

# BEST PRACTICES FOR ENERGY STORAGE DEPLOYMENT

**February 24-25, 2021**  
**Online | Central Time**

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**FUNDAMENTALS OF BATTERY**

February 23, 2021 | Online

**EUCI ONLINE CONFERENCE**

EUCI is pleased to offer this virtual conference on its online interactive platform. Enjoy a valuable learning experience with a smaller impact on your time and budget. You will gain new knowledge, skills, and hands-on experience in from the comfort of your remote location.



*“Came in with a passing knowledge of utility scale energy storage, came out feeling well-informed and ready to participate in the exponential growth of this asset base.”*

Director, MCC



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## OVERVIEW

Energy storage has become big news and a valuable contributor to the energy sector. Advanced energy storage technologies have matured rapidly in recent years and installations are quickly gaining momentum in states across the country. The interest in energy storage is expanding for number of reasons including: solving the intermittency problem as utilities continue to add renewables to the grid and evolving technology now gives consumers more control of their energy use, which has spawned companies to take advantage of this. Companies across North America continue to pursue market and regulatory changes to integrate more storage.

In 2019, nearly 50 US electric power companies committed to significant carbon reduction goals including Duke Energy, Arizona Public Service (APS) and others. To achieve these goals, power companies and utilities will increasingly rely on energy storage to assuage volatility in wholesale markets as well as support additional renewables on the grid. This conference will provide an overview of regulatory challenges, pricing and policy, and utility case studies. The materials will provide valuable information on a full spectrum of applications for utilities, regulatory agencies, project developers, private investors, and wholesale market participants

## LEARNING OUTCOMES

- Review a U.S. policy update on energy storage and grid modernization across the country
- Discuss updates energy storage in the ISO/RTO markets
- Examine regulatory approaches to driving the increase in energy storage
- Discuss the role of regulators at federal and state levels in promoting energy storage
- Review some of the emerging legal issues associated with energy storage
- Review emerging use cases in various markets



***“EUCI ran a terrific conference. Presentations were very technical.”***

Managing Partner, Appian Way Energy Partners



***“EUCI offers a careful balance of continuing education, thought-provoking discussion, and networking.”***

SVP, Regulatory & External Affairs, Baltimore Gas and Electric

# AGENDA

WEDNESDAY, FEBRUARY 24, 2021 - CENTRAL TIME

<b>8:45 – 9:00 am</b>	<b>Log In</b>
<b>9:00 am – 4:30 pm</b>	<b>Conference Timing</b>
<b>12:15 – 1:00 pm</b>	<b>Lunch Break</b>
<b>9:00 – 9:15 am</b>	<b>Opening Announcements</b>
<b>9:15 – 10:00 am</b>	<p><b>Opening Address: U.S. Policy Update: Grid Modernization and Energy Storage</b>            States across the country are embarking on efforts to modernize the electric grid, including efforts to better consider the use of energy storage. This session will review recent policy action across the country related to energy storage and grid modernization  <i>Autumn Proudlove, Senior Policy Program Director, NC Clean Energy Technology Center</i></p>
<b>10:00 – 10:10</b>	<b>Break</b>
<b>10:10 am – 4:30 pm</b>	<p><b>Session I: Utility Case Studies</b>  <i>(includes breaks and lunch break)</i></p> <p><b>Session I Overview:</b>            Energy storage systems support several electric utility use cases, including grid support, outage mitigation, capital deferral, and improved services to end users. Energy storage is the ultimate in malleable grid resources, acting as generation, load, and a grid reliability resource. This presents unique planning challenges to utilities and requires significant rethinking of planning processes to capture the full resource value for utilities' customers and shareholders. This session will explore the stackable benefit streams of storage, and how planning must evolve to appropriately value the system and ratepayer benefits that storage can provide.</p> <p><b>Presentations:</b></p> <p><b>Batteries, the New DER Changing the Grid</b>            This session will share updates on some of the current constraints/issues Salt River Project (SRP) is facing. The presentation will also provide updates on what changes SRP has made to its interconnection process to accommodate for batteries, and what the utility is seeing with respect to its battery incentive program.  <i>Dominick Daidone, Senior Sustainability Program Strategist, Salt River Project</i></p> <p><b>Major Energy Storage Projects at Con Edison</b>            To prepare for the incoming wave of renewable power and the storage that will be necessary to support it, Con Edison is in the middle of several major projects that will impact the future of the state's distributed grid. In this session, learn how the utility is doing its part to help New York achieve one of the most aggressive energy storage targets in the country.  <i>Adrienne Lalle, Utility of the Future, Con Edison</i></p> <p><b>Expanding Solar + Storage at Cobb Electric Membership Corp. (Cobb EMC)</b>            Cobb EMC continues to diversify their energy portfolio by getting power from a variety of sources, which enables the company to keep costs low for members. This presentation will include an update on the company's campus solar and battery storage project that is helping Cobb EMC learn how to better support members through clean, renewable energy.  <i>Tim Jarrell, VP, Power Supply and Strategic Planning, Cobb EMC</i></p>

# AGENDA

WEDNESDAY, FEBRUARY 24, 2021 - CENTRAL TIME (CONTINUED)

## **Co-op Energy Storage Development**

Electric cooperatives have a long history of managing demand through controllable hot water heaters. As prices continue to decline for battery systems, electric cooperatives are exploring various new use-cases, ranging from advanced microgrid developments, renewable energy integration and infrastructure deferral, to community storage solutions for peak demand reduction. This segment will provide an overview of the latest efforts and the impacts they are having on the service territories of these coops.

**Jan Ahlen, Director Energy Solutions, National Rural Electric Association**

## **Duke Energy Plans for Battery Energy Storage to Support Climate Goals**

Duke Energy has adopted a more aggressive goal around climate strategy that calls for 50% reduction in CO2 emissions by 2030 and net zero carbon emissions by 2050. This presentation will share the important role that battery energy storage will play for the company to reach its emissions reduction goals, and the current development work underway to enable a more distributed energy future.

**Laurel Meeks, Energy Storage Business Development, Duke Energy**

## **Virtual Power Plants at SCE**

As SCE continues to decarbonize the power grid it is essential that the company finds innovative solutions to enable clean, affordable, and reliable service. In this session, learn how the virtual power plant pilot program at SCE will help the company understand how home battery systems can perform like single large capacity energy sources to benefit all customers.

**Jessica Lim, Principal Manager, Product Management, CP&S, Southern California Edison**

## **Undergoing Massive Changes at Utilities**

The next decade is crucial in setting the climate change trajectory for the planet. The electric utility will change more in the next 10 years than it has in the last century. In this session, hear how Burbank Water & Power is working on everything from synergies among renewables (such as evening-blowing wind that complements the sun's daily cycle) to "green" hydrogen production and advanced power generation to energy storage technologies from batteries to compressed air energy storage.

**Lincoln Blevens, Interim General Manager, Burbank Water and Power**

**3:30 – 4:30 pm**

## **Utility Session Recap Panel Discussion**

This closing panel discussion for the first day will allow symposium attendees to ask specific questions of the utility session presenters for discussion related to this session and their presentations.

**Dominick Daidone, Senior Sustainability Program Strategist, Salt River Project**

**Adrienne Lalle, Utility of the Future, Con Edison**

**Tim Jarrell, VP, Power Supply and Strategic Planning, Cobb EMC**

**Laurel Meeks, Energy Storage Business Development, Duke Energy**

**Jan Ahlen, Director Energy Solutions, National Rural Electric Association**

**Lincoln Blevens, Interim General Manager, Burbank Water and Power**

**Jessica Lim, Principal Manager, Product Management, CP&S, Southern California Edison**

**4:30 pm**

**Day One Concludes**

# AGENDA

THURSDAY, FEBRUARY 25, 2021 - CENTRAL TIME

8:45 – 9:00 am

**Log In**

9:00 am – 12:00 pm

**Session II: Regulatory/Legal Perspectives and Market Updates**

*(includes breaks)*

**Session II Overview:**

The U.S. energy storage market has grown significantly since FERC first allowed non-generator resources to provide ancillary services to the grid. Energy storage resources are now technologically advanced and can participate in markets other than Frequency Regulation. FERC has agreed and issued Orders that acknowledge the technological advances and recognize the increased role that energy storage should play in the grid markets. The barriers have been removed for energy storage to provide all market services, including capacity, energy and ancillary services markets operated by RTOs/ISOs. Many of the states have also recognized the importance of energy storage and have issued regulations that, among other things, mandate procurement targets and are working with grid operators to achieve these targets

**Presentations:**

**Updates on Energy Storage in the ISO/RTO Markets**

How storage is treated by U.S. organized wholesale markets is of critical importance to the future of the sector and how storage can benefit the grid. This session will share how approaches to energy storage market design have varied regionally, and what ISOs & RTOs and FERC have done to enable market participation by energy storage.

***John Fernandes, Senior Consultant – Emerging Technologies, Customized Energy Solutions (CES)***

**Regulatory Approaches to Driving Energy Storage**

In competitive regional markets, has issued several orders in recent years that collectively aim to align market structures with the capabilities of energy storage. In this session, Kevin Hernandez with ScottMadden will talk about some of the recent federal orders (FERC 841, 2222) and state policy initiatives including: NY, CA, NJ, MN and their impact on the energy storage market.

***Kevin Hernandez, Partner, ScottMadden***

**Emerging Legal Issues for Energy Storage**

Although growth in energy storage technologies is substantial, it is uneven and intermittent across the country in part because of a lack of legal uniformity. State governments are inconsistent and unpredictable in their renewable energy laws, and the federal government has been remiss to implement nationwide uniform regulations. In this session, learn about the current state/federal jurisdictional breakdown as applied to storage.

***Andrew O. Kaplan, Partner, Pierce Atwood LLP***

**Renewable Energy Initiatives in Georgia**

The State of Georgia is positioned to become a leader in battery energy storage in the Southeast. The Georgia PSC approved Georgia Powers plan to own and operate 80MW of battery energy storage as part of achieving renewable energy goals. In this session, the manager of the Georgia Commission's Energy Renewable Energy Group will take a comprehensive look at the state of Georgia and its recent growth in energy storage and renewable energy.

***Jamie Barber, Energy Efficiency and Renewable Energy Manager, Georgia Public Service Commission***

12:00 pm

**Conference Adjourns**

# FUNDAMENTALS OF BATTERY STORAGE

February 23, 2021  
Online | Central Time



*"Excellent course covering technology, markets, and associated trends of battery storage."*

Project Manager, US DOE

**RELATED EVENT:**

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Battery storage is a technology whose time has arrived in many markets across the globe. Battery energy storage systems (BESS) can be used for a variety of applications, including frequency regulation, demand response, transmission and distribution infrastructure deferral, integration of renewable energy, and microgrids. Different battery technologies can enable different applications that can provide various benefits to utility services, Independent System Operator (ISO) services, Regional Transmission Organization (RTO) services, and consumer services.

Thanks to performance improvements and cost declines, battery storage is now a force to be reckoned with. The advent of economical battery energy storage systems (BESS) at scale can now be a major contributor to the balancing process. This course will give an in-depth overview of battery storage, including the history, the growing need for storage, types of energy storage, benefits and the potential for storage. In addition, it will address battery storage applications and market dynamics as well as decarbonization and the future of energy storage.



## LEARNING OUTCOMES

- Review the basics of energy storage
- Provide an overview of battery storage
- Review battery storage applications and the market dynamics
- Evaluate regulatory and planning best practices for storage
- Review decarbonization for energy storage
- Discuss the future of battery storage

## INSTRUCTORS

- **Joe Fox**, Director, Transmission and Distribution, Siemens
- **Matt Heimann**, Power System Development, West Region, Siemens Energy, Inc.
- **John Fernandes**, Senior Consultant – Emerging Technologies, Customized Energy Solutions (CES)

## INSTRUCTIONAL METHODS

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Case studies and PowerPoint presentations will be used in this program.

## ONLINE COURSE DELIVERY & PARTICIPATION DETAILS

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We will be using Microsoft Teams to facilitate your participation in the upcoming event. You do not need to have an existing Teams account in order to participate in the broadcast – the course will play in your browser and you will have the option of using a microphone to speak with the room and ask questions, or type any questions in via the chat window and our on-site representative will relay your question to the instructor.

- You will receive a meeting invitation which will include a link to join the meeting.
- Separate meeting invitations will be sent for the morning and afternoon sessions of the course.
  - o You will need to join the appropriate meeting at the appropriate time.
- If you are using a microphone, please ensure that it is muted until such time as you need to ask a question.
- The remote meeting connection will be open approximately 30 minutes before the start of the course. We encourage you to connect as early as possible in case you experience any unforeseen problems.

## IACET CREDITS

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EUCI has been accredited as an Authorized Provider by the International Association for Continuing Education and Training (IACET). In obtaining this accreditation, EUCI has demonstrated that it complies with the ANSI/IACET Standard which is recognized internationally as a standard of good practice. As a result of their Authorized Provider status, EUCI is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standard.

**EUCI is authorized by IACET to offer 0.9 CEUs for the conference.**

## REQUIREMENTS FOR SUCCESSFUL COMPLETION

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Participants must login each day and be in attendance for the entirety of the conference to be eligible for continuing education credit.

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**Online Course Delivery & Participation Details**

See page 6 for information

*Recording: Each event is recorded, and will be available for three business days. For registrants only.*

How did you hear about this event? (direct e-mail, colleague, speaker(s), etc.)

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**CREDIT CARD INFORMATION**

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Billing City

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**OR** Enclosed is a check for \$ \_\_\_\_\_ to cover \_\_\_\_\_ registrations.

**Substitutions & Cancellations**

Your registration may be transferred to a member of your organization up to 24 hours in advance of the event. Cancellations must be received on or before February 5, 2021 in order to be refunded and will be subject to a US \$195.00 processing fee per registrant. No refunds will be made after this date. Cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI event. This credit will be good for six months from the cancellation date. In the event of non-attendance, all registration fees will be forfeited. In case of course cancellation, EUCI's liability is limited to refund of the event registration fee only. For more information regarding administrative policies, such as complaints and refunds, please contact our offices. EUCI reserves the right to alter this program without prior notice.