

East

Big Energy Picture Conference Program

Opening Session

Wednesday, March 20th

Room 210 | Chair: Samer Zawaydeh



9:10 - 9:20 am

Welcome from AEE

Bill Kent

C.E.M., Executive Director,
Association of Energy Engineers



9:20 - 9:45 am

Energy Policy Update

Judith Judson

Commissioner,
Massachusetts Department
of Energy Resources



9:45 - 10:10 am

Bringing Energy to Life

Carlos Nouel

VP Innovation & Development,
National Grid



10:10 - 10:35 am

Energy Issues Matter in
Real Estate, from the Boiler
Room to the Board Room

Ben Myers

Director, Sustainability, Boston Properties

Presented by



Association of Energy Engineers

Energy Company Partner



Gold Sponsor



Silver Sponsor



#1 Energy Efficiency Provider in the Nation

—According to Ceres, 2016 Benchmarking Utility Clean Energy report

CWEEL Sponsor



Corporate Energy Leaders



March 20-21, 2019 | Hynes Convention Center | Boston, MA

Special Events & Conference Track Sessions

Wednesday

March 20th

8:00 am
Opening Session
Networking
Continental Breakfast

OUTSIDE ROOM 210

Enjoy coffee & network with colleagues prior to the opening session.

12 noon - 1:30 pm
Conference
Attendee
Luncheon

AUDITORIUM & HALL C

Network with attendees, exhibitors & speakers.

4:00 - 6:00 pm
Opening Night
Networking
Reception

EARLS AT PRUDENTIAL

Network with attendees, exhibitors & speakers.

AEE East Conference Track Sessions | HYNES CONVENTION CENTER, BOSTON | 2:00 - 4:00 pm

TRACK 1: Leading Edge Initiatives

ROOM 200

Session 1A

Energy Efficiency Solutions for Industrial Customers

Chair: Lori Moen, C.E.M., C.E.P., NCSBA, Manager, Solutions Design & Mgmt, Customer Energy, Seattle City Light

2:00 - 2:30pm

Real World Industrial Energy Efficiency – How McCormick Sustainability Produces Your Favorite Spices & Seasonings
Jeff Blankman, McCormick & Company

2:30 - 3:00pm

50001 Ready: Double Your Energy Performance Improvement!
Jay Wrobel, U.S. Department of Energy

3:00 - 3:30pm

3M Energy Management System through ISO 50001 & Superior Energy Performance
Andrew J. Hejnar, 3M Canada

3:30 - 4:00pm

Creating Dynamic Teams to Achieve Energy Conservation on the Manufacturing Floor
Jeffrey Stolz, Raytheon Company

TRACK 2: Advanced Energy Solutions

ROOM 201

Session 2A

CHP from Massive to Micro

Chair: Brooke Smallwood, Senior Business Development Manager, AECOM

2:00 - 2:30pm

Big Power in a Small Package – The Rise of Micro-CHP

Brooke Smallwood, AECOM & Paul Rice, Lochinvar LLC

2:30 - 3:00pm

Supply & Demand Side Energy Management Successes at the University of Texas at Austin

Adam Keeling, & Nick Schroeder, University of Texas at Austin

3:00 - 3:30pm

Combined Heat & Power in Multi-Residential Buildings: An Overview

Kadra Branker, CLEARResult Canada, Inc.

3:30 - 4:00pm

Energy Savings from Large Scale CHP
Robert Timmerman, R W Timmerman & Associates

TRACK 3: Big Data & IoT

ROOM 202

Session 3A

Analytics & Understanding the Results

Chair: Steve Nguyen, Vice President, Marketing & Product, BuildingIQ

2:00 - 2:30pm

Alexa Has Left the Building – Because IoT is So Much More

Andy McMillan, BACnet International

2:30 - 3:00pm

Why Big Indoor Ag Needs Big Data

Morgan Abraham, Private Consultant

3:00 - 3:30pm

Digital Twinning for a Better Building IoT

Steve Nguyen, BuildingIQ

3:30 - 4:00pm

Big Data Meets Boots on the Ground

Rebecca S. Hughes, New York Power Authority & Thomas Lanzilotta, Stony Brook University

TRACK 4: Energy Services

ROOM 203

Session 4A

Energy Auditing

Chair: Fredric S. Goldner, C.E.M., C.E.A., President, Energy Management & Research Associates

2:00 - 2:30pm

A Study on the Impact of Power Factor Estimates on Energy Savings

Nathan Eason & Victor M. Alas Jr., Lockheed Martin

2:30 - 3:00pm

Benchmarking for Labs: Not Just a Waste of Your Audit Budget

Allison Farmer, kW Engineering

3:00 - 3:30pm

Weather Correlations and Energy Use Breakdown

Dan Birleanu, ERS

3:30 - 4:00pm

Campus Wide Energy Auditing

Philip Jonat, WSP

TRACK 5: Energy Manager's Summit

ROOM 206

Session 5A

Energy Manager's Critical Issues Forum

Chair: Richard J. Costello, P.E., C.E.M., MSEM, BSME, President, Acela Energy Group, Inc.

2:00 - 2:30pm

The Art of Implementing & Facilitating a Sustainable Energy Management Program & Process

Thomas T. Tolen, TIER REIT

2:30 - 3:00pm

Top-Down Engagement: How Utilities Can Better Engage Hard to Reach C&I Customers

Noel Chambers, Eversource Energy

3:00 - 3:30pm

Portfolio Energy Management for Fortune 500 Clients: Emerging Trends & Goals

Mathew Chamish, JLL

3:30 - 4:00pm

Partnering with the Air Force on Energy Resilience Initiatives

David Irwin, U.S. Air Force Office of Energy Assurance

Expo Hours: 10:00 am - 4:00 pm

Thursday
March 21st

7:30 - 9:00 am
CWEEL Breakfast
ROOM 210

A program for women professionals
& women-owned companies.

Join us for a FREE breakfast & case studies of
successful women-owned businesses in the marketplace.



**Badges of Leadership: What You Need
to Earn to ADVANCE Your Career**

Penni Conner
Chief Customer Officer
Eversource



*Council on Women in Energy
& Environmental Leadership*

AEE East Conference Track Sessions 9:00 - 11:00 am

TRACK 1: Leading Edge Initiatives ROOM 200	TRACK 2: Advanced Energy Solutions ROOM 201	TRACK 3: Big Data & IoT ROOM 202	TRACK 4: Energy Services ROOM 203	TRACK 5: Energy Manager's Summit ROOM 206
<p>Session 1B Blockchain & Bitcoin Chair: Samer Zawaydeh, Independent Engineer 9:00 - 9:30am Blockchain for Energy Efficiency Leopoldo Molina, Central University of Venezuela 9:30 - 10:00am Integrating a Virtual Energy Currency in Energy Ecosystems Haris Doukas, National Technical University of Athens 10:00 - 10:30am Blockchain Technology Coupled with Energy Demand for Buildings & Transportation – Case Study Samer Zawaydeh, Independent Engineer 10:30 - 11:00am Low Energy Home in Kuwait Iqbal Ahmed, Ministry of Electricity and Water</p>	<p>Session 2B Natural Gas Demand Response Chair: Brett S. Feldman, C.E.M., C.D.S.M., C.S.D.P., Research Director, Energy, Navigant Research 9:00 - 9:30am Evolving Utility Rate Design Edward Regan, Strategic Utility Management LLC 9:30 - 10:00am Peak Demand Charge Mitigation with Natural Gas Engine Driven Chillers Stephen Lafaille, Tecogen 10:00 - 10:30am Gas Demand Response – The Next Frontier Kurt Roth, Fraunhofer Center for Sustainable Energy Systems CSE 10:30 - 11:00am Gas Demand Response Andrew Nih, Southern California Gas Company</p>	<p>Session 3B Shaping Energy Systems of the Future Chair: Scott Dunning, Ph.D., P.E., Professor and Director, School of Engineering Technology, University of Maine 9:00 - 9:30am Who's Data is it Anyway? Leveraging the Cloud to Unlock Your Building Services Information Gord Echlin, Triacta Power Solutions 9:30 - 10:00am How Might Energy Production & Energy Distribution Evolve in the Future? Scott C. Dunning & David Dvorak, University of Maine 10:00 - 10:30am Crowd-sourcing Accountability Adam Jacobs, City of Boston 10:30 - 11:00am Utility Interconnection Challenges to Investors, Builders, & O&M in the Age of High Penetration Distributed Energy Resources (DER) James Bing, NEO Vitus Engineering</p>	<p>Session 4B Commissioning & M&W Chair: Saverio Grosso, C.E.M., C.E.A., E.B.C.P., Vice President, Edison Energy Company 9:00 - 9:30am Accuracy in Energy Modeling: Shining a Light in an Industry Black Box John Nott, Griffith Engineering, Inc. 9:30 - 10:00am Lessons Learned in Measurement & Verification of C&I Projects Kimia Yeganeh, CLEAResult 10:00 - 10:30am Next Generation Analytics for Real-Time Optimization & Predictive Monitoring – Real Energy Savings & Reliability Today Mark Pipher, FacilityConneX 10:30 - 11:00am Commissioning Model of the Future: Utilizing Fault Detection & Diagnostic (FDD) Software to Support Monitoring-based Commissioning (MBCx) & Continuous Building Optimization Peter Serian, CopperTree Analytics</p>	<p>Session 5B Energy Basics Chair: Asit Patel, C.E.M., C.E.A., E.B.C.P., President, ANP Energy Consulting Services Corp. 9:00 - 9:30am The Use of Active Desiccant Wheels Regenerated by Waste Heat in Dedicated Outdoor Air Systems Andrew Kozak, Bard, Rao + Athanas 9:30 - 10:00am VFD Driven Centrifugal Chiller – Two Case Studies with Positive & Negative ROI Nickola Jovic, VEIC 10:00 - 10:30am Electric Motors – How they Work; When they Don't; How to Reduce Operating Costs Thomas Sherman, Sustainable Energy Services, Inc. 10:30 - 11:00am Nine Areas of Compressed Air Systems Optimization Opportunities Based on International Case Studies Albert Williams, Self Employed</p>

Expo Hours: 10:00 am - 2:00 pm

12 noon - 1:30 pm

Conference
Attendee
Luncheon

AUDITORIUM & HALL C
Network with attendees,
exhibitors & speakers.

AEE New England
Chapter Luncheon*

ROOM 210

Join us for luncheon, a chapter
meeting & presentation.



Comprehensive Energy Plan:
Commonwealth and Regional Demand Analysis
Joanna Troy
Manager of Policy Initiatives
Massachusetts Department of Energy Resources



AEE East Conference Track Sessions 2:00 - 4:00 pm

TRACK 1: Leading Edge Initiatives ROOM 200	TRACK 2: Advanced Energy Solutions ROOM 201	TRACK 3: Big Data & IoT ROOM 202	TRACK 4: Energy Services ROOM 203	TRACK 5: Energy Manager's Summit ROOM 206
<p>Session 1C Renewables & Energy Storage Chair: Catherine Luthin, President, Luthin Associates, Inc. 2:00 - 2:30pm Energy Storage for the Clean Energy Future Stuart Nachmias, Consolidated Edison Company of NY, Inc. 2:30 - 3:00pm Transforming the Future of New York's Electricity System with Renewables & Storage Doug Staker, Demand Energy 3:00 - 3:30pm Utilizing Energy Service Agreements to Implement Energy Savings Measures Rakesh Parasuraman, Luthin Associates, Inc. 3:30 - 4:00pm Integrating Solar Power with Thermal Storage at the Thomas E. Creek VA Medical Center Samuel E. Hagins, Thomas E. Creek VA Medical Center</p>	<p>Session 2C Using Microgrids to Advance our Energy Systems Chair: Alberto Ramos Millan, Ph.D., C.E.M., University Professor, Technical University of Madrid 2:00 - 2:30pm Optimal Microgrid Solutions for Complex Power Distribution Networks – Case Study of Clarkson Ave. Microgrid Distributed Energy Resources (DERs) Selection, Sizing, & Optimization Shiqiong Tong, Sr. Electrical Engineer 2:30 - 3:00pm Integration of Solar Self-Consumption Alberto Ramo Millan, Technical University of Madrid 3:00 - 3:30pm Microgrids in the Wild: Real World Case Studies in Distributed Generation Preeti Pande, Bloom Energy 3:30 - 4:00pm The Utility of the Future: New Technology, New Utility Programs, & New Services Glenn Remington, Consumer Energy</p>	<p>Session 3C Improving Energy Performance through Metering & Data Analytics Chair: David R. Chamberlain, P.E., C.E.M., Principal Energy Engineer, Raytheon Company 2:00 - 2:30pm Insights on Equipment Metering & Analytics James Majsak, Groom Energy 2:30 - 3:00pm IoT & Metering: Making Metering Easy Using Wireless Communications Mike Easton, QMC Submetering Solutions 3:00 - 3:30pm Data Driven Commissioning, Fault Diagnostics, Energy Analytics & M&V Denis O'Connor, GBS Facilities Engineering, Raytheon Company 3:30 - 4:00pm Using the Smart Metering System to Save Energy Malador M. Sowe, Disruptive Energy Services</p>	<p>Session 4C Policy, Programs, & Financing... Chair: Tyson Slocum, Director, Energy Program, Public Citizen, Inc. 2:00 - 2:30pm Energy Code Evolution in Canada Andrew Pride, Andrew Pride Consulting & Alina Racoviceanu, Smith + Anderson 2:30 - 3:00pm From EaaS to C-PACE, the New ABC's of Energy Financing Amanda Samai, Strategic Partnerships, Hannon Armstrong Sustainable Real Estate & co speaker: James Fiorentino, Counterpointe SRE Correspondent 3:00 - 3:30pm Deciphering ISO-NE, NEPOOL, CASPR & FERC: Understanding the Acronyms Drive New England Energy / Climate Policy Tyson Slocum, Energy Program, Public Citizen, Inc. & Mike Jacobs, Union of Concerned Scientists 3:30 - 4:00pm Perspectives on Electric Policy and Consumer Protections in the New England Power Market by the Office of Attorney General for Massachusetts Rebecca L. Tepper, Massachusetts Attorney General's Office</p>	<p>Session 5C High Performance Buildings Chair: Kristin Sullivan, U.S. Sustainability Manager, TD Bank 2:00 - 2:30pm Beyond the BTUs Kristin Sullivan, TD Bank & Jamal Johnson, Liberty Property Trust 2:30 - 3:00pm Virtual Closed Loop Control for Adaptive Energy Management in Retail Buildings Paul Campbell, PhoenixET 3:00 - 3:30pm Best-In-Class Corporate Energy Management Programs Jennifer Fortenberry, JLL Energy Services 3:30 - 4:00pm Information & Optimization, A Pragmatic & Profitable Decision for Building Owners William Davidson & Mark Gallagher, Services, Armstrong Fluid Technology</p>

* Registration is included for all paid conference attendees and is \$20 for all others.