

NON-BATTERY ENERGY STORAGE

April 29-30, 2021
Online | Central Time



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

SVP, Regulatory & External Affairs,
Baltimore Gas and Electric



Due to growing concerns about the environmental impacts of fossil fuels and the capacity and resilience of energy grids around the world, stakeholders continue to turn their attention to various energy storage solutions. Energy storage is not a new concept. Batteries have been used since the early 1800s and pumped-storage hydropower has been operating in the United States since the 1920s. But the demand for a more dynamic and cleaner grid has led to a significant increase in the construction of new energy storage projects, and to the development of new or better energy storage solutions.

The storage developments in the past two years have shown that battery storage is not the only game in town as there are many ways of storing energy. As a matter of fact, globally 99% of energy storage is non-battery and 97% in the U.S. is non-battery. Cost projections for non-battery storage are starting to be made public, and these non-battery technologies will be gaining a lot more attention in the years ahead. This course will show how big of an impact non-battery storage has and will have in the future. The importance of non-battery storage for power providers, grid operators, developers, energy-storage integrators, and more cannot be stressed enough.



EUCI is authorized by IACET to offer 1.0 CEUs for the course. Participants must log on each day and be in attendance for the entirety of the course to be eligible for continuing education credit.

LEARNING OUTCOMES

- Discuss how energy storage has become a major focus of attention
- Review the global market share for each type of storage
- Review the number of cycles for different types of energy storage and their ramp rates
- Review which energy storage systems are the most efficient for a decarbonized future
- Discuss O&M costs and initial capital costs of energy storage
- Examine the relationship between energy storage and capacity
- Review energy storage hazards, mitigation and insurance
- Discuss the characteristics of pumped hydro, air storage, mass storage, thermal storage, hydrogen, super capacitors, and more
- Review the different types of pumped hydro, air storage, mass storage, thermal storage, hydrogen, super capacitors, and more

INSTRUCTOR

Doug Houseman, *Utility Modernization Lead, Burns & McDonnell*

To Register Click Here, or

Mail Directly To:

PMA Conference Management
405 Highview Rd
Englewood NJ 07631
201 871 0474
Fax 253 663 7224
register@pmaconference.com

ONLINE DELIVERY & PARTICIPATION DETAILS

EUCI will use Microsoft Teams to facilitate participation in the upcoming event. Attendees do not need to have an existing Teams account to participate in the broadcast. The course will play in attendee's browser. When attendees sign on, their microphones are typically muted. Attendees should keep their mic muted until such time as it's needed to ask a question. During the event, participants will have the option of using a microphone to speak with the room and ask questions, or type in any questions via the chat window and our online administrator will relay your question to the instructor.

- Each attendee will receive an event invitation by e-mail, which will include one link to sign on for each half-day of the event (i.e., three links for a 1 ½ day event). The appropriate link must be used to join each half-day event segment at the appropriate time.
- The remote meeting connection will open approximately 30 minutes before the start of the course. We encourage attendees to connect as early as possible in case of unforeseen problems.

NON-BATTERY ENERGY STORAGE ONLINE COURSE:
APRIL 22-23, 2021: US \$1,195 (Single Connection)

PACK OF 5 CONNECTIONS: US \$4,780 (20% Discount)

PACK OF 10 CONNECTIONS: US \$8,365 (30% Discount)

PACK OF 20 CONNECTIONS: US \$14,340 (40% Discount)

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.)

Print Name

Job Title

Company

Address

City

State/Province

Zip/Postal Code

Country

Phone

Email

CREDIT CARD INFORMATION

Name on Card

Billing Address

Account Number

Billing City

Billing State

Exp. Date

Security Code (last 3 digits on the back of Visa and MC or 4 digits on front of AmEx)

Billing Zip Code/Postal Code

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 March 26, 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.