00 Opening Day 4

10:00 – 10:40 Fueling the Transition

As we move forward on the energy transition, the energy sector is diversifying its fuel mix and pursuing new technologies to mitigate the effects of climate change and increase resiliency in their operations, while continuing to meet energy demand around the globe. Electric companies are transforming their operations and looking to cleaner, renewable, and low-carbon energy sources to power our livelihoods. This panel session will discuss the how new low-carbon energy sources can keep our lights on and fuel the energy transition.

Session Panelists:

- Ana Quelhas, Managing Director for Hydrogen, EDP Renewables (Portugal)
- Eric McGoey, Director – Remote Generation Development, Ontario Power Generation (Canada)
- Roger Blackman, Managing Director, Barbados Light and Power Company (Barbados)
- Moderator: Eric Holdsworth, Managing Director – Clean Energy and Environmental Policy, Edison Electric Institute (United States)

10:45 – 11:35 Evolving Geopolitics & the Energy Transition: Changing Tracks or Shifting Gears

Throughout history, geopolitics have shaped the trajectory and equilibrium of what becomes the norms of international system of governance, trade, and norms. However, over time as societies evolve new normal emerge. The world is at a critical inflection point as geopolitics are affected by an unprecedented confluence of complex interacting global challenges for which there seems to be no obvious solutions. From the pandemic, inflation, disruption in supply chains, and Russia's invasion in Ukraine and the ongoing war, these crises have serious implications how energy sectors around the world transition to achieve climate and other sustainable development goals. Already, in response to the new geopolitical realities some governments are reversing energy policies and their transition pathways. Others are shifting gears that could accelerate or decelerate their transition. This panel will discuss how these shifts will affect the energy transition and climate goals of the public and private sector.

Session Panelists:

- Simone Tagliapietra, Senior Fellow, Bruegel (Belgium)
- Nikos Tsafos, James R. Schlesinger Chair in Energy and Geopolitics, Center for Strategic and International Studies (United States)
- Alessandro Blasi, Special Advisor to the Executive Director, International Energy Agency (France)
- Moderator: Pierre Bernard, Chair of the Board, Friends of Sustainable Grids and Managing Partner, Bernard Energy (Belgium)

Agenda continued on next page

11:40 – 12:10 Fireside Chat

- Hilde Tonne, CEO, Statnett (Norway)
- In conversation with Lawrence Jones, Vice President for International Programs, Edison Electric Institute (United States)

12:10 – 13:00 Lunch Break | Visit Rising Stars

13:05 – 13:50 The Human Element: Overcoming the Resistance that Awaits New Ideas

- David Schonthal, Author and Professor of Strategy, Innovation & Entrepreneurship at the Kellogg School of Management at Northwestern University (United States)
- In conversation with Brian Wolff, Chief Strategy Officer & Executive Vice President, Policy & External Affairs, Edison Electric Institute (United States)

13:50 – 14:00 Propelling the Transition through Partnerships and International Collaboration I

Remarks from:

- Francis Bradley, President and CEO, Electricity Canada (Canada)
- Abel Didier Tella, Director General, Association of Power Utilities of Africa (Cote d'Ivoire)
- Kristian Ruby, Secretary General, Eurelectric (Belgium)

14:05 – 14:30 Fireside Chat: Navigating the Energy Impacts of Crypto Mining and Metaverse

- Christine Vaughan, Director of Energy and Infrastructure, Roland Berger (United States)
- Stefan Kern, Founder and CEO, Bitkern Group (Switzerland)
- In conversation with Lawrence Jones, Vice President for International Programs, Edison Electric Institute (United States)

14:35 – 15:25 Building Resilience in Utility Operations and Infrastructure Modernization

Electric companies are confronting ageing grid infrastructure and growing climate change impacts. As we move through the energy transition, evolving grid resiliency is playing an increasing role in decision-making and operations. To adjust to these changes and keep the lights on, electric companies are investing in digitization, smart grid infrastructure, cybersecurity, and flexibility of the grid and operations to adapt to new generation sources, customer expectations, complex uncertainty, and technologies. This panel will discuss the bridges, opportunities, barriers, and risks associated with building resilience in electric company operations and infrastructure modernization.

Session panelists:

- Jean-Christian Turkson, Advisor to the General Manager, Compagnie Ivoirienne d'Electricité (Côte d'Ivoire)
- Ruth Forbes, President and CEO, Fortis TCI (Turks and Caicos Islands)

- Ibrahim F. AlJarbou, CEO, National Grid SA (Saudi Arabia)
- Moderator: Robert Rowe, CEO, NorthWestern Energy (United States)

15:30 – 16:15 Realizing Energy Independence in an Interdependent World

The COVID-19 pandemic is a reminder of our interconnectedness. The ongoing disruptions in global supply chains and destruction across value chains highlights the multidimensional interdependency of national economies. However, the new geopolitics caused by Russia's invasion in Ukraine and the ongoing war is a game changer and already has serious implications for the energy sector worldwide. Ending or reducing energy dependency has risen to the top of issues facing governments and businesses. Is it time to reconsider what energy independence means through the lens of a multipolar yet economically coupled world? This panel will explore these and related questions across different geographies and time horizons.

Session panelists:

- John Blackburn, Chairman, Institute for Integrated Economic Research (Australia)
- Tatsuya Terazawa, Chairman and CEO, The Institute of Energy Economics Japan (Japan)
- Moderator: Clint Vince, Partner, Chair of Dentons' US Energy Practice, and Co-Chair of Dentons Global Energy Sector, Dentons (United States)

16:20 – 17:00 Redesigning Supply Chains: People, Politics, Materials, Markets

The pace of transitioning to a sustainable world will depend on the adequate supply, accessibility, and affordability of critical minerals as well as goods and services. The COVID-19 pandemic and its evolving variants have created waves of disruption as companies address labor and materials shortages, and manufacturing delays. Geopolitical tensions and natural disasters have also added to the stress on global supply chains. Most recently, the Russia invasion and war in Ukraine has affected the global supply of wheat, oil, natural gas, and palladium, causing other second-order effects. As an industry that provides a critical service, the electric power industry also faces challenges and feels the strain of the supply chain disruptions. Electrification and shifting to a new energy system will be mineral intensive and require a resilient supply chain. However, existing supply chains need to be redesigned. How can this be done? This panel will discuss opportunities, barriers, and risks with redesigning supply chains.

Session panelists:

- David Lucido, Managing Director, Sentient Hubs (Australia)
- David Hutchens, President and CEO, Fortis Inc. (Canada)
- Nigel Barbour, CEO, Orion Group (New Zealand)
- Morgan Bazilian, Director of the Payne Institute, and Professor of Public Policy at the Colorado School of Mines (United States)
- Moderator: Ian Mcleod, Director - Smart Energy and Water Centre of Excellence, Enzen (Australia)

Friday April 29

10:30 – 10:35 Opening Day 4

10:35 – 10:55 Fireside Chat

- Aneri Pradhan, Chief Operating Officer, New Energy Nexus (Germany)
- In conversation with Lawrence Jones, Vice President for International Programs, Edison Electric Institute (United States)

11:00 – 11:45 Good Habits, Bad Habits: The Science of Making Positive Changes that Stick

- Wendy Wood, Author and Professor of Psychology and Business at the University of Southern California (United States)
- In conversation with Fridrik Larsen, Founder, CHARGE Energy Branding (Iceland)

11:50 – 12:20 TENTIL Dialogue

- Ake Almgren, President, Orkas Inc. (Sweden)
- Thomas Kuhn, President, Edison Electric Institute (United States)

12:20 – 12:30 Propelling the Transition through Partnerships and International Collaboration II

Remarks from:

- Doug Arent, Executive Director, Strategic Public-Private Partnerships, NREL (United States)
- Pierre Bernard, Chair of the Board, Friends of Sustainable Grids and Managing Partner, Bernard Energy (Belgium)
- Cletus Bertin, Executive Director, Caribbean Electric Utility Services Corporation – CARILEC (Saint Lucia)

12:30 – 13:00 Lunch Break | Visit the Library of Innovation

13:05 – 14:00 Zconomy: How Gen Z Will Change the Future of Business

- Denise Villa, Author and CEO, The Center for Generational Kinetics (United States)
- Jason Dorsey, Author and President, The Center for Generational Kinetics (United States)
- In conversation with Lawrence Jones, Vice President for International Programs, Edison Electric Institute (United States)

14:05 – 14:55 Expanding Transmission to Accelerate the Transition

Across the world there is growing demand to transition to more clean energy to meet climate goals and targets. Furthermore, due to the global energy crisis exacerbated by Russia invasion of Ukraine and the war in that country, more countries in Europe and other regions are adopting new policies to increase the amount of renewable generation at an unprecedented scale and fast pace. However, to realize such

Agenda continued on next page

ambitions, the transmission grid, which is the bridge to integrating more wind and solar into energy systems will need to expand significantly. This panel will discuss barriers, risks, and opportunities to expanding transmission networks.

Session panelists:

- John Pettigrew, CEO, National Grid plc (United Kingdom)
- Ahmed Ali Al-Ebrahim, CEO, Gulf Cooperation Council (GCC) Interconnection Authority (Saudi Arabia)
- Moderator: Phillip Moeller, EVP – Business Operations Group and Regulatory Affairs, Edison Electric Institute (United States)

15:00 – 15:25 Fireside Chat: Impact of Quantum Computing on Industry and Society: What to Expect and How to Prepare

- Vishal Shete, Director - Commercial, Strategy & Delivery, Terra Quantam AG (United Kingdom)
- In conversation with Lawrence Jones, Vice President for International Programs, Edison Electric Institute (United States)

15:30 – 16:15 2050, We've Transitioned to a More Sustainable World: How?

Throughout the week, many sessions consisted of a forward-looking exploration of the path to sustainability examining the bridges, opportunities, barriers, and risks. Imagine that it is 2050 and we have successfully traversed some complex, multi-dimensional path to a much more sustainable world. What were the key milestones and accomplishments underpinning that success? Panelists will take a "future-back" perspective to address the "How?" and imagine themselves at the top of the mountain, looking back down on the path taken to identify major peaks and turning points, rather than trying to guess at the meandering path while staring up at the mountaintop from the base.

- Ani Dasgupta, President and CEO, World Resources Institute (United States)
- Senamile Masango, Founder and Chairperson, Women in Science and Engineering in Africa (South Africa)
- Donna Kennedy-Glans, Author of *Teaching the Dinosaur to Dance: Moving Beyond Business as Usual* (Canada)
- Moderator: Chunka Mui, Author, Futurist, and Innovation Advisor, Future Histories Group (United States)

16:15 – 16:30 Closing Remarks

- Thomas Kuhn, President, Edison Electric Institute (United States)
- Lawrence Jones, Vice President for International Programs, Edison Electric Institute (United States)