



Download the conference  
and expo documents to  
your phone.

**ae** ENERGY  
CONFERENCE & EXPO

**WORLD**

# Event Guide

**October 20-22, 2021**

Ernest N. Morial Convention Center  
New Orleans, LA

## A Special Thanks to our **Sponsors**

*Platinum Sponsor*



*Gold Sponsors*



*Innovative Technology  
Breakfast Sponsor*

*Energy Leaders*



*Bronze Sponsors*



*Supporting Partners*



**aeeworld.org**

**Look Inside**

**Opening Session  
Special Events  
Expo & Exhibitors**



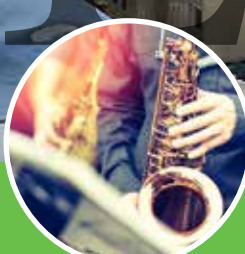
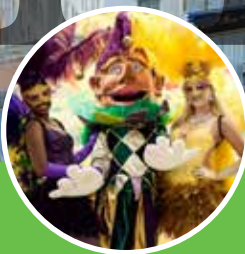
A Welcome Message from  
**Latoya Cantrell**  
Mayor, City of New Orleans



It is my absolute pleasure, as Mayor of the City of New Orleans, to welcome you to the 2021 Association of Energy Engineers World Energy Conference and Expo. The City is honored to host your event.

New Orleans is committed to prioritizing infrastructure improvements, particularly those in the energy sector. We are constantly innovating how we can align our improvements with smart city methods and goals and implementing those for our future. I hope you will see that as you tour different parts of the city and include that in your discussions over the span of this event. On behalf of the City of New Orleans, I'm honored to extend this special welcome to you all.

Regardless of whether you are visiting New Orleans or you call it home, we hope you enjoy every minute of your time with us.





# Opening Session

9:00 am - 10:45 am | October 20, 2021

Ernest N. Morial Convention Center | Great Hall A

## Featured Keynote Speakers



**Welcome from AEE**  
**Bill Kent, CEM**  
Executive Director  
Association of Energy Engineers  
9:00-9:20 am



**Opening Keynote**  
**Deanna Rodriguez**  
President and CEO  
Entergy New Orleans  
9:20-9:45 am



**Never Give Up**  
**Bear Grylls, OBE**  
Survivalist and Outdoor  
Adventurer  
9:45-10:20 am



—Expo Opens at 10:00 am in Hall B1



# COMMERCIAL & INDUSTRIAL SOLUTIONS



Entergy Solutions is a program that incentivizes Entergy Louisiana customers to perform energy saving upgrades in their facilities. The program works with business owners, facility managers and trade ally contractors to identify opportunities and provide cash incentives for completing eligible upgrades with proven energy savings.

Energy-efficient upgrades can help your business lower maintenance costs, increase occupancy rates and increase asset value. Applications are accepted on a rolling basis. There is no deadline to apply.

## ELIGIBLE UPGRADES

HVAC Equipment &  
Controls

Building Automation  
Systems

Lighting &  
Lighting Controls

Motors & Pumps

Compressed Air  
Systems

Refrigeration

Commercial  
Kitchen

## STEPS TO PARTICIPATE



### INITIATE

Customer or contractor identifies project.



### APPLY

Customer or contractor submits required documents\* to program.



### PRE-APPROVAL

Program performs pre-approval review. A site visit may be required.



### EXECUTE

Materials are ordered and installed.



### POST-INSTALLATION

Program schedules site visit and distributes incentive.

\*See program website for application and required documentation.

**Ready to save?** Contact Entergy Solutions to get started and find a participating trade ally. Visit [entergysolutionsla.com](http://entergysolutionsla.com), email [entergysolutionsla@entergy.com](mailto:entergysolutionsla@entergy.com) or call **844-829-1300**.

A message from Entergy Louisiana, LLC ©2021 Entergy Services, LLC.  
All Rights Reserved. The Entergy Solutions program is an energy efficiency program not affiliated with Entergy Solutions, LLC.

**ENTERGY SOLUTIONS**  
AN ENTERGY LOUISIANA PROGRAM





# Conference Special Events

## Tuesday | Oct. 19

**3 - 5:30 pm** | Annual AEE Event | Great Hall B

### AEE Regional Awards Ceremony

Join AEE to recognize individuals and companies that have demonstrated notable contributions to move the energy profession and industry forward.

**6 - 10 pm** | Networking | Court of Two Sisters

### Legends in Energy Reception

Soak in the tastes, sounds and revelry of New Orleans and Mardi Gras in the heart of the French Quarter.

## Conference Sessions & Panels

### Technical Sessions

**Wed. 2:30 - 4:30 pm**

**Thur. 9:00 - 11:00 am**

**Fri. 9:00 - 11:00 am**

### Panel Discussions

**Thur. 2:30 - 5:00 pm**

Get your copy of the the daily schedule at Registration for the latest details.

## Wednesday | Oct. 20

**7:30 - 8:30 am** | Networking | Great Hall B

### Free Innovative Technology Breakfast<sup>1</sup>

Learn about the latest technologies, products, services and solutions that are available now over a complimentary hot breakfast.

*Innovative Technology  
Breakfast Sponsor*



**12 - 1:30 pm** | Annual AEE Event | Great Hall B

### AEE Student Chapter Awards Luncheon

Deserving student chapters will be recognized for their achievements on campus and within their local communities.

**4 - 6 pm** | Networking | Magnolia Porch Outside Hall B1

### Conference Attendee Networking Reception<sup>1</sup>

This exclusive event, held in the expo hall, is an excellent way for conference attendees, speakers, and exhibitors to connect after the first day of events.

**6:15 - 6:45 pm** | Annual AEE Event | Rivergate Terrace

### AEE Banquet Reception<sup>1</sup>

Join conference attendees for the free networking event held prior to the International Awards Banquet.

**6:45 - 7 pm** | Annual AEE Event | Rivergate Terrace

### Fellows Induction Ceremony<sup>1</sup>

Welcome Members who are celebrating AEE Fellow status. We recognize their significant contribution to the industry.

**7 - 10 pm** | Annual AEE Event | Great Hall A

### AEE International Awards Banquet<sup>1</sup>

Join AEE to recognize individuals and companies that have demonstrated notable contributions to the energy profession on international levels.

## Daily In Expo Hall B1

### Networking Luncheons

Wed. Oct. 20 | 12 pm - 1 pm

Thurs. Oct. 21 | 12 pm - 1 pm

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

### Exhibitor Forums

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

### Poster Sessions (Booth 501)

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.

### Coffee Station

Stop by the expo hall at booth 621 to kick start your day or refresh mid-morning.



# ENERGY SMART COMMERCIAL & INDUSTRIAL OFFERINGS

Energy Smart is Entergy New Orleans' energy efficiency program that incentivizes customers to perform energy saving upgrades in their facilities. The program works with business owners, facility managers and trade ally contractors to identify opportunities and provide cash incentives for completing eligible upgrades with proven energy savings. Applications are accepted on a rolling basis. There is no deadline to apply.

**Incentives are available for equipment upgrades that result in a verifiable electric usage reduction, such as:**

- Lighting and lighting controls.
- Chillers.
- HVAC upgrades and heat pump.
- Motors.



**Energy efficient upgrades can help your business:**

- Increase comfort for customers and employees.
- Lower maintenance costs with longer-lasting, high-quality technology.
- Increase occupancy rates.
- Increase asset value.

**Participants can receive up to 100 percent of the project cost.**



**\$50,000 for lighting only upgrades per site, per year.**

**\$100,000 for non-lighting only upgrades per site, per year.**

**\$150,000 total for combined lighting & non-lighting upgrades per site, per year.**

**Follow these simple steps to earn incentives for your next energy efficiency project.**

**1**

Participant identifies project.

**2**

Participant submits required documents.

**3**

Program conducts site visit & grants pre-approval\*.

**4**

Participant orders & installs equipment.

**5**

Participant submits completion documents after installation.

**6**

Program conducts post-site visit & pays incentive.

\*Contact us to find out if pre-approval is required for your project.

Visit [energysmartnola.com](http://energysmartnola.com) to find a Registered Trade Ally.



1. Event, food and beverage is included with each paid 3-day conference registration.
2. Refreshments included for CWEEL members, \$20 for Supporting Partner attendees, \$30 for all others.
3. Lunch included\*

## Thursday | Oct. 21



**7:30 – 9 am** | Networking | Great Hall B

### **CWEEL Breakfast and Keynote Presentation<sup>1</sup>**

Join us for a keynote presentation by Adrienne Zlatkiss.



**Adrienne Zlatkiss**  
Service Director for  
Powers of Louisiana

**4 – 6 pm** | Networking | Rivergate Terrace

### **CWEEL Reception<sup>2</sup>**

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

CWEEL Sponsor

Networking Breakfast & Reception

CWEEL Sponsor

Networking Breakfast



## Friday | Oct. 22

**7:00 – 9 am** | 1 Canal St.

### **Riverfront Jog**

Join AEE staff member Helen Johnson for an easy jog through Woldenberg Riverfront Park. Start/Meetup at 1 Canal St. See website for more details.

**11:15 am – 1 pm**

Annual AEE Event | Great Hall A

### **Keynote Luncheon<sup>3</sup>**

Join conference attendees as Robert Swan, Record Breaking Polar Explorer and Environmental Campaigner closes the event with his keynote speech.



Photo opportunity following luncheon

**Robert Swan**

### **2021 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.



**Lori Moen**



**Barry Benator**

**Shannon**  
GLOBAL ENERGY SOLUTIONS

THE INDUSTRY LEADER FOR REMOVABLE & REUSABLE  
**THERMAL BLANKETS & INSULATION**

**AEE World Energy Conference & Expo 2021**

**Sustainability & Savings Booth 114**

THERMAL
 ACOUSTIC
 SAFETY

716.693.7954 / info@shannonglobalenergy.com / www.shannonglobalenergy.com

Typical ESCOs do conventional best practice.  
**WEI goes well beyond the conventional.**

**World Energy INNOVATIONS**

We use our world class **sustainable solutions** to engineer and build industrial & healthcare energy efficiency projects that **routinely deliver 30% to 50% verified savings.**

And those are savings that we guarantee, based on **four decades of time-tested portfolio** of proven technologies.

**REALIZE YOUR VISION. WORKING TOGETHER, WE CAN EXECUTE SUSTAINABLE SOLUTIONS SHOWING THE WORLD WHAT'S POSSIBLE.**

**WEI – we guarantee it!**

WEI is a technology solutions provider where innovation begets transformation becoming NEXT PRACTICE. As a result, our projects deliver large energy savings and deep decarbonization that our customers demand.

**WWW.WORLDENERGYINNOVATIONS.COM**

**BUILDING BETTER IDEAS**

With over 100 years of campus utility and energy infrastructure experience, Bernhard offers turnkey solutions that reduce energy use, risk, and cost so that our clients can focus on their core business.

To learn more, visit us at [Bernhard.com](http://Bernhard.com).

**ENERGY-AS-A-SERVICE**

**ENGINEERING**

**ENERGY ENGINEERING**

**CONSTRUCTION**

**O&M SERVICE**

**OPERATIONAL SUPPORT**

# Conference Overview

## Wednesday October 20

7:30 AM	Innovative Product Breakfast	
8:00 AM		
8:30 AM		
9:00 AM	Conference Opening Session	
9:30 AM		
10:00 AM		EXPO
10:30 AM		
11:00 AM		
11:30 AM		
12:00 PM	Conference Attendee or Student Lunch	
12:30 PM		
1:00 PM		
1:30 PM		
2:00 PM		
2:30 PM		
3:00 PM		Conference Tracks
3:30 PM		
4:00 PM		
4:30 PM	Conference Attendee Networking Reception	
5:00 PM		
5:30 PM		
6:00 PM	Banquet Reception and AEE Fellows	
6:30 PM		
7:00 PM	AEE International Awards Banquet (7-10 PM)	

## Thursday October 21

CWEEL Breakfast	
Conference Tracks	EXPO
Conference Attendee Lunch	
High Level Panel Discussions	
	CWEEL Reception

## Friday October 22

Riverside Jog (7:00 am)

Conference Tracks

Closing Keynote Lunch\*

Including AEE Hall of Fame Presentations

## Connect with Us



**aee**center.org



JOIN US AT AEE WORLD!  
WE'RE EXHIBITING!

STOP BY FOR A  
CHANCE TO WIN  
A FREE TV!



+ MARK YOUR  
CALENDAR!

*A Presentation By*  
**TLV CORPORATION PRESIDENT**

**Eliminate Condensate Bottlenecks  
in Reboiler Discharge**

**Wednesday Oct. 20<sup>th</sup>  
4:00pm-4:30pm (CDT)**

Track J: Wet & Wild World of Water & Energy



**JAMES RISKO**  
CEM, PEM, MBA



# Conference Planner

Day - Time	- Conference Track	- Location
Wed. 2:30 PM		
Wed. 3:00 PM		
Wed. 3:30 PM		
Wed. 4:00 PM		
Th. 9:00 AM		
Th. 9:30 AM		
Th. 10:00 AM		
Th. 10:30 AM		
Fri. 9:00 AM		
Fri. 9:30 AM		
Fri. 10:00 AM		
Fri. 10:30 AM		

Panel Discussion - Location
Thur. 2:30 - 3:30 PM
Thur. 4:00 - 5:00 PM
EXPO Hall

## Yardi Pulse® Suite



Build a complete energy strategy across your entire portfolio with solutions that improve energy performance, decrease costs and ensure tenant comfort.

- Optimize** utility spend
- Reduce** energy consumption
- Automate** energy management

Run your real estate business with a single connected software solution.

(800) 866-1144 | [Yardi.com/pulse](https://Yardi.com/pulse)

©2021 Yardi Systems, Inc. All Rights Reserved. Yardi, the Yardi logo, and all Yardi product names are trademarks of Yardi Systems, Inc.



# Wednesday, October 20th | Conference Tracks 2:30 - 4:30 pm

TRACK A   ROOM: 225/226	TRACK B   ROOM: 219	TRACK C   ROOM: 218	TRACK D   ROOM: 217
SESSION A1	SESSION B1	SESSION C1	SESSION D1
CHP	ENERGY MANAGEMENT 101	COMMISSIONING	WET & WILD WORLD OF WATER & ENERGY
<p>CHAIR: Buster Barksdale Jr., CEM, CSDP, CEO, CoGen Power Solutions</p> <p><b>2:30 - 3:00PM</b> <b>Decentralized CHP in Puerto Rico</b></p> <p>Marcus Martin, CEO, Martin Energy Group</p> <p><b>3:00 - 3:30PM</b> <b>Off Grid Combined Heat and Power Solutions for the Greenhouse Market</b></p> <p>Derek Loganbill, PE, Engineering Manager, Martin Energy Group</p> <p><b>3:30 - 4:30PM</b> <b>Q&amp;A and Discussion</b></p>	<p>CHAIR: Placido Impollonia, CEM, Director - Retired, New York City's Division of Energy Management</p> <p><b>2:30 - 3:00PM</b> <b>Energy Efficiency and Clean Energy Project Finance Basics</b></p> <p>Daniel Katzenberger, PE, CEM, GBE, CSDP, CEA, BEMP, LEED-AP BD+C, ID+C, O+M, Homes, Global Sustainability and ESG Leader, Best Buy</p> <p><b>3:00 - 3:30 PM</b> <b>RCx 101</b></p> <p>John Avina, PE, CEM, CMVP, CEA, CxA, President, Abraxas Energy Consulting</p> <p><b>3:30 - 4:00 PM</b> <b>Energy Auditing 101</b></p> <p>Brian Clippinger</p> <p><b>4:00 - 4:30PM</b> <b>Performance Contracting 101</b></p> <p>James P. Waltz, PE, CEM, DABFET, FCABE, President, Energy Resource Associates, Inc.</p>	<p>CHAIR: Song Deng, PE, CBCP, CMVP, REP, CEA, HoF, CEO/ Technical Advisor, Bee</p> <p><b>2:30 - 3:00PM</b> <b>Unique Cx and RCx Programs Produce Significant Savings</b></p> <p>Paul Graves, CEM, PE, Cp EnMS, DCEP-HVAC Sp, Senior Energy Management Consultant, Jacobs Engineering, Strategic Consulting, Energy Solutions</p> <p><b>3:00 - 3:30PM</b> <b>Remote Retrocommissioning During the Covid-19 Pandemic and into the Future</b></p> <p>Homa Naeimi, Engineer, Nexant Inc.</p> <p><b>3:00 - 3:30PM</b> <b>Remote Retrocommissioning During the Covid-19 Pandemic and into the Future</b></p> <p>Lauren Rueda, CEM, Portfolio Energy Manager, JLL</p> <p><b>3:30 - 4:00PM</b> <b>The Current State of Building Commissioning – A Practitioner's Version &amp; Vision</b></p> <p>Song Deng, PE, CBCP, CMVP, REP, CEA, HoF, CEO/Technical Advisor, Bee</p> <p><b>4:00-4:30 PM</b> <b>Q&amp;A and Discussion</b></p>	<p>CHAIR: TBD</p> <p><b>2:30 - 3:00PM</b> <b>Improved Efficiency with Zero Emission Medium Voltage Heating</b></p> <p>James Lewis, Business Development Manager - Sustainable Energy, Chromalox Inc.</p> <p><b>3:00 - 3:30PM</b> <b>Water as a Service</b></p> <p>Katie Hoffmaster, Sr. Originator Water Solutions, NextEra Energy Resources</p> <p><b>3:30 - 4:00PM</b> <b>Chilled and Hot Water Pumping Systems</b></p> <p>Robert F. Kownurko, PE, CEM, BEMP, Engineering Development Manager, CM3 Building Solutions</p> <p><b>4:00 - 4:30PM</b> <b>Eliminate Condensate Bottlenecks in Reboiler Discharge</b></p> <p>James R. Risko, CEM, PEM, MBA, President, TLV Corporation</p>

## In The Expo Hall | Wednesday, October 20th

### Innovative Technology Breakfast

Wednesday, October 20th

7:35 am | **Aeroseal**

April Frakes, Director of Commercial Business Development. Visit their Booth 330

7:45 am | **SkyFoundry**

John Petze, Principal, Co-Founder. Visit their Booth 312.

7:55 am | **2G Energy Inc.**

Emily Robertson, Business Development Team Manager. Visit their Booth 406

8:10 am | **EMPEQ**

Dara O'Neill, Director Utility Programs & Business Development. Visit their Booth 335



# Wednesday, October 20th | Conference Tracks 2:30 - 4:30 pm

TRACK E   ROOM: 220	TRACK F   ROOM: 221	TRACK G   ROOM: 222	TRACK H   ROOM: 223
SESSION E1	SESSION F1	SESSION G1	SESSION H1
<b>HEALTHY &amp; EFFICIENT BUILDINGS</b>	<b>ENERGY AND CARBON MANAGEMENT SYSTEMS</b>	<b>ROLE OF ENERGY MANAGEMENT FOR COMBATING GLOBAL CLIMATE CHANGE</b>	<b>RENEWABLES AND MICROGRIDS</b>
<p>CHAIR: Fotouh A. Al-Ragom, Ph.D., CEM, CSDP, CEA, Energy Efficiency Technologies Program Manager, Kuwait Institute for Scientific Research /EBRC/EET</p> <p><b>2:30 - 3:00PM</b> <b>MBCx at the MetLife Building</b></p> <p>CP Pitones, Senior Account Executive, Energy, Yardi Systems, Inc.</p> <p>Christy Cannon, CEM, Solutions Consultant, Energy, Yardi Systems Inc.</p> <p><b>3:00 - 3:30PM</b> <b>The Future of Class B/C Building Controls and the Runtime Opportunity</b></p> <p>Alex McCarthy, PE, MBA, CEM, CPD, LEED AP, Associate Director Building Systems, Sidewalk Labs</p> <p><b>3:30 - 4:30PM</b> <b>Hospital Campus Efficiency and Preparing for Future Policies</b></p> <p>Ed Kiser, PE, Director of Engineering, Worthington Energy Innovations</p> <p>Robert L. Berninger, CEM, CEA, CSDP, Director - Plant Operations, Energy &amp; Engineering, Memorial Sloan Kettering Cancer Center</p>	<p>CHAIR: Richard J. Costello, PE, CEM, MSEM, BSME, President, Acela Energy Group, Inc.</p> <p><b>2:30 - 3:00PM</b> <b>Maintaining Balance through Transactive Energy</b></p> <p>Craig Henry, CEM, CEA, District Manager, Honeywell Smart Energy</p> <p><b>3:00 - 3:30PM</b> <b>Energy Security, Resiliency, Sustainability and Optimization of Energy Systems</b></p> <p>Ashish N. Agrawal, PhD, CEM, CDSM, CMVP, CEA, Senior Vice President, Guernsey</p> <p><b>3:30 - 4:00PM</b> <b>Army &amp; Army Reserve Energy Strategic Integration for the Future</b></p> <p>Steve Patarcity, MS, Army War College, 2004, Assistant Director/ Senior Strategic Planner, G35 Office, Office of the Chief of Army Reserve</p> <p><b>4:00 - 4:30PM</b> <b>Behind-the-Meter Wind Power Re-imagined</b></p> <p>Richard J. Costello, PE, CEM, MSEM, BSME, President, Acela Energy Group, Inc.</p>	<p>CHAIR: Richard Gorze, CEM, CDSM, Global Energy Manager ,Eaton Corporation</p> <p><b>2:30 - 3:00PM</b> <b>Strategic Elements of an Enterprise Energy Management System</b></p> <p>Dave Bullington, Vice President Sales &amp; Marketing, MPC Energy, LLC</p> <p><b>3:00 - 3:30PM</b> <b>Telling Your Energy Story for Awareness</b></p> <p>Ashley Williams, MCRP, ATEM, Chief Operating Officer, Texas Energy Managers Association</p> <p><b>3:30 - 4:00PM</b> <b>Integrating Solar into Energy Projects - Just Squeeze and Bake</b></p> <p>Parker Higgs, Regional Director of Energy Services, Entegrity Energy Partners, LLC</p> <p><b>4:00 - 4:30PM</b> <b>Q&amp;A and Discussion</b></p>	<p>CHAIR: Stephen A. Roosa PhD, CEM, CMVP, REP, CSDP, CRM, BEP, CBCP, President ,RPM Asset Management</p> <p><b>2:30 - 3:00PM</b> <b>It's Back to the Future with Microgrids!</b></p> <p>Stephen Roosa, PhD, CEM, CMVP, REP, CSDP, CRM, BEP, CBCP, President, RPM Asset Management</p> <p><b>3:00 - 3:30PM</b> <b>Microgrids and the Value of Resiliency</b></p> <p>Alden Hathaway II, PE, CEM, Senior Vice President, Business Development, Sterling Planet, Inc.</p> <p><b>3:30 - 4:00 PM</b> <b>Renewable Energy to Green Ammonia: Impact of Power Profiles on Techno-Economic Performance of Casale Green Ammonia Process</b></p> <p>Chris Mancinelli , Country Manager – Americas for Casale</p> <p><b>4:00 - 4:30 PM</b> <b>Decarbonization of Kuwait Power Sector - The Role of Gas Turbine in the Energy Transition</b></p> <p>Suleiman Mohammed, Associate Research Scientist, Kuwait Institute for Scientific Research</p>

## Exhibitor Forums

Wednesday, October 20th

11:30 am | **EZ Meter**

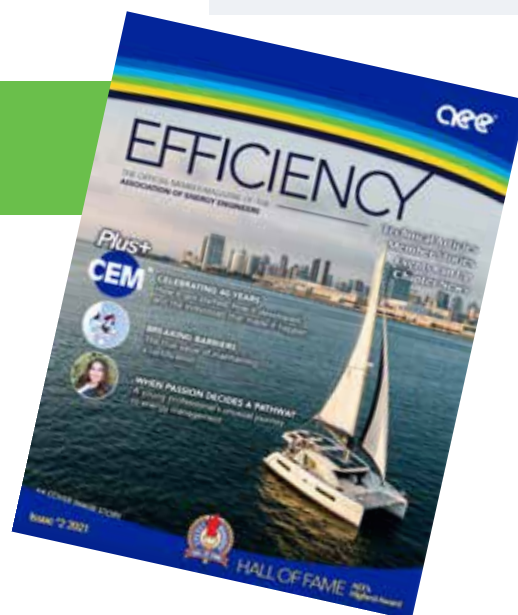
Ryan Fetgatter, Managing Partner, Dave Bovankovich, CTO and Electrical Engineer. Visit their Booth 434.

12:00 pm | **SkyFoundry**

John Petze, Principal, Co-Founder. Visit their Booth 312.

12:30 pm | **Everactive**

Brian Alessi, VP Marketing. Visit their Booth 319.



Pick Your Copy at  
the AEE Booth

# Visit the Expo Hall B1 - Event Exhibitors

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







BRAINBOX AI



## Exhibit & Sponsor Events for 2022

- Discounted Exhibitor Packages
- Sponsorship Opportunities
- Access Key Decision Makers
- Engage & Network with the Industry



### Contact

Diane McCullum | [diane@aeecenter.org](mailto:diane@aeecenter.org)  
Tel: 205-222-1634

### Questions & Updates

Visit Registration  
Great Hall Lobby  
7:30 am – 4:00 pm

Information as of 10/11/2021.

Or Visit Booth **124**

# Thursday, October 21st | Conference Tracks 9:00 - 11:00 am

TRACK A   ROOM: 225/226	TRACK B   ROOM: 219	TRACK C   ROOM: 218	TRACK D   ROOM: 217
SESSION A2 <b>ENERGY MASTER PLANNING</b>	SESSION B2 <b>ENERGY MANAGEMENT 102</b>	SESSION C2 <b>DECARBONIZATION STRATEGIES FOR INDUSTRIAL OPERATIONS</b>	SESSION D2 <b>TRANSFORMATIONAL TECHNOLOGIES AND TECHNIQUES</b>
<p>CHAIR: Fredric S. Goldner, CEM, CEA, President, Energy Management &amp; Research Associates</p> <p><b>9:00 - 9:30AM</b> <b>City of Springfield Energy Master Plan Case Study</b></p> <p>Kathleen A. Stanley, CEM, Principal, Energy Advocates LLC</p> <p><b>9:30 - 10:00AM</b> <b>Energy Master Planning - Establishing the Plan and Lessons Learned</b></p> <p>Thomas Lanzilotta, CEM, CEA, Campus Sustainability &amp; Energy Manager, Stony Brook University</p> <p><b>10:00 - 10:30AM</b> <b>Retro-Cx Program Development: Achieving Portfolio Wide Energy &amp; Carbon Reduction Goals through Training and a Culture of Collaboration</b></p> <p>Saverio Grosso, CEM, CEA, EBCP, CBCP, Managing Director, Edison Energy</p> <p><b>10:30 - 11:00AM</b> <b>Q&amp;A and Discussion</b></p>	<p>CHAIR: Chris Christian</p> <p><b>9:00 - 9:30AM</b> <b>Chillers 101</b></p> <p>Eric M. Oliver, PE, CEM, LEED AP, Founder, Earthwide, LLC</p> <p><b>9:30 - 10:00 AM</b> <b>The Basics of Steam - What is it, how does it work, and what can it do?</b></p> <p>Chuck Strand, Director, Government Business Development, FuelCell Energy, Inc</p> <p><b>10:00 - 10:30 AM</b> <b>Controls 101</b></p> <p>Chris Christian</p> <p><b>10:30 - 11:00AM</b> <b>Hydronics 101</b></p> <p>Speaker TBD</p>	<p>CHAIR TBD</p> <p><b>9:00 - 9:30AM</b> <b>Decarbonization Strategies For Industrials</b></p> <p>Ronald Miller, PE, CEM, REP, MBA, Director of Energy, Reliant Energy Solutions LLC</p> <p><b>9:30 - 10:00AM</b> <b>Forget Legacy Environmental Control! Leverage machine learning to create autonomous intelligent HVAC operation within industrial facilities to maximize productivity, machine uptime &amp; workplace safety</b></p> <p>Darian Slywka, Vice President of Business Development, Synapse Wireless, Inc.</p>	<p>CHAIR: Matt Haakenstad, PE, CEM, CMVP, Sr. Director, World Kinect</p> <p><b>9:00 - 9:30AM</b> <b>Transportation Electrification: What to consider before converting your fleet vehicles to electric</b></p> <p>Matt Haakenstad, PE, CEM, CMVP, Sr. Director, World Kinect</p> <p><b>9:30 - 10:00AM</b> <b>Volatile Energy Markets &amp; Industry Procurement Trends</b></p> <p>Dan Conrath, Senior Vice President, StoneX Financial Inc.FCM Division</p> <p><b>10:00 - 10:30AM</b> <b>Project Financing Using Operational Savings vs. Capital Budget</b></p> <p>Anastasia Beckett, Senior Vice President of Sales, Metrus</p> <p><b>10:30 - 11:00AM</b> <b>From Smart to Autonomous: Pairing HVAC and AI to drive energy savings and reduce emissions</b></p> <p>Blake Standen, CEM, CMVP, Senior Solutions Engineer, Brainbox AI</p>



**EXPECT THE EXTRAORDINARY**

**Capabilities:**

- ▶ Utility Energy Infrastructure Solutions
- ▶ Utility Energy Management Solutions
- ▶ Energy & Infrastructure
- ▶ Innovation & Product Energy Solutions
- ▶ Resiliency & Sustainability Energy Solutions

Visit our booth to find out more.

4171 Essen Lane  
Baton Rouge, LA 70809

833 86 APTIM  
833 862 7846  
info@aptim.com



SCAN ME

**Visit Us at Booth #200**

APTIM.com |   



**ALL YOUR ENERGY COMPLIANCE ISSUES SIMPLIFIED....**

Let us show you how we can reduce your carbon footprint and comply with new energy management mandates....

**CUSTOMIZED ENERGY MANAGEMENT SOLUTIONS TO MEET YOUR NEEDS**

BOS-4 is designed to provide the right tool for compliance with various energy reduction mandates, including ASHRAE 90.1 and CA Title 24 among others.



**DESIGN**  
Designed to reduce install labor and space



**DEVELOPMENT**  
Pre wired and developed to comply with ASHRAE 90.1 mandates



**FLEXIBILITY**  
Configured to meet your needs...no matter what voltage or service type

Albuquerque, NM 87123 | www.ezmeter.com | ryan@ezmeter.com  
(805) 688-9696



## TRACK E | ROOM: 220

### SESSION E2

#### ENERGY STORAGE

CHAIR: John M. Avina, PE, CEM, CMVP, CEA, CxA, President, Abraxas Energy Consulting

**9:00 - 9:30AM**

#### Three Thermal Energy Storage Case Studies

Guy S. Frankenfield, PE, Energy Market Manager, DN Tanks, Inc.

**9:30 - 10:00AM**

#### Green Hydrogen: The Bridge Fuel that Doesn't Stink!

Rice Lummis, MBA, Market Risk Manager, 5

**10:00 - 10:30AM**

#### Alternative TES: Interseasonal storage of winter cold and industrial refrigeration techniques

Robert Timmerman, PE, CEM, LEED AP, Principal, R W Timmerman & Associates

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

#### Battery Energy Storage: What it is (really), what it can do, and why you need it

Tony Mayfield, PMP, CSM, Senior Consultant and Managing Partner, On-Target Innovations, LLC

## TRACK F | ROOM: 221

### SESSION F2

#### BUILDING ANALYTICS

CHAIR: Steven D. Heinz, PE, CEM, CMVP, Founder and CEO, EnergyCAP, Inc.

**9:00 - 9:30AM**

#### COVID Building Setback Success or Failure? See What the Data Shows

Steven D. Heinz, PE, CEM, CMVP, Founder and CEO, EnergyCAP, Inc.

**9:30 - 10:00AM**

#### Analytics is More Than FDD

John Petze, Principal, Co-Founder, SkyFoundry, LLC

**10:00 - 10:30AM**

#### Autonomous Buildings - Unlocking Energy Efficiency and Smart Cities

Troy Harvey, CEO, PassiveLogic

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

#### Analytics Moves to the Edge

John Romano, EVP of Sales, Autani, LLC

## Panel Discussions

2:30 - 5:00 pm

### PANEL A | 2:30 - 3:30 PM | ROOM: 152B

#### EVOLVING GLOBAL ENERGY POLICY

Chair: **Timothy Unruh**, PhD, CEM, PE, Executive Director, National Association of Energy Service Companies

##### Panelists

**Ahmed Elbermbali**, Managing Director, Clean Energy Business Council (CEBC)

**Søren Lütken**, Senior Climate Finance Adviser, UNEP DTU Partnership

**Melanie Slade**, Senior Programme Manager, Energy Efficiency in Emerging Economies, International Energy Agency

**John Tuccillo**, Global Advisor, Innovative Sustainability Advisors, LLC

### PANEL B | 4:00 - 5:00 PM | ROOM: 151A

#### RESILIENCY – RESPONDING TO SHOCKS AND STRESSORS

Chair: **Ray Segars**, CEM, FAEE, Director of Business Development, Association of Energy Engineers

##### Panelists

**Chris Peters**, Chief Security Officer, Entergy

**Amy Spall**, Policy Advisor, Energy & Environment, British Consulate-General Houston

**Hossam Kassab**, PE, LEED AP BD+C, CEM, CMVP, CEA, CDSM, CBCPM

### PANEL C | 4:00 - 5:00 PM | ROOM: 151B

#### ACHIEVING CLIMATE CHANGE GOALS THROUGH ENERGY EFFICIENCY

Chair: **Eric Oliver**, PE, CEM, LEED AP, Founder, Earthwise

##### Panelists

**Carl Salas**, PE, Founder and Principal, Senior Mechanical Engineer, Salas O'Brien

**Eric Woodroof**, Ph.D., Founder, Profitable Green Solutions



**Energy Efficiency,  
Consulting & Auditing**

**Visit Us at Booth 418**

## Future-proof your energy management

Capital, asset and energy data are key to data-driven decisions, longer asset lifecycles and satisfied stakeholders... all with minimal impact on the environment.

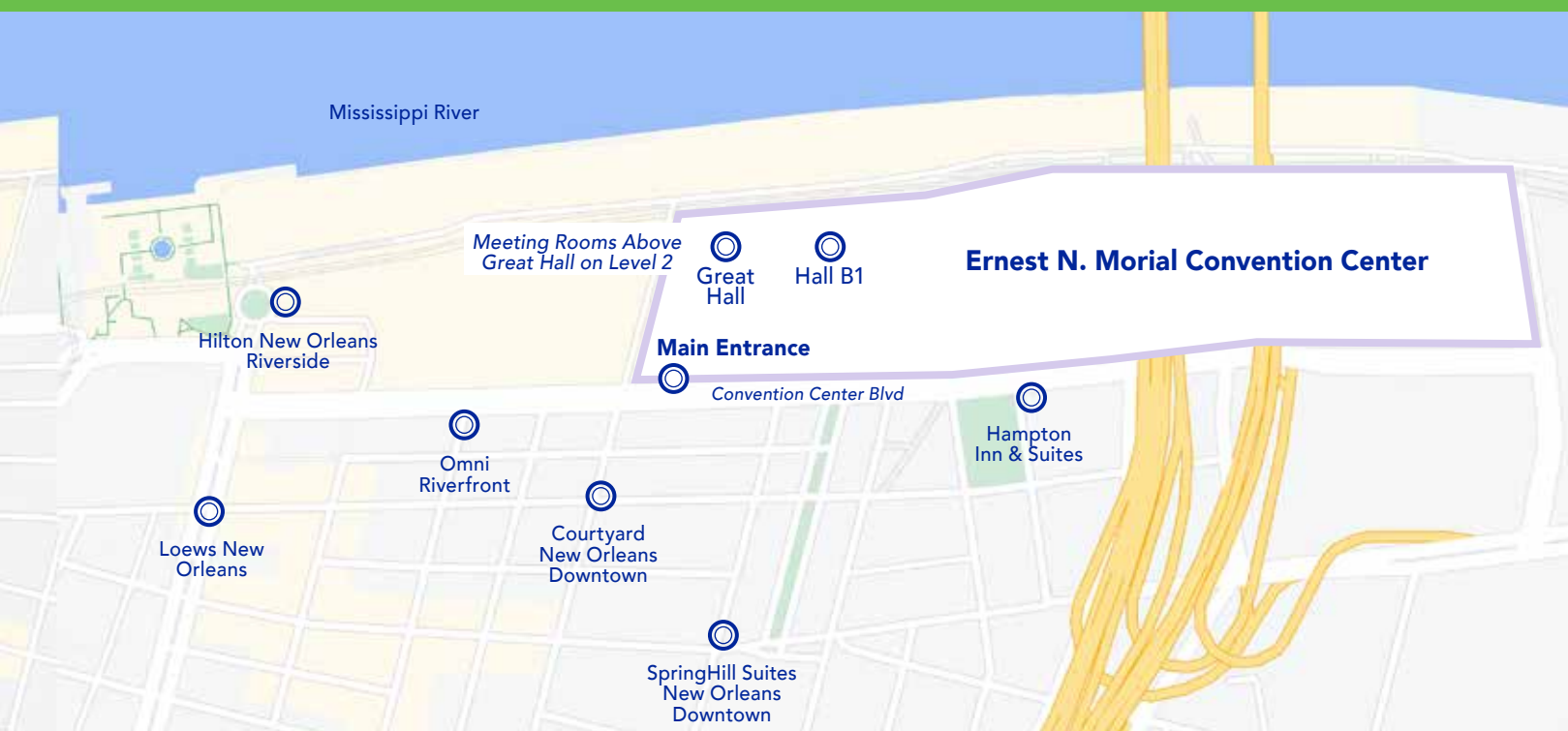


**Dude Solutions**

# Friday, October 22nd | Conference Tracks 9:00 - 11:00 am

TRACK A   ROOM: 225/226	TRACK B   ROOM: 219	TRACK C   ROOM: 218
SESSION A3	SESSION B3	SESSION C3
SUCCESS STORIES	ENERGY MANAGEMENT 103	INFRASTRUCTURE RENEWAL A PHENOMENOLOGICAL WAY TO SAVE ENERGY
<p>CHAIR: Timothy B. Janos, BEP, CDSM, CEA, CEM, CRM, CSDP, President, Spectrum Energy Concepts, Inc.</p> <p><b>9:00 - 9:30AM</b> <b>Saving Energy Use with Variable Speed Drives and Motor Control</b></p> <p>Duane D. Warren, CEM, CMVP, LEED GA, Senior Energy Analyst, JLL - Corporate Solutions</p> <p><b>9:30 - 10:00AM</b> <b>Designing and Implementing a Corporate-Wide Energy Savings Program through Retro- and Monitoring-Based Commissioning and Lighting Savings Initiatives</b></p> <p>Vaibhav Gagrani, PE, CEM, LEED AP, Director Energy &amp; Waste Management, Universal Health Services</p> <p><b>10:00 - 10:30AM</b> <b>Zero Net Energy Performance - Verification Lessons</b></p> <p>Jason E. Fierko, PE, LEED AP, CEM, Principal, Mechanical Engineer, EwingCole</p> <p><b>10:30 - 11:00AM</b> <b>Q&amp;A and Discussion</b></p>	<p>CHAIR: Robert Berninger, CEM, CEA, CSDP, Director - Plant Operations, Energy &amp; Engineering, Memorial Sloan Kettering Cancer Center</p> <p><b>9:00 - 9:30AM</b> <b>Compressed Air 101</b></p> <p>Lonnie W. Russell, CEM, REP, CLEP, Project Developer, ABM I Technical Solutions</p> <p><b>9:30 - 10:00AM</b> <b>Motors and VFDs: How They Work, When They Don't, and What You Can Do</b></p> <p>Thomas Sherman, CEM, CEA, CDSM, CCASS, President, Sustainable Energy Services, Inc.</p> <p><b>10:00 - 10:30AM</b> <b>Advancing Building Electrification Projects at an EPIC Scale</b></p> <p>Tracy M. Phillips, CEM, CDSM, CMVP, Director, Sustainable Real Estate Solutions</p> <p><b>10:30 - 11:00AM</b> <b>Renewable Technology 101</b></p> <p>Jessica Harris, CBCP, CEM, President, Harris Energy Solutions LLC</p>	<p>CHAIR: Terrence L. Rollins, MBA, CEM, Project Manager, RHC Global Energy Solutions</p> <p><b>9:00 - 9:30AM</b> <b>Energy Benchmarks &amp; Best Practices 2010-2020 &amp; Covid Factors</b></p> <p>Michael F Guerin, PE CEM, AIA, CFM, LEED-GA, GGP, President, Guerin Associates, Inc.</p> <p><b>9:30 - 10:00AM</b> <b>VHA Energy Engineer's Advisory Board Presentation - 2021</b></p> <p>Allan Federman, VHA Energy Engineer's Advisory Board, Chairperson, US Veterans Affairs</p> <p><b>10:00 - 10:30AM</b> <b>Easing Transitions between Flat Plate and Chiller: Strategies to Reduce Surge and Maintain Building Load Efficiently</b></p> <p>Chris Jackson, PE, LEED-AP, VP/Principal Engineer, ETC Group</p> <p>Bryan Lang, PE, CEM, Engineering Manager, ETC Group</p> <p><b>10:30 - 11:00AM</b> <b>Steps for Improving Air-Cooled and Water-Cooled Chiller Performance and Energy Efficiency</b></p> <p>Jim Crockett, PE, Sr. Project Engineer, ETC Group</p> <p>Greg Jimmie, Energy Engineer, ETC Group</p>

## Getting Around in New Orleans





# Friday, October 22nd | Conference Tracks 9:00 - 11:00 am

## TRACK D | ROOM: 217

### SESSION D3

#### ENERGY DIGITALIZATION

CHAIR: Alain Aoun, CEM, CBCP, BEP, CMVP, CAP, CLEP, CEA, REP, Co-Founder and COO, Blockchain Leaders

#### 9:00 - 9:30AM Success with IOT

David Long, PE, Building Services, Cromwell

#### 9:30 - 10:00AM Big Data = Big Opportunity for Energy Savings

John Romano, EVP of Sales, Autani, LLC

#### 10:00 - 10:30AM Blockchain Based P2P Financing Mechanism

Alain Aoun, Alain Aoun, CEM CBCP, BEP, CMVP, CAP, CLEP, CEA, REP, Co-Founder and COO, Blockchain Leaders

#### 10:30 - 11:00AM Q&A and Discussion

## TRACK E | ROOM: 220

### SESSION E3

#### LESSONS LEARNED FROM THE COVID-19 PANDEMIC

CHAIR: Richard G. Lubinski, CEM, CEA, CDSM, BEP, President, Think Energy Management, LLC

#### 9:00 - 9:30AM The Implications of New Tax Laws & Reforms for the Energy Industry in a Post-Covid World

Jacob Goldman, LEED, AP, Vice President/Chief Engineer, Energy Tax Savers, Inc.d/b/a R&D Tax Savers

#### 9:30 - 10:00AM Understanding Role of HVAC in the Spread of Viral Particles in Indoor Environments and Finding Ways to Inhibit Their Dissemination

Shubham Srivastava, Group Leader - Engineering Simulations Team, Rheem Manufacturing

#### 10:00 - 10:30AM Optimizing Energy Management and Sustainability within a post COVID-19 Environment

Michael F Guerin, PE CEM, AIA, CFM, LEED-GA, GGP, President, Guerin Associates, Inc.

#### 10:30 - 11:00AM Q&A and Discussion

## TRACK F | ROOM: 221

### SESSION F3

#### LESSONS FROM LIGHTING UPGRADES + CREATIVE FINANCING TECHNIQUES

CHAIR: Robert T. Meier, PE, Business Development Manager, SourceOne

#### 9:00 - 9:30AM Maximizing the EPCAT 179D Tax Deductions for Energy Efficient Buildings & Related Incentives.

Cindy Blumenfeld, Director, Engineered Tax Services

#### 9:30 - 10:00AM NOVA College-Wide LED Retrofit Project

Miles D. Smith, CEM, CEA, C.MVP, Senior Project Manager, Energy, CBRE | Heery@NVCC

#### 10:00 - 10:30AM The Truth about LED and UV

Omar Rivera, Senior Vice President Market Development of Product & Technology, Orion Energy Systems

#### 10:30 - 11:00AM Innovative Financing: Using CPACE and Tax Incentives to Fund Your Energy Project

Daniel Audette, CEM, LEED GA, President, DA Energy Modeling

## Nothing else compares to the Dynamic V8®

- We can cut fan energy in half
- 2/3 less fan energy than MERV 14 filters
- Extends filter service intervals from months to YEARS
- Better IAQ with MERV 15 performance
  - Removes ultrafine particles, VOCs, and pathogens including viruses



AIR CLEANING SYSTEM

**Dynamic**  
Air Quality Solutions

Visit [DynamicAQS.com](http://DynamicAQS.com)

The Science of Clean Air.

## WATTNODE®

### AC Energy Meters & Current Transformers



Revenue-Grade sub-metering, multiple communication options, bi-directional for production & consumption



Revenue-Grade, economical, customizable for OEM applications



Solid-core revenue-grade current transformers for inverter installations



**NEW C0.2 Accuracy**  
Split-core revenue grade current transformers



**NEW DESIGN!**  
Rogowski coil CTs for difficult installations

Visit us at AEE • Booth 609

**Continental Control Systems, LLC**

1-888-WattNode (928-8663) • [ctlsys.com](http://ctlsys.com)

Colorado, USA



## We Are AEE

Energy professionals worldwide trust the Association of Energy Engineers (AEE) to promote the interests of those engaged in the energy industry and to foster action for sustainable development. Our members operate in the dynamic fields of energy engineering, energy management, renewable and alternative energy, power generation, energy services, sustainability, and all related areas.



Join **Our Community**

Find us on Social Media or visit...

[aeecenter.org/membership](https://aeecenter.org/membership)

### Active Involvement

**28,000+** Members & Certified Professionals

### Active Certifications

**32,000+** Recognized & Accredited Certifications

### Global Presence

**100+** Countries

### Local Level Commitment

**100+** Chapters

### Growing Base

**40+** Student Chapters

## Floorplan and Exhibitors

**Accuenergy**  
Booth #101

**2G Energy**  
Booth #406

**AB Energy USA, LLC**  
Booth #512

**Abraxas Energy Consultants**  
Booth #418

**AEE Exhibit Sales**  
Booth #124

**Aeroseal, LLC**  
Booth #330

**Aptim**  
Booth #200

**AWEB Geo/Slim Jim**  
Booth #231

**BrainBox AI**  
Booth #113

**CARLO GAVAZZI, Inc.**  
Booth #413

**Case Controls - iZ Systems**  
Booth #612

**Clockworks Analytics**  
Booth #534

**Coffee Station**  
Booth #621

**Continental Control Systems**  
Booth #609

**CR Magnetics**  
Booth #424

**Dude Solutions**  
Booth #119

**Dynamic Air Quality Solutions**  
Booth #428

**EFinity (Capstone)**  
Booth #206

**eLuminaire**  
Booth #213

**Emme Controls**  
Booth #407

**EMPEQ**  
Booth #335

**Entergy | Entergy Solutions | Energy Smart**  
Booth #201

**eSight Energy Inc.**  
Booth #307

**Ever-active**  
Booth #319

**EZ Meter Technologies**  
Booth #434

**FS-Curtis**  
Booth #435

**Granite Telecommunications**  
Booth #207

**Honeywell**  
Booth #301

**Honeywell - E-Mon**  
Booth #110

**Hurst Boiler**  
Booth #325

**I-Star Energy Solutions**  
Booth #106

**Innovative Insulations**  
Booth #524

**INSTAR North America, LLC**  
Booth #530

**J&D Electronics**  
Booth #513

**Kitchen Energy Solutions**  
Booth #306

**Martin Energy Group**  
Booth #400

**NEO® | Net Energy Optimizer**  
Booth #329

**Onset**  
Booth #311

**Orion Energy Solutions**  
Booth #601

**Poster Sessions**  
Booth #501

**Regency Lighting**  
Booth #219

**Resolute Building Intelligence**  
Booth #118

**River Publishers**  
Booth #218

**Rovanco Piping Systems**  
Booth #605

**Shannon Global Energy Solutions**  
Booth #114

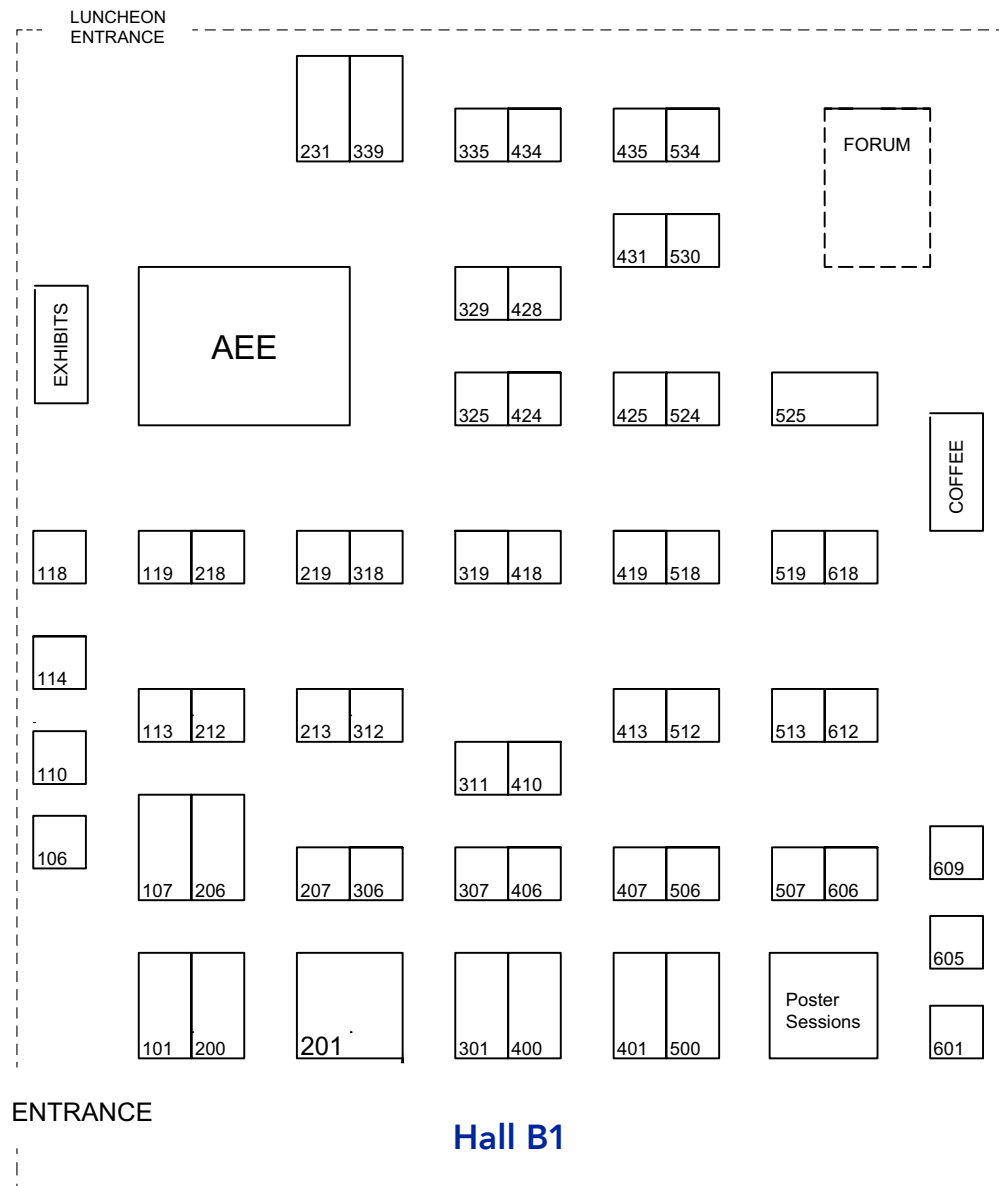
**SkyFoundry**  
Booth #312

**ThermaXX**  
Booth #425

**TLV Corporation**  
Booth #519

**World Energy Innovations**  
Booth #107

**Yardi**  
Booth #525



**Hall B1**



# What's Next...

## 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 2022 Conferences and Expos
- Connect with event attendees, and speakers on AEE's social media channels

**AEE** ENERGY  
CONFERENCE & EXPO

**East**



## Cincinnati, OH

**March 23-24, 2022**

Duke Energy Convention Center

[aeeeast.org](http://aeeeast.org)

**AEE** ENERGY  
CONFERENCE & EXPO

**West**



## Seattle, WA

**June 15-16, 2022**

Washington State Convention Center

[aeewest.org](http://aeewest.org)

**AEE** ENERGY  
CONFERENCE & EXPO

**WORLD**



## Atlanta, GA

**Conference Sept. 21-23, 2022**

**Expo Sept. 21-22, 2022**

Georgia World Congress Center

[aee.world.org](http://aee.world.org)

**AEE** ENERGY  
CONFERENCE & EXPO

**Europe**



## Dublin, Ireland

**Oct. 26-27, 2022**

Citywest Convention Center

[europe.aeecenter.org](http://europe.aeecenter.org)

# 2022 ENERGY EVENTS

**Mark Your  
Calendars**



 **SCAN ME**



**Get In Touch**

[aeecenter.org/events](http://aeecenter.org/events)