EVENT GUIDE

Sept. 21-23, 2022 | Expo: September 21 & 22
Georgia World Congress Center | Atlanta, GA | Hall C1
STATE OF GEORGIA
OFFICE OF THE GOVERNOR
ATLANTA 30334-0900

Brian P. Kemp
GOVERNOR

September 21, 2022

To: The 2022 AEE World Energy Conference and Expo

GREETINGS:

On behalf of the state of Georgia, allow me to extend my warmest regards to you as you host and participate in your event.

Please allow me also to welcome your distinguished guests, honorees, their families, and other attendees.

I send my best wishes for a productive event!

Sincerely,

Governor Brian P. Kemp
Opening Session
9:00 am - 10:50 am | September 21, 2022
Georgia World Congress Center | Georgia Ballroom 2

Featured Keynote Speakers

Opening Session Chair
Eric Oliver, PE, CEM, LEED AP
Director of Energy Solutions
2RW Consultants

Creating a Lasting Impact: 45 Years in Review
Bill Kent, CEM
Executive Director
Association of Energy Engineers
9:00 - 9:15 am

Welcome to Atlanta
Andre Dickens
Mayor
City of Atlanta
9:15 - 9:25 am

My Journey with AEE
Fotouh Al-Ragom, Ph.D., CEM, CSDP, CEA
Kuwait Institute for Scientific Research
9:25 - 9:40 am

Energy for Today, A Plan for Tomorrow
Tom Fanning
Southern Company
Chairman, President & CEO
9:40 - 10:05 am

Climate Justice: Hope, Resilience & the Fight for a Sustainable Future
Mary Robinson
First Woman President of Ireland & President of the Mary Robinson Foundation, Climate Justice
10:05 - 10:50 am

Expo Opens at 10:30 am in Hall C1

CONFERENCE SCHEDULE ➤ SPECIAL EVENTS ➤ EXPO & EXHIBITORS
A low-carbon, ultra-efficient, multimode cooling system for all climates

An energy performance analysis solution to achieve carbon neutral buildings

A cutting-edge tool measuring the efficiency and energy performance of cooling plants

A world-class research institute incubating green solutions to support a sustainable built environment
**Conference Special Events**

**Tuesday | Sept. 20**

- **12:30 - 2:30 pm | Annual AEE Event | Georgia Ballroom 3**
  Chapter Leadership Meeting
- **3:00 - 5:30 pm | Annual AEE Event | Georgia Ballroom 1**
  AEE Regional Awards Ceremony
- **6:30 - 10:00 pm | Networking | World of Coca Cola Museum**
  Legends in Energy Reception

**Wednesday | Sept. 21**

- **7:30 - 8:30 am | Networking | Georgia Ballroom 1**
  Free Innovative Technology Breakfast
  Learn about the latest technologies, products, services and solutions that are available now over a complimentary hot breakfast.

**Innovative Technology Breakfast Speakers**

- **7:35 am | Green Building Holdings/SIG**
  Connor Offutt, President of Aetos Imaging.
  Visit their Booth #336.
- **7:45 am | Aeroseal**
  Visit their Booth #413.
- **7:55 am | Better Plants**
  John O’Neill, Better Plants Program Manager.
  Visit their Booth #435.
- **8:10 am | EMPEQ**
  Herbert Dwyer, Co-founder and CEO.
  Visit their Booth #409.

**Conference Sessions & Panel**

**Technical Sessions**

- Wed. 2:30 - 4:30 pm
- Thur. 9:00 - 11:00 am
- Fri. 9:00 - 11:00 am

**Panel Discussion**

- Thur. 2:30 - 4:30 pm

**Supporting Partners and Leaders**

**Utility Management Services, Inc.**

**Your Savings Specialists**

Stop by **Booth #306** to learn more about our utility bill audits and enter to win a Visa Gift Card!

---

1. Event, food and beverage is included with paid conference registration. Your meal tickets are listed on the back of your badge, which will be scanned at the event.
SOLUTIONS FOR THE BUILDING ENVELOPE

KNOWN WINDOW CHALLENGES

• SUMMER HEAT GAIN
• WINTER HEAT LOSS
• SAFETY & SECURITY
• UNFAVORABLE ROI FOR REPLACEMENT WINDOWS

XPEL WINDOW FILM SOLUTIONS

• REDUCE SOLAR HEAT GAIN BY UP TO 91%
• INCREASE HEAT RETENTION BY UP TO 39%
• INCREASE GLASS RETENTION IN BREAKAGE
• PROVIDE GREAT PAYBACK (ENERGY MODELING AVAILABLE)

See how XPEL can help reduce your energy costs:
Email: buildings@xpel.com or call 1 (800) 447-9928
**CWEEL & Keynote Events**

**Thursday | Sept. 22**

7:30 - 9:00 am | Networking | Georgia Ballroom 1

**CWEEL Breakfast and Keynote Presentation**

Join us for a keynote presentation by Lara Krecic.

**CWEEL Breakfast Sponsors**

![CWEEL Logo]

[Image: CWEEL, Council on Women in Energy & Environmental Leadership]

[Lara Krecic]

**VP Southwest District, Energy Systems, DNV Energy Services USA Inc.**

12:00 - 1:30 pm | Networking | Georgia Ballroom 1

**AEE Atlanta Chapter Luncheon**

Join us for a keynote presentation by Dr. Marilyn A. Brown, Ph.D., CEM, NAE, NAS, Regents & Brook Byers Professor of Sustainable Systems at Joint Faculty with Oak Ridge National Laboratory & School of Public Policy at the Georgia Institute of Technology.

5:00 - 6:30 pm | Networking | Outside Georgia Ballroom

**CWEEL Reception**

Enjoy drinks and Hors d’oeuvres while networking and supporting the CWEEL Scholarship Program.

**CWEEL Reception Sponsors**

![CWEEL Logo]

[Image: CWEEL, Council on Women in Energy & Environmental Leadership]

![ConEdison Logo]

[Image: ConEdison, Clean Energy Businesses]

**Weekly in Expo Hall C1**

**Networking Luncheons**

- **Wednesday, Sept. 21 | 12:00 - 1:00 pm**
- **Thursday, Sept. 22 | 12:00 - 1:00 pm**

Daily luncheons bring together conference attendees, exhibitors, expo visitors, conference speakers and training program attendees.

**Coffee Station**

Stop by the expo hall at Booth #331 to kick start your day or refresh mid-morning. Sponsored by Yardi.

**Friday | Sept. 23**

11:15 am - 1:00 pm | Annual AEE Event | Georgia Ballroom 2

**Keynote Luncheon**

Join conference attendees as Bill Nussey and Dr. Henry McKoy close the event with their keynote speeches.

*Photo opportunity following luncheon*

**Bill Nussey**

Climate Tech Investor & Author of Freeing Energy

**Dr. Henry McKoy**

Director of the Office of State & Community Energy Programs (SCEP), U.S. Department of Energy

**2022 Hall of Fame Inductees**

Held during the AEE World closing keynote luncheon*. The Energy Managers Hall of Fame is the highest honor bestowed by AEE, recognizing individuals for their lifetime dedication in promoting the practices and principles of energy management.

1. Event, food and beverage is included with paid conference registration.
2. Refreshments are included for CWEEL members, $50 for all others.
3. Lunch included*

**Poster Sessions**

Booth #110

These presentations enable exhibit hall visitors and conference attendees to get face-to-face with the presenter on an informal basis to get in-depth information on new projects, data, and case studies.

**Exhibitor Forums**

Exhibitors provide brief presentations about their new technologies, case studies or developments that differentiate them in the marketplace.

[QR Code: Connect with Us]

[Image: aeecenter.org]
Yardi® Pulse Suite helps you benchmark and optimize your utility spend as you reduce your environmental impact. Use automated solutions to make utility payments, as well as manage costs, consumption and ESG reporting.

- Automate invoice processing
- Simplify portfolio benchmarking
- Improve sustainability

Yardi® Pulse Suite provides tools to:

- Automate invoice processing
- Simplify portfolio benchmarking
- Improve sustainability

Learn more at yardi.com/pulse

©2022 Yardi Systems, Inc. All Rights Reserved. Yardi, the Yardi logo, and all Yardi product names are trademarks of Yardi Systems, Inc.
### Conference Overview & Planner

<table>
<thead>
<tr>
<th>Wednesday, September 21</th>
<th>Thursday, September 22</th>
<th>Friday, September 23</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Day - Time</strong></td>
<td><strong>Conference Track</strong></td>
<td><strong>Location</strong></td>
</tr>
<tr>
<td>Wed. 2:30 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed. 3:00 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed. 3:30 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed. 4:00 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Th. 9:00 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Th. 9:30 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Th. 10:00 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Th. 10:30 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri. 9:00 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri. 9:30 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri. 10:00 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri. 10:30 AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRACK A</td>
<td>TRACK B</td>
<td>TRACK C</td>
</tr>
<tr>
<td>---------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>SESSION A1</td>
<td>SESSION B1</td>
<td>SESSION C1</td>
</tr>
<tr>
<td><strong>DOD &amp; FEDERAL INITIATIVES</strong></td>
<td><strong>DECARBONIZATION OF THE URBAN ENVIRONMENT</strong></td>
<td><strong>METERING</strong></td>
</tr>
<tr>
<td><strong>CHAIR: Asad Gilani, CEM, BEP, CAP, Senior Management Analyst, Department of Veterans Affairs</strong></td>
<td><strong>CHAIR: Catherine Luthin, MBA, President, Luthin Strategy</strong></td>
<td><strong>CHAIR: Maryanne McGowan, CPA, CEM, Vice President, Strategic Development, The Utilities Group</strong></td>
</tr>
<tr>
<td><strong>2:30 - 3:00 PM</strong> Decarbonization of the Urban Environment</td>
<td><strong>2:30 - 3:00 PM</strong> Utility &amp; Sub-Metering - The Value of the Data</td>
<td><strong>2:30 - 3:00 PM</strong> Compliance &amp; ESG &amp; Procurement, Oh My! Are You Fully Utilizing Your Submeters?</td>
</tr>
<tr>
<td>Michael J Rohan, BE, MBA, CHFM, Corporate Director, Energy, Engineering &amp; Infrastructure, Northwell Health</td>
<td>Michael Dalton, CEM, CPQ, Senior Engineer, Georgia Power Company Metering Services</td>
<td>Christine Cannon, CEM Solutions Consultant, Yard Energy</td>
</tr>
<tr>
<td><strong>3:30 - 4:00 PM</strong> Building Carbon Capture System</td>
<td><strong>3:30 - 4:00 PM</strong> The Art &amp; Science of Submetering</td>
<td><strong>3:30 - 4:00 PM</strong> Variable Flow Chilled Water Systems 101</td>
</tr>
<tr>
<td><strong>4:00 - 4:30 PM</strong> Decarbonization Training for Facility Managers</td>
<td><strong>4:00 - 4:30 PM</strong> The Fundamentals of M&amp;V</td>
<td><strong>4:00 - 4:30 PM</strong> Motors and VFDs 101</td>
</tr>
<tr>
<td>Jillian Winterkorn, CEM, LEED AP BD, WELL AP, Energi Efficiency Consultant, Eversource</td>
<td>Leon Murray</td>
<td>Thomas Sherman, CEM, CEA, CDMS, CCASS, President, Sustainable Energy Services, Inc.</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>SESSION H1</td>
<td><strong>EPA: ENERGY STRATEGY FOR THE NEXT 10 YEARS</strong></td>
<td>SESSION I1</td>
</tr>
<tr>
<td>2:30 - 3:00PM</td>
<td><strong>Idle Machine Automated Control</strong></td>
<td>2:30 - 3:00PM</td>
</tr>
<tr>
<td>Mohammed Karoush, Sustainability Engineer, Graham Packaging</td>
<td><strong>Erin Zayko, Environmental Stewardship Engineer, Lockheed Martin Corporation</strong></td>
<td><strong>Guy Frankenfield, PE, Energy Market Manager, DN Tanks</strong></td>
</tr>
<tr>
<td>3:00 - 3:30PM</td>
<td><strong>Lockheed Martin's Energy Playbook</strong></td>
<td>3:00 - 3:00PM</td>
</tr>
<tr>
<td>Dwayne Kubacki, CEM, Senior Facility Engineer, Energy Manager, Master Electrician</td>
<td><strong>Erin Zayko, Environmental Stewardship Engineer, Lockheed Martin Corporation</strong></td>
<td><strong>Manish Murudkar, CEM, MBA, Director, DER Strategy, Cobb EMC</strong></td>
</tr>
<tr>
<td>4:00 - 4:30PM</td>
<td><strong>Energy Auditing Tools for Energy Auditors</strong></td>
<td>4:00 - 4:30PM</td>
</tr>
<tr>
<td>Edwin Willhite, CEM, Regional Facilities Leader, Schneider Electric</td>
<td><strong>Spectrum</strong></td>
<td><strong>M&amp;V Senior Facility Engineer, Eversource</strong></td>
</tr>
</tbody>
</table>

Speakers are subject to change and the most up to date information can be found online.
Visit the Expo Hall C1 | Event Exhibitors

See the Inside Back Cover for an Exhibitor List, Booth Numbers and Expo Floorplan

Logos of various companies and organizations are displayed, including Abraxas, ACCUenergy, AEROSWEL, ALTA Enterprises, AQUIS, Better Plants, Brainbox AI, Cam Technologies, Carlo Gavazzi, Creative Solar USA, Crom, CWEEL, Demtroys, ElectraTherm, Empeq, DN Tanks, EnergyCap, EWE, Energy Controls, GARD, Granite, SIG, Honeywell, and the Hydraulic Institute.
<table>
<thead>
<tr>
<th>TRACK A</th>
<th>TRACK B</th>
<th>TRACK C</th>
<th>TRACK D</th>
<th>TRACK E</th>
<th>TRACK F</th>
<th>TRACK G</th>
</tr>
</thead>
<tbody>
<tr>
<td>SESSION A2</td>
<td>SESSION B2</td>
<td>SESSION C2</td>
<td>SESSION D2</td>
<td>SESSION E2</td>
<td>SESSION F2</td>
<td>SESSION G2</td>
</tr>
<tr>
<td>INTEGRATING ENERGY SECURITY</td>
<td>UTILITY &amp; ELECTRIC RATES</td>
<td>COMBINED HEAT &amp; POWER</td>
<td>ENERGY MANAGEMENT 102</td>
<td>ENVIRONMENTAL, SOCIAL, &amp; GOVERNANCE</td>
<td>SMART CITIES: CREATING CRITICAL CITY SCALE INFRASTRUCTURE</td>
<td>ENERGY/ CARBONMANAGEMENT IN AN INDUSTRIAL SETTING</td>
</tr>
</tbody>
</table>

**Chair:** Keith Benson, Director, Energy, Navy Installations Command  
**9:00 - 9:30AM**  
DoD ESTCP - New R&D & Cybersecurity Technology Overview  
Colin Dunn, CEM, PE, LEED AP, PMP, Chief Executive Officer  
Fend Incorporated  
**9:30 - 10:00AM**  
Steven Vickery, PE, CEM, CEA, Regional Energy Program Manager, Navy Region Southeast N44  
**10:00 - 10:30AM**  
Energy Security  
Shawn Bilak, Security Risk and Compliance Analyst Specialist, Southern Company  
**10:30 - 11:00AM**  
Derek Harp  

---

**Chair:** Brian Coughlan, CEM, BEP, CEP, CDSM, President, Utility Management Services, Inc.  
**9:00 - 9:30AM**  
Rate Comprehension for Projects & Savings  
Miles Smith, CEM, CEA, CMVP, Sr. Energy Project Manager, CBRE @ Northern VA Community College  
**9:30 - 10:00AM**  
Curtailable/Interruptible Rates  
Hunter Wilkinson, B.S. Statistics, BEP-IT, Analyst, Utility Management Services  
**10:00 - 10:30AM**  
Real Time Pricing Rates  
Tony Castro, Pricing Administration Manager, Southern Company  
**10:30 - 11:00AM**  
Solar Generation & Utility Rate Optimization  
Daniel Uribe, Rate Manager, Cherry Street Energy  

---

**Chair:** Buster Barksdale, CEM, CSDP, CEO, CoGen Power Solutions  
**9:00 - 9:30AM**  
Organic Rankine Cycle in CHP Applications Company: ElectraTherm  
Fariha Amin, Sales Manager North America  
**9:30 - 10:00AM**  
Building Resiliency Into Operational Improvements with Combined Heat & Power (CHP)  
Edward Musz, Manager, Pepco Holdings  
**10:00 - 11:00AM**  
Panel Discussion and Q&A  

---

**Chair:** Brian Clippinger, CEM, CMVP, LEED AP, EIT, Corporate Director - Measurement and Verification, Energy Systems Group  
**9:00 - 9:30AM**  
Renewables 101  
Jessica Harris, CBCP, CEM, MFBA, NABCEP, PV Designer, President, Harris Energy Solutions, LLC  
**9:30 - 10:00AM**  
Geothermal 101  
John Ciocavaco, President, Aztech Geothermal, LLC  
**10:00 - 10:30AM**  
EV Charging: The Next Hot ECM  
Lonne Russell, CEM, CLEP, REP, Senior Sales Manager, Autel  
**10:30 - 11:00AM**  
Heat Pump Water Heater Basics 101  
DeWayne Jenkins, CEM, HER, REA, Residential, Commercial & Industrial Support Specialist, Alabama Power Company  
**10:30 - 11:00AM**  
Turning Energy Use Data into Carbon/GHG Performance Tracking - The Role of Data in Achieving ESG Goals  
John Petze, Co-Founder, COO, SkyFoundry  

---

**Chair:** Fotouh Al-Ragom, PhD, Founder, COO, Performance Engineering  
**10:30 - 11:00AM**  
Maximizing ESG Using Energy Benchmarking & Related Data Sources  
Ankita Gupta, PE, CEM, Senior Energy Engineer, Yardi Systems Inc.  
**10:00 - 10:30AM**  
Maximizing ESG Data Coverage for Midstream Industries  
Sowmitra “Sam” Ghosh, Engineer, Kinder Morgan  
**10:30 - 11:00AM**  
Building the Human Infrastructure for Transforming Cities  
Chad Richert, Henry Ford College and Herb S Innock, Director of Sustainability, Sheridan College  
**10:30 - 11:00AM**  
Decarbonizing Our Transit Systems - The Road to Zero Carbon  
Bruno Fiorentino, VP Facilities & Infrastructure, Burns Energy  

---

**Chair:** Andrew Penner, P.Eng., M.Eng., CEM, LEED AP, Senior Manager, Energy and Professional Services, Major Projects, OPDS Brookfield Global Integrated Solutions (BGIS)  
**9:00 - 9:30AM**  
The Role of District Energy in Decarbonizing Heating & Cooling in Cities  
Dr. Stefan Blum and Dr. Timothy Harris, PE, Senior Energy Engineer, Advanced Energy  
**9:30 - 10:00AM**  
Reducing Scope 1 & Scope 2 Emissions Through Energy Auditing  
Jessica Allen, PE, Energy Engineer, Energy Projects  
**10:00 - 10:30AM**  
Decarbonizing the Built Environment  
Nicolas Bosse, Chief Engineer, Servicios de Energía  
**9:00 - 9:30AM**  
Auditing & Related Data Sources  
Trainer, Advisor, CEMi CMVP, Energy Services, NGS  
**10:30 - 11:00AM**  
Motor & VFDs - How They Work, Why They Fail, & What You Can Do  
Thomas Sherman, CEM, CDSM, CASS, President, Sustainable Energy Services, Inc.  
**10:30 - 11:00AM**  
Driving Decarbonization with an ISO 50001 Energy Management System  
Ethan Rogers, Technology Manager, US Department of Energy
<table>
<thead>
<tr>
<th>TRACK H</th>
<th>TRACK I</th>
<th>TRACK J</th>
<th>TRACK K</th>
<th>TRACK L</th>
<th>TRACK M</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROOM: C106</td>
<td>ROOM: C107</td>
<td>ROOM: C108</td>
<td>ROOM: C109</td>
<td>AUDITORIUM 102</td>
<td>ROOM: C110</td>
</tr>
<tr>
<td>SESSION H2</td>
<td>SESSION I2</td>
<td>SESSION J2</td>
<td>SESSION K2</td>
<td>HEALTHY &amp; EFFICIENT BUILDINGS</td>
<td>ENERGY MANAGEMENT AROUND THE WORLD</td>
</tr>
<tr>
<td>EPA: ENERGY EFFICIENCY FOR DECARBONIZATION</td>
<td>THE BETTER PLANTS PROGRAM - EMISSIONS REDUCTION</td>
<td>RENEWABLES &amp; MICROGRIDS</td>
<td>HYDROGEN</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| CHAIR: Walt Tunnessen, CEM, National Program Manager, US EPA Energy Star | | | | | |%
| 9:00 - 9:30AM | | | | | |
| Air Handling Unit Control Upgrade | | | | | |
| Brett Rasmussen, PE, CEM, MCEA, Senior Energy Manager, Nissan North America, Inc. | | | | | |
| 9:30 - 10:00AM | | | | | |
| AbbVie Corporate Energy Management | | | | | |
| Peter Moran, Sustainability Program Manager, AbbVie | | | | | |
| 10:00 - 10:30AM | | | | | |
| Compelling Energy Treasure Hunt | | | | | |
| Savings to Realize Net-Zero | | | | | |
| Gary Williams, MBA in Sustainability & Renewable Energy, EE, IAC2, CMI, President, Carolinas Energy Associates, LLC | | | | | |
| 9:00 - 9:30AM | | | | | |
| Energy Innovation in Cold Storage: Firstever Deployment of Linear Generators & Onsite Solar | | | | | |
| Jash Vora, Technical Project Manager, Lineage Logistics | | | | | |
| 10:00 - 10:30AM | | | | | |
| Decarbonization of a Large Brownfield (Electrical Products) Manufacturing Facility | | | | | |
| Barry Powell, North America Head of Seimens Electrical Products Business and Nickyle Milton, Program Manager, Seimens | | | | | |
| 10:30 - 11:00AM | | | | | |
| Paulomi Nandy | | | | | |

Speakers are subject to change and the most up to date information can be found online.
Panel Discussion
Thursday, September 22 | 2:30 - 4:30 pm | Georgia Ballroom 2

THE CURRENT STATE OF THE ENERGY INDUSTRY
Join industry leaders as they discuss the transition to a clean energy future. What does that mean, and how do we get there? Panelists will cover multiple topics under the main theme of resiliency and reliability including renewables and decarbonization, energy storage and microgrids, climate change, energy policy, the energy workforce, sustainable infrastructure, nuclear energy, cybersecurity, energy equity, transportation, and the role that energy efficiency plays in these vital sectors.
This is a “do not miss” event aimed at creating thoughtful discussion between AEE World attendees.

Bentina Terry
Senior Vice President, Customer Strategy & Solutions, Georgia Power

Dr. Yousef Alhorr
Founding Chairmen, Gulf Organization for Research & Development (GORD)

Raheem Beyah, Ph.D.
Dean of the College of Engineering, Georgia Institute of Technology, Southern Company Chair & Co-Founder of Fortiphyd Logic

THE CURRENT STATE OF THE ENERGY INDUSTRY
Join industry leaders as they discuss the transition to a clean energy future. What does that mean, and how do we get there? Panelists will cover multiple topics under the main theme of resiliency and reliability including renewables and decarbonization, energy storage and microgrids, climate change, energy policy, the energy workforce, sustainable infrastructure, nuclear energy, cybersecurity, energy equity, transportation, and the role that energy efficiency plays in these vital sectors.
This is a “do not miss” event aimed at creating thoughtful discussion between AEE World attendees.

Bentina Terry
Senior Vice President, Customer Strategy & Solutions, Georgia Power

Dr. Yousef Alhorr
Founding Chairmen, Gulf Organization for Research & Development (GORD)

Raheem Beyah, Ph.D.
Dean of the College of Engineering, Georgia Institute of Technology, Southern Company Chair & Co-Founder of Fortiphyd Logic

Visit us at Booth #435 to try out MEASUR, DOE's new industrial system-assessment software tool suite, and learn how Better Plants partners have improved energy intensity by 2% annually on average.
Upcoming Certification Training Programs

Premier Certified Energy Manager | In-Person
You earn 3.3 CEU | 33 PDH | 6.6 AEE Credits for completing this program.
In-Person | Boston, MA

Certified Energy Auditor | In-Person and Virtual Attendance
You earn 3.2 CEU | 32 PDH | 6.4 AEE Credits for completing this program.
Chicago, IL | Central Time for Virtual Attendance

Certified Measurement & Verification Professional | Virtual Attendance
You earn 2.4 CEU | 24 PDH | 4.8 AEE Credits for completing this program.
Virtual | Central Time

OCTOBER 2022 PROGRAMS

Certified Energy Procurement Professional | In-Person and Virtual Attendance
You earn 1.9 CEU | 19 PDH | 3.8 AEE Credits for completing this program.
Boston, MA | Eastern Time for Virtual Attendance

Certified Measurement & Verification Professional | In-Person and Virtual Attendance
You earn 2.4 CEU | 24 PDH | 4.8 AEE Credits for completing this program.
Las Vegas, NV | Pacific Time for Virtual Attendance

Accelerated Certified Energy Manager | Online Training Program
You earn 1.2 CEU | 12 PDH | 2.4 AEE Credits for completing this program.
Virtual | Eastern

DECEMBER 2022 PROGRAMS

Certified Business Energy Professional | BEP Certification Exam Preparation
You earn 1.2 CEU | 12 PDH | 2.5 AEE Credits for completing this program.
Online | Eastern Time

Certified Energy Manager | In-Person Attendance
You earn 3.3 CEU | 33 PDH | 6.6 AEE Credits for completing this program.
In-Person | Las Vegas, NV

Accelerated Certified Energy Manager | Online Training Program
You earn 1.2 CEU | 12 PDH | 2.4 AEE Credits for completing this program.
Online | Eastern

Certified Lighting Efficiency Professional | Virtual Training Program
You earn 2.1 CEU | 21 PDH | 4.2 AEE Credits for completing this program.
Virtual | Mountain Time

NOVEMBER 2022 PROGRAMS

Certified Water Efficiency Professional | Virtual Training Program
You earn 1.5 CEU | 15 PDH | 3.0 AEE Credits for completing this program.
Virtual | Central Time

Energy Efficiency Practitioner | Online Training Program
You earn 1 CEU | 10 PDH | 2 AEE Credits for completing this program.
Online | Eastern Time

Certified Building Commissioning Professional | In-Person and Virtual Attendance
You earn 3.2 CEU | 32 PDH | 6.4 AEE Credits for completing this program.
Washington, DC | Eastern Time for Virtual Attendance

Certified Energy Manager | Virtual Attendance
You earn 3.3 CEU | 33 PDH | 6.6 AEE Credits for completing this program.
Virtual | Pacific Time

Register NOW through December!
**Poster Sessions**

**Daily in the EXPO Hall**

These presentations enable exhibit hall visitors and conference attendees to get face-to-face with the presenter on an informal basis to get in-depth information on new projects, data, and case studies.

- **On Water Consumption in the Deployment of Green Hydrogen (H2) Energy Storage and for Electric Power Generation**
  Suleiman Suleiman, Associate Research Scientist, Kuwait Institute for Scientific Research

- **Ice Storage Technology and It’s Impact on Demand Charge of Commercial Buildings**
  Ayush Chobe, Student, University of Illinois, Chicago

- **Effects of Carrier Gas Flow Rate and ZSM-5 Catalyst on Yield and Quality of Bio-oil from Pyrolysis of Lignocellulosic Biomass using a Fixed Bed Reactor**
  Abdelhadi Hussein

- **Supporting the Network Integration of Renewable Energy Sources with Machine Learning Forecasting**
  David Markovics, AEE HSC President, AEE Hungarian Student Chapter/BUTE

- **Self-Healing Wind Turbine Blades Using Polymer Nanocomposites**
  Walaa Hussein Saadeh, Department of Mechanical Engineering, University of Wisconsin-Milwaukee

- **Shifting Towards Sustainability in the Middle East**
  Amal Jaradot, Senior ESG Analyst, Sustainability Excellence

- **Transportation Sector Transformation Case Study - Economic, Environmental, Social, and Cross-Sector Impacts**
  Dana Ibrahim, Jad Sunna, Hussein Emad, and Omar Al Farah, Energy Students at Al Hussein Technical University

- **Cavitation Treatment Through Aeration Method**
  Ahmad Abdelhadi, PhD Student, Mechanical Engineering Department, University of Wisconsin-Milwaukee

- **Sustainable Development Empirical Energy Case Studies**
  Terrence Rollins, Project Manager, RHC Global Energy Solutions

- **Electrification of Heat: How to Produce Building Heat with Low, to No Carbon**
  Lukas Glaspell, National Account Executive, Trane Technologies

- **SF6 Leak Reduction Strategies for High-Voltage Substations**
  Mohammed Ibrahim, Associate Substation Engineer, Leidos

- **Power Reclamation of Utilizing Micro-Hydro Turbines in Wastewater Treatment Plants’ Aeration Basins**
  Abdel Rahman Salem, PhD Candidate, University of Wisconsin-Milwaukee

- **J-Shaped, H-type Vertical Axis Wind Turbine Optimum Design**
  Omar Habash, M.S. Candidate, Mechanical Engineering, University of Wisconsin-Milwaukee

- **Performance of Hybrid Renewable Energy Power System for a Residential Building**
  Mohammed Qandil, Application Engineer, PhD Holder, Terma-Stor, University of Wisconsin-Milwaukee

- **Municipality Waste Management Energy Conservation Measures Economic, Environmental, Social Impact: Case Study**
  Owais Ogdeh, Aya Mousa, Asma Khasawneh, and Dareen Habash, Students, Al-Hussein Technical University

- **Green Hydrogen - Towards Decarbonizing the Energy Transition**
  Hussam Al-Manasir, Sadeel Al-Ra’oush, Ghaith Hyari, Students, Jordan University of Science and Technology (JUST)

- **Techno-Economic Impact of Solar PV Systems on the Industrial Sector Profitability**
  Abdelnaser Dwaikut, General Manager, Msader for Energy Systems

- **Industrial Sector Transition into Clean Energy - Economic, Environmental, and Sustainable Development - Case Study**
  Ramzi Almashny, DTE Energy, Interconnection Engineer

- **Optimizing Storage in Wind Energy**
  Mallak Al Rai, Business Development Analyst, Solarabic DMCC

- **Energy Storage Systems for EVs and Grid Impact**
  Sandy Miguel, Student, Dr. Majd Ghazi Batarseh, Associate Professor, Princess Sumaya University for Technology

- **Energy Harvesting Using Alternator Installed on Sport Machine**
  Maen Thabet, Lead Mechanical Engineer, Wylie Engineering

- **Environmental Equity Assessment of Texas Using EPA’s EJScreen Data**
  Kameel J. Kishek, Student, University of Texas at Austin

**Exhibitor Forums**

**Wed., Sept. 21st**

- **11 am | Onset**

- **11:30 am | BrainBox AI**
  Greg Barnes, Senior Sales Director, Andy Cunningham, Solutions Engineer. Visit their Booth #206.

- **1 pm | Sky Foundry**
  Roger Quesnel, COO. Visit their Booth #312.

**Thur., Sept. 22nd**

- **11 am | FT Energy Controls**
  Richard C. Furman, Chief Executive Officer. Visit their Booth #335.

- **11:30 am | Better Plants**
  Kristina Armstrong, R&D Assistant Staff member. Visit their Booth #435.
Synapse helps facility managers, energy managers, and maintenance teams optimize the performance of their facility by illuminating and eliminating waste. Our IoT Platform, SimplySnap, is an easy-to-deploy, easy-to-use, and easy-to-scale solution that adapts to your organization, facilities, and equipment as they are today, without requiring massive infrastructure upgrades.

**Discover energy waste:** Analyze the flow and utilization of energy over time so you can track and report progress of energy-savings initiatives.

**Reduce unplanned downtime:** Connect to critical equipment and monitor the state and health of your facility.

**Improve the bottom line:** Optimize the operations of your facility by lowering energy expenses and improving equipment uptime.

BOOTH # 212
**Friday, September 23rd | Conference Tracks 9:00 - 11:00 am**

<table>
<thead>
<tr>
<th>TRACK A ROOM: C205</th>
<th>TRACK B ROOM: C204</th>
<th>TRACK C ROOM: C210</th>
<th>TRACK D ROOM: AUDITORIUM 101</th>
<th>TRACK E ROOM: C103</th>
<th>TRACK F ROOM: C104</th>
<th>TRACK G ROOM: C105</th>
</tr>
</thead>
<tbody>
<tr>
<td>SESSION A3</td>
<td>SESSION B3</td>
<td>SESSION C3</td>
<td>SESSION D3</td>
<td>SESSION E3</td>
<td>SESSION F3</td>
<td>SESSION G3</td>
</tr>
<tr>
<td><strong>JUSTIFYING YOUR PROJECTS - FROM FINANCING &amp; INCENTIVES TO CARBON REDUCTION GOALS</strong></td>
<td><strong>SUCCESS STORIES</strong></td>
<td><strong>LIGHTING 101</strong></td>
<td><strong>ENERGY MANAGEMENT 103</strong></td>
<td><strong>M&amp;V</strong></td>
<td><strong>PLANNING &amp; CREATING NNZ NEIGHBORHOODS &amp; CAMPUSES</strong></td>
<td><strong>INDUSTRIAL ENERGY OPTIMIZATION, MANAGEMENT, &amp; MEASUREMENT FOR EFFICIENT OPERATIONS</strong></td>
</tr>
<tr>
<td><strong>CHAIR:</strong> Jacob Goldman, LEED, AP, Vice President, Energy Tax Savers, Inc.</td>
<td><strong>CHAIR:</strong> Robert Meier, PE, Business Development Manager</td>
<td><strong>CHAIR:</strong> Davetta Thacker, Senior Project Manager, NYSERDA</td>
<td><strong>CHAIR:</strong> Michael Langton</td>
<td><strong>CHAIR:</strong> Herb Sinnamon, Director Sustainability, Sheridan College</td>
<td><strong>CHAIR:</strong> Adil Khan, BSEE, MBA, Applications/R&amp;D Engineer, TransPower company</td>
<td></td>
</tr>
<tr>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
</tr>
<tr>
<td>Jacob Goldman, LEED, AP, Vice President, Energy Tax Savers, Inc.</td>
<td>Kiersten Washle, CEM, LFA, LEED Green Associate, ActiveScore AP, Building Science Engineer, CMTA and Anya Welch, LEED Green Associate, WELL AP, High-Performance Sustainability Engineer, CMTA Inc.</td>
<td>Lighting in a Municipal Infrastructure Sinivasan Nagarajan, CEA, LEED AP, Principal Consultant, Hansa Energy Solutions</td>
<td>Challenges &amp; Lessons Learned Vaibhav Gragani, PE, CEM, LEED AP, Director, Environmental, Social, Governance, Universal Health Services</td>
<td>Reuben Bruckley, Director, Facilities, Henry Ford College and Nicholas Paseiro, CEM, LEED AP BD+C, LEED AP O+M, WELL AP, Sustainability Coordinator, Henry Ford College</td>
<td>Jon Feldman, CEM, CMVP, Principal Engineer, Consumers Energy/DNV</td>
<td>Jon Feldman, CEM, CMVP, Principal Engineer, Consumers Energy/DNV</td>
</tr>
<tr>
<td>Financing Projects</td>
<td>9:00 - 9:30AM</td>
<td>9:00 - 9:30AM</td>
<td>9:00 - 9:30AM</td>
<td>9:00 - 9:30AM</td>
<td>9:00 - 9:30AM</td>
<td>9:00 - 9:30AM</td>
</tr>
<tr>
<td>Bernard Brown, Chief Operating Officer, Empire Diversified Energy</td>
<td>9:00 - 9:30AM</td>
<td>9:00 - 9:30AM</td>
<td>9:00 - 9:30AM</td>
<td>9:00 - 9:30AM</td>
<td>9:00 - 9:30AM</td>
<td>9:00 - 9:30AM</td>
</tr>
<tr>
<td>10:00 - 10:30AM</td>
<td>10:00 - 10:30AM</td>
<td>10:00 - 10:30AM</td>
<td>10:00 - 10:30AM</td>
<td>10:00 - 10:30AM</td>
<td>10:00 - 10:30AM</td>
<td>10:00 - 10:30AM</td>
</tr>
<tr>
<td>Energy Efficiency through Performance Indicating Tool</td>
<td>Energy Efficiency through Performance Indicating Tool</td>
<td>Energy Efficiency through Performance Indicating Tool</td>
<td>Energy Efficiency through Performance Indicating Tool</td>
<td>Energy Efficiency through Performance Indicating Tool</td>
<td>Energy Efficiency through Performance Indicating Tool</td>
<td>Energy Efficiency through Performance Indicating Tool</td>
</tr>
<tr>
<td>10:30 - 11:00AM</td>
<td>10:30 - 11:00AM</td>
<td>10:30 - 11:00AM</td>
<td>10:30 - 11:00AM</td>
<td>10:30 - 11:00AM</td>
<td>10:30 - 11:00AM</td>
<td>10:30 - 11:00AM</td>
</tr>
<tr>
<td>Success in Pakistan</td>
<td>Success in Pakistan</td>
<td>Success in Pakistan</td>
<td>Success in Pakistan</td>
<td>Success in Pakistan</td>
<td>Success in Pakistan</td>
<td>Success in Pakistan</td>
</tr>
<tr>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
</tr>
<tr>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
</tr>
<tr>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
</tr>
<tr>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
<td><strong>9:00 - 9:30AM</strong></td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------------</td>
<td>-------------------</td>
<td>-------------------</td>
<td>-----------------------------</td>
<td>-------------------</td>
<td></td>
</tr>
<tr>
<td>SESSION H3</td>
<td>SESSION I3</td>
<td>SESSION J3</td>
<td>SESSION K3</td>
<td>SESSION L3</td>
<td>SESSION M3</td>
<td></td>
</tr>
<tr>
<td><strong>COMPRESSED AIR BEST PRACTICES</strong></td>
<td><strong>THE BETTER PLANTS PROGRAM - WATER / WASTE REDUCTION</strong></td>
<td><strong>EVs &amp; TRANSPORTATION</strong></td>
<td><strong>BLOCKCHAIN / BITCOIN / BIG DATA / IoT</strong></td>
<td><strong>HEALTHY INDOOR AIR QUALITY</strong></td>
<td><strong>ENERGY MANAGEMENT AROUND THE WORLD</strong></td>
<td></td>
</tr>
</tbody>
</table>

**CHAIR: Richard G. Lubinski, CEM, President, Think Energy Management LLC**

**9:00 - 9:30AM** 15 Common Compressed Air System Mistakes to Avoid
- Albert Williams, CEM, CEA, CIEP, CMVP, REP, CAP, BEP, CLEP, AEW Energy

**9:30 - 10:00AM** Automaker Outsources Compressed Dry Air Under a Performance Contract
- Wendy DiMino, Universal Compressed Air & Tim Sohnlein, Universal Compressed Air

**10:00 - 10:30AM** Overview of Compressed Air Energy Automation Projects at 3 Automotive Plants
- Lou York, PE, Director, Case Engineering (CaseI2)

**10:30 - 11:00AM** Jeffry Khan, President, CAM Technologies

**10:30 - 11:00AM** Michael Chanin, Chief Programs Municipal Solar 10:30 - 11:00AM Administration Veterans Health
- Allan Federman, VHA

**10:00 - 10:30AM** Financing d/b/a R&D Tax Savers
- Jacob Goldman, LEED, Energy Industry (IRA) for the of the Inflation

**10:30 - 11:00AM** Systems Msader for Energy General Manager,
- Al-Tekreeti, CHAIR: Robert Langton, CEM, Senior Technical Advisor, U.S., Department of Energy (BGS-LCC) 9:00 - 9:30AM
- Marco Gonzalez 9:30 - 10:00AM General Motors - Designing for a Zero Waste Industry Cory Tatarzyn, Global Zero Waste Program Manager, General Motors 10:00 - 10:30AM Subodh Chaudhari

**CHAIR: Matt Haakenstad, PE, CEM, CMVP, Sr. Director, Electric Services, World Kinect Energy** 9:00 - 9:30AM Electric Vehicle Residential Charging Infrastructure. Is Your Home Ready? Keith Waters, PE, CEM, Manager, Industry Standards, Schneider Electric

**9:30 - 10:00AM** Dynamics of the Global Electric Vehicle Market
- Ron Miller, PE, CEM, REP, MBA, Principal, Reliant Energy Solutions LLC

**10:00 - 10:30AM** EV Charging & Grid Impacts: A Utility Perspective
- Lincoln Wood, Electrification Policy Manager, Southern Company

**10:30 - 11:00AM** Energy One & AATC at the World’s Busiest Airport - 3 Concourses Off the Grid
- Graham Thormstein, Chief Technology Officer, Energy One Consulting and Gary Merrow, Vice-President of Facilities at American Airlines Terminal Company

**CHAIR: Alain Aoun, PE, PhD, CEM, CBCP, CMVP, CE, CLEP, PCF, CAP, REP, BEP, COO - Partner, Blockchain Leaders** 9:00 - 9:30AM

**9:30 - 10:00AM** Strategic Strategies for Energy & Carbon Reduction
- Steven Driver, Ph.D., Engineer and Energy Manager, Sanofi

**10:00 - 11:00AM** Panel Discussion and Q&A

**CHAIR: Alex Mikszewski, PE, CEM, Principal, Wood plc** 9:00 - 9:30AM Energy & IAQ Impacts of Duct Leakage in Commercial Buildings
- John Harrington, PE, CEM, LEED AP, Director of Commercial Application Engineering, Aerosol, LLC

**9:30 - 10:00AM** Beyond Air Changes Per Hour: Applications of CFD Modeling for Effective & Energy-Efficient Ventilation
- Alex Mikszewski, PE, CEM, Principal, Wood PLC

**10:00 - 10:30AM** Quickly Collecting Data in Aging Buildings to Identify Ventilation & Other Performance Gaps
- Matt Schaubroeck, MBA, CEO, ioAirFlow

**10:30 - 11:00AM** Aquis

---

Speakers are subject to change and the most up to date information can be found online.
Keep an eye on your inbox for follow up event emails
— Post Event Survey - Let us know how we can improve
— Certificate of Credits - Will arrive in 4-6 weeks
— Conference Proceedings - Download the technical session presentation slides
— Plan to attend AEE’s 2023 Conferences and Expos
— Connect with event attendees, and speakers on AEE’s social media channels

2023 ENERGY EVENTS

Mark your calendars!

What’s Next?

Get In Touch
aeecenter.org/events
Building the future of energy

At Southern Company, we’re on a mission to achieve net-zero emissions by 2050. We are a trusted energy partner with a strong customer-focused approach to delivering resilient, clean and economical solutions to support your organization’s unique energy mandates, sustainability goals and operational readiness.

Together, we’re redefining what’s possible.

southerncompany.com/future