

INSTITUTE FOR ELECTRIC INNOVATION

2021 YEAR AHEAD

Message from the Executive Director

This year, the Institute for Electric Innovation (IEI) will focus on innovative customer solutions through its key initiatives:

- **Powering the People 2021**
- **Thought Leaders Speak Out: Dialogues with Technology Companies on Engaging Customers**
- **IEI Executive Dialogues at EEI 2021 Annual Convention**
- **New Issue Brief: 100% Carbon-Free Energy Solutions for Corporate Customers**
- **New Issue Brief: Utilizing Electric Buses in State Implementation Plans to Improve Local Air Quality**
- **Issue Briefs and Reports**



Lisa Wood
*Executive
Director*

This year ahead report highlights our plans for 2021.

-Lisa Wood, Executive Director, Institute for Electric Innovation

Powering the People 2021

Fall 2021, Washington, DC

Advancing Sustainability Solutions for Customers

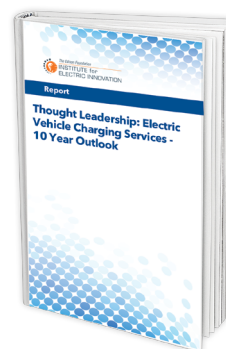
This by-invitation event brings together a select group of electric companies, technology companies, environmental organizations, policymakers, regulators, and other thought leaders for an afternoon of dialogue and discussion.

This half-day event will focus on next steps in providing 24/7 sustainable energy solutions to customers including the critical role that zero-carbon energy resources will play in the future.

Thought Leadership: Electric Vehicle Charging Services - 10 Year Outlook 2021

Developing Charging Services to Serve Corporate Customers with Electric Fleets

Today's corporate customers are looking to electrify their fleet vehicles to reduce carbon emissions even further. Today's tactical, pragmatic efforts by electric companies are focused on working to ensure that the transition to electric fleets and charging is as seamless as possible for fleet customers. This tactical focus is key to increasing the penetration of electric fleet vehicles. At the same time, a longer-term outlook about what fleet charging services might look like with a high penetration of electric fleet vehicles is also needed. This issue brief will focus on expected demand for electricity by electric fleet vehicles in 2030 and potential charging services and plans to serve fleet customers.



IEI Executive Dialogues

June 2021, EEI Annual Convention

IEI Management Committee and Technology Partner Executive Dialogues

The EEI 2021 Annual Convention is the electric power industry's premier gathering of senior electric company executives and key stakeholders. During the convention, IEI will convene two private, by-invitation meetings between IEI's Management Committee of electric company CEOs and IEI's Technology Partner Roundtable executives. These closed-door discussions are an opportunity to move the ball forward on critical issues of interest to both electric companies and technology companies.

IEI Thought Leaders Speak Out: Dialogues with Technology Companies

Throughout 2021

IEI Member Company and Technology Partner Executive Dialogues

Throughout 2021, IEI will hold a series of "fireside chats" between one technology company (that is a member of the Technology Partner Roundtable) and one of its electric company clients to discuss how the two companies are working together to better engage residential customers. Each dialogue will focus on the technology deployed to engage customers, the customer uptake, and the results and lessons learned. This is an opportunity to learn what your electric company colleagues are doing to enhance customer engagement and get up to speed on new approaches and technologies that technology companies are employing. All electric company members will be invited to attend each dialogue.

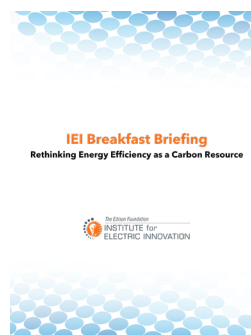


IEI Breakfast Briefing at NARUC

2021

Topic: Rethinking Energy Efficiency as a Carbon Resource

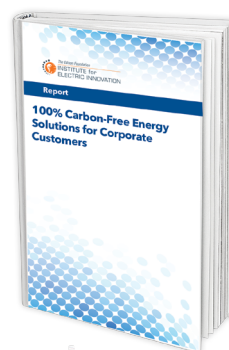
At the NARUC Annual Meeting, IEI will host and moderate a breakfast briefing focused on the importance of measuring, reporting, and incenting the carbon emissions reductions associated with energy efficiency (EE) and how data analytics and smart meters are allowing electric companies to deliver targeted EE programs to customers. Electric companies are actively seeking partners and regulatory support to advance new concepts and technologies that reduce carbon emissions and shift demand to times of day when system emissions are low. What new programs, policies, and/or technologies are needed to provide the capability to better align customer energy usage with resources on the system?



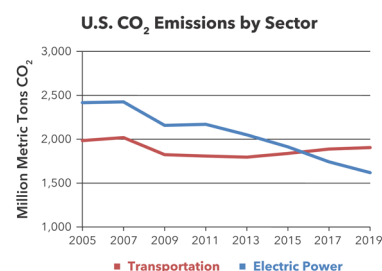
IEI Issue Briefs & Reports

- **NEW. 100% Carbon-Free Energy Solutions for Corporate Customers.** To meet the growing corporate customer demand for 100 percent carbon-free energy 24/7, electric company offerings will need to advance beyond wind and solar green tariff programs into offerings that create blocks of clean energy and clean capacity by including all carbon-free energy resources available such as demand-side resources, storage, nuclear, hydro, and renewable energy. This paper summarizes the first generation of possible clean energy offerings for corporate customers.

The paper will also discuss how electric companies have an opportunity to become the end-to-end solution provider for corporate customers, the integrator of variable supply and flexible demand resources, the coordinator via tariffs, and the tracker of emissions and resource availability.

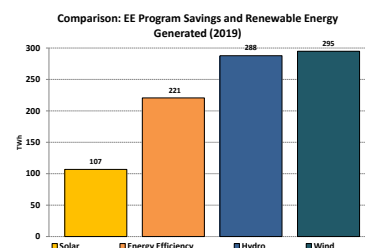


- **NEW. Utilizing Electric Buses in State Implementation Plans to Improve Local Air Quality.** Summarizes how expanding the use of electric buses - both public transit and school buses - can help improve local air quality because many buses today are powered with diesel engines that produce ozone and other pollutants. Describes how electric company programs to support electric buses could be included in state implementation plans aimed at reducing air pollution and how this results in a win-win for states, bus owners, customers, and electric companies.

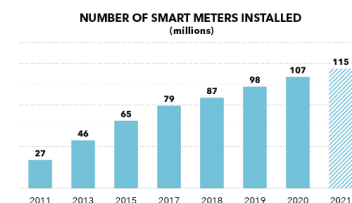


- **IEI Fact Sheets**

- Energy Efficiency Trends in the Electric Power Industry: Top 10 Things You Should Know (March)
- Electric Companies are Committed to a Clean Energy Future: 10 Things You Should Know (April)
- Smart Meters – At a Glance. Key Facts about Smart Meter Deployments (December).



- **ONGOING REPORT. Smart Meter Report.** Summarizes smart meter deployments to-date by state and by electric company and describes how electric companies are using smart meters to benefit customers and enhance grid reliability, operations, and resilience.
- **ONGOING REPORT. Energy Efficiency Report.** Summarizes energy efficiency program savings and carbon emissions avoided and compares energy savings to other zero-carbon energy generation. Details energy efficiency regulatory frameworks state-by-state that are critical for continued electric company investments in demand-side resources: direct cost recovery, fixed-cost recovery, and performance incentives.



Issue briefs and reports are available at <http://www.edisonfoundation.net>.

IEI Management Committee

Executive Director – Lisa Wood

Co-Chair – Mark Lantrip, President and CEO, Southern Company Services

Co-Chair – Robert Rowe, President and CEO, NorthWestern Energy

- **Nicholas Akins**
Chairman, President, and CEO
American Electric Power
- **Warner Baxter**
Chairman, President, and CEO
Ameren Corporation
- **Robert Blue**
President and CEO
Dominion Energy
- **Kelcey Brown**
President and CEO
MidAmerican Energy
- **Calvin Butler**
Senior Executive Vice
President and CEO, Exelon
Utilities
Exelon Corporation
- **Doug Cannon**
President and CEO
NV Energy
- **Brett Carter**
Executive Vice President
and Chief Customer and
Innovation Officer
Xcel Energy
- **Tim Cawley**
President and CEO
Consolidated Edison
- **Christopher Crane**
President and CEO
Exelon Corporation
- **Ron Darnell**
Senior Vice President, Public
Policy
PNM Resources
- **Thomas Fanning**
Chairman, President, and CEO
Southern Company
- **Benjamin Fowke**
Chairman, President, and CEO
Xcel Energy
- **Andrés Gluski**
President and CEO
AES Corporation
- **Lynn Good**
Chairman, President, and CEO
Duke Energy Corporation
- **Lisa Grow**
President and CEO
Idaho Power Co.
- **Jeff Guldner**
Chairman, President, and CEO
Pinnacle West Capital
Corporation
- **David Hutchens**
CEO
UNS Energy Corporation
- **Mary Kipp**
President and CEO
Puget Sound Energy
- **Kenny Mercado**
Executive Vice President
CenterPoint Energy
- **Jerry Norcia**
President and CEO
DTE Energy Company
- **Kevin Payne**
President and CEO
Southern California Edison
- **Scott Seu**
President and CEO
Hawaiian Electric Company
- **Eric Silagy**
President and CEO
Florida Power & Light
Company
- **Sean Trauschke**
Chairman, President, and CEO
OGE Energy Corporation
- **David Velazquez**
President and CEO
Pepco Holdings
- **Dennis Vermillion**
President and CEO
Avista Corporation

2021 IEI Technology Partner Roundtable

Anterix

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Itron

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Utilities

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sensus
a xylem brand

uplight

Members of the Institute for Electric Innovation and the Edison Foundation

IEI's members are the investor-owned electric companies that represent about 70 percent of the U.S. electric power industry. Membership is open to all electric utilities, including investor-owned electric companies, public power utilities, electric cooperatives, federal utilities, and international utilities. The Institute for Electric Innovation is a program of the Edison Foundation. Contributions to The Edison Foundation and its programs are tax deductible in the same manner as contributions to any 501(c)(3) organization.

- AES Corporation
- Alliant Energy
- Ameren Corporation
- American Electric Power
- American Transmission Company
- AVANGRID
- Avista Corporation
- Berkshire Hathaway Energy
- Black Hills Corporation
- CenterPoint Energy
- Central Hudson Gas & Electric Corp.
- Cleco Corporate Holdings
- Consolidated Edison
- Dominion Energy
- DTE Energy Company
- Duke Energy
- Duquesne Light Company
- Edison International
- El Paso Electric
- Entergy Corporation
- Evergy
- Exelon Corporation
- Florida Public Utilities
- Green Mountain Power Corporation
- Hawaiian Electric Industries
- IDACORP
- Liberty Utilities
- MDU Resources Group
- National Grid
- NextEra Energy
- NiSource
- NorthWestern Energy
- OGE Energy Corporation
- Ohio Valley Electric Corporation
- Oncor
- Otter Tail Corporation
- PG&E Corporation
- Pinnacle West Capital Corporation
- PNM Resources
- Puget Sound Energy
- San Diego Gas & Electric Company
- Sharyland Utilities
- Southern Company
- Tampa Electric an Emera Company
- UGI Corporation
- Until Corporation
- UNS Energy Corporation
- Upper Peninsula Power Company
- WEC Energy Group
- Xcel Energy

About the Institute for Electric Innovation

The Institute for Electric Innovation focuses on advancing the adoption and application of new technologies that will strengthen and transform the energy grid. IEI's members are the investor-owned electric companies that represent about 70 percent of the U.S. electric power industry. The membership is committed to an affordable, reliable, secure, and clean energy future.

IEI promotes the sharing of information, ideas, and experiences among regulators, policymakers, technology companies, thought leaders, and the electric power industry. IEI also identifies policies that support the business case for the adoption of cost-effective technologies.

IEI is governed by a Management Committee of electric industry Chief Executive Officers. In addition, IEI has a select group of technology companies on its Technology Partner Roundtable.

About the Edison Foundation

The Edison Foundation is a 501(c)(3) charitable organization dedicated to bringing the benefits of electricity to families, businesses, and industries worldwide. Furthering Thomas Alva Edison's spirit of invention, the Foundation works to encourage a greater understanding of the production, delivery, and use of electric power to foster economic progress; to ensure a safe and clean environment; and to improve the quality of life for all people. The Edison Foundation provides knowledge, insight, and leadership to achieve its goals through research, conferences, grants, and other outreach activities.



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