

Monday, November 6	
10:00 am	Workshops Registration Opens – Georgian Coat Room
10:00 am – 3:00 pm	Exhibitor Setup Opens – Grand Ballroom B
1:00 pm – 5:00 pm	Pre-Conference Workshops
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Workshop 1: Business Models & Financing for Microgrid Deployment <i>Location: Georgian Room</i> <i>Moderator: Baird Brown, Drinker Biddle & Reath</i></p> <p>This workshop will focus on best practices in economic, business model innovation and risk mitigation strategies.</p> </div> <div style="width: 45%;"> <p>Workshop 2: Cities Powered by Microgrids – Getting from Concept to Implementation <i>Location: Arlington/Berkeley/Clarendon</i> <i>Moderator: Chris Evanich, S&C Electric</i></p> <p>This workshop will delve into what it takes to move a microgrid from concept and vision, through to design and implementation.</p> <p>Sponsored by S&C Electric</p> </div> </div>
1:00 pm – 1:40 pm	<div style="display: flex;"> <div style="width: 50%;"> <p><u>Microgrid Implementation Models & Inverting the Microgrid Risk Proposition</u> - <i>Joe Sullivan, Concord Engineering</i></p> </div> <div style="width: 50%;"> <p><u>Getting To “Microgrid-Ready”</u> What does it take to put together a well-performing Microgrid?</p> </div> </div>
1:40 pm – 2:40 pm	<div style="display: flex;"> <div style="width: 50%;"> <p><u>Panel Discussion: Financing, De-Risking, and Investing in Microgrids</u> Microgrids face many recurring financial barriers preventing a faster rate of market uptake. Panelists will discuss the risks, financial challenges and solutions for investing in microgrids. Panelists include: Coleman Adams, Crescendo Power Soam Goel, Anbaric Sudipta Lahiri, DNV GL Clark Wiedetz, Siemens</p> </div> <div style="width: 50%;"> <p>Technical Considerations – <i>Michael Higginson, S&C Electric</i> Stakeholder Engagement for Success and PEER as a Tool for Microgrid Performance– <i>Stephanie Pine, IPERC</i></p> </div> </div>
2:40 pm – 3:10 pm	<div style="display: flex;"> <div style="width: 50%;"> <p><u>Microgrids: Delivering a Smarter, Cleaner and More Resilient Grid Infrastructure</u> – <i>Doug Staker, Demand Energy Networks</i></p> </div> <div style="width: 50%;"> <p><u>Panel Discussion: Cities and Microgrids</u> Thermal and electric resiliency are driving cities to consider Microgrid solutions. Panelists will provide insights, opportunities and challenges. Panelists include: Galen Nelson, MassCEC Brad Swing, City of Boston Michael Higginson, S&C Electric Stephanie Pine, IPERC</p> </div> </div>
3:10 pm – 3:40 pm	Coffee & Refreshment Break for Workshop Participants – Exeter Foyer Sponsored by Crescendo Power
3:40 pm – 4:10 pm	<div style="display: flex;"> <div style="width: 50%;"> <p><u>So You Want To Be Your Own Utility?</u> - <i>Chilkoot Ward, University of Alaska Fairbanks</i></p> </div> <div style="width: 50%;"> <p><u>NY Prize and Transit Oriented Microgrids</u> – <i>Michelle Isenhouer Hanlin, Booz Allen Hamilton</i></p> </div> </div>
4:10 pm – 4:40 pm	<div style="display: flex;"> <div style="width: 50%;"> <p><u>Microgrids Bring Certainty to Healthcare</u> - <i>Steve Pullins, Dynamic Energy Networks</i></p> </div> <div style="width: 50%;"> <p><u>Political, Financial and Technical Considerations of a Municipal Multi-User Microgrid</u> - <i>Douglas Nordham, Arup North America</i></p> </div> </div>
4:40 pm – 5:10 pm	<div style="display: flex;"> <div style="width: 50%;"> <p><u>Case Study of an Automated Power Distribution System Serving a Medical Center Campus</u> - <i>Stephen Bowman, Wiley Wilson</i></p> </div> <div style="width: 50%;"> <p><u>Making the Microgrid - Utility Relationship Work</u> - <i>Peter Falcier, GI Energy</i></p> </div> </div>
5:10 pm – 6:30 pm	Welcome Reception with Business Partner Exhibitors – Grand Ballroom B

	Sponsored by BOND and GE
Tuesday, November 7	
7:00 am	Conference Registration – Georgian Coat Room
7:15 am – 7:45 am	Speaker/Moderator Orientation – Constitution Room (4 th Floor)
7:00 am – 8:00 am	Continental Breakfast with Business Partner Exhibitors – Grand Ballroom B Sponsored by Milton CAT
8:00 – 8:10 am	Conference Opening/Introductions – Rob Thornton, President & CEO, IDEA
	<u>Opening Plenary Panel: Mission-Critical Microgrids Today – An Operational View</u> <i>Location: Grand Ballroom A</i> <i>Moderator: Rob Thornton, IDEA</i>
8:10 am – 9:00 am	Mission-critical microgrids are in operation supporting life sciences, manufacturing, research, institutions and world-class healthcare. What are the keys to success – In design and development? In operation? In financing and economics? In reliability? In optimization? Panelists include: <ul style="list-style-type: none"> • John Baker, Associate Vice Chancellor of Facilities, UMASS Medical School • Jack Griffin, Vice President & General Manager Boston, SourceOne (a Veolia Company) • John Kelliher, Senior Plant Engineer, Biogen • Robert Manning, Director of Engineering & Utilities, Harvard University • Randy Preston, Director University Energy Project, Tufts University • Doug Staker, Vice President, Global Business Development, Demand Energy Networks
	<u>Plenary Panel 2: Accelerating a Microgrid Market – How Do We Get There From Here?</u> Leadership Roundtable <i>Location: Grand Ballroom A</i> <i>Moderator: Elisa Wood, Microgrid Knowledge</i>
9:00 – 9:50 am	Enabling technologies, adaptive business models, innovative partnerships and customer needs are driving market penetration for microgrids and other non-wires alternatives (NWA's). What are the key building blocks and market drivers? What regulatory impediments need attention? How can industry leaders best catalyze change? Invited panelists include: <ul style="list-style-type: none"> • Michael Bakas, Senior Vice President, Ameresco • Michael Carlson, President, Digital Grid North America, Siemens • Mike Kilpatrick, Vice President – Power Systems, S&C Electric • Jim Lodge, Vice President, Strategy & Business Development, NRG Thermal • Kevin Self, SVP Strategy, Business Development & Government Affairs, Schneider Electric
9:50 am – 10:10 am	Refreshment Break with Business Partner Exhibitors – Grand Ballroom B Sponsored by GI Energy
	<u>Plenary Panel 3: The Grid of the Future – A Regulatory Perspective</u> <i>Location: Grand Ballroom A</i> <i>Moderator: Christopher Berendt, Drinker Biddle & Reath</i>
10:10 am – 11:00 am	As more customers seek enhanced resiliency, energy security and operational flexibility, the utility industry is experiencing profound change in regulations and business models. How are regulators balancing the needs for innovation and modernization with consumer protection and investor confidence while enabling development of the “grid of the future”? What are

	<p>the emerging regulatory models for microgrid deployment? How can industry inform, advise and support appropriate regulatory reform? What is the path ahead? Invited panelists include:</p> <ul style="list-style-type: none"> • Upendra Chivukula, <i>Commissioner, NJ Board of Public Utilities</i> • Macky McCleary, <i>Administrator, RI Division of Public Utilities and Carriers</i> • Stephen Pike, <i>Chief Executive Officer, MA Clean Energy Center</i> • Joe Sullivan, <i>Vice President, Concord Engineering Group</i> 	
	1A Military Microgrids <i>Location: Georgian Room</i> <i>Moderator: Clark Wiedetz, Siemens</i>	1B Microgrid Architecture <i>Location: Arlington/Berkeley/Clarendon</i> <i>Moderator: Travis Sheehan, Gridling</i>
11:00 am – 11:30 am	<u>Developing Economically Viable & Resilient Microgrids</u> – <i>Eliot Assimakopoulos, GE Power</i>	<u>Self-Sufficient High-Resilience Microgrids</u> - <i>Bob Beaton, Primus Power</i>
11:30 am – 12:00 pm	<u>Portsmouth Naval Shipyard - History of a Microgrid</u> - <i>James Redden & Troy Wilsey, Ameresco</i>	<u>Microgrid Protection Challenges</u> - <i>John Kumm, POWER Engineers</i>
	2A The Evolving Microgrid Market <i>Location: Georgian Room</i> <i>Moderator: Suresh Jambunathan, Veolia</i>	2B Microgrids in Action from Campuses to Casinos <i>Location: Arlington/Berkeley/Clarendon</i> <i>Moderator: Scott Clark, Burns & McDonnell</i>
12:00 pm – 12:30 pm	<u>Use Of Stationary Fuel Cells as the Backbone of the Modern Microgrid-</u> <i>Michael Palmer, FuelCell Energy, Inc.</i>	<u>Education Uninterrupted: Creating Campus Microgrids for Schools and Universities</u> – <i>John Merritt, Ideal Power</i>
12:30 pm – 1:00 pm	<u>The Key Role of CHP in Microgrid Systems</u> - <i>William Steigelmann & Roger Huggins, Lockheed Martin</i>	<u>The Blue Lake Rancheria Microgrid: Challenges and Successes in Designing, Building, and Operating a Remote Community Microgrid</u> - <i>Max Majkowski, Siemens</i>
1:00 pm – 2:15 pm	<p><u>Keynote Luncheon Address: Anne Pramaggiore, President & CEO, Com Ed</u> – Grand Ballroom A</p> <p>Anne Pramaggiore is President and CEO of ComEd, an electric utility company delivering electricity to 3.8 million customers in Chicago and Northern Illinois. A recognized industry leader and voice for innovation, Ms. Pramaggiore will share insights on the evolution of the electric utility industry and the emergence of new technologies, including the role of distribution utilities in integrating microgrids into the larger grid.</p> <p>Lunch Sponsored by Siemens Keynote Address Sponsored by Ameresco</p>	
2:15 pm – 2:45 pm	<p>Dessert & Coffee with Business Partner Exhibitors – Grand Ballroom B Sponsored by Fairbanks Morse and Thermo Systems</p>	
	3A Microgrid Cases – Data Centers, Community Resiliency and Business Continuity <i>Location: Georgian Room</i> <i>Moderator: Terry Waldron, Waldron Engineering</i>	3B Designing Cyber-Secure Innovative Microgrids <i>Location: Arlington/Berkeley/Clarendon</i> <i>Moderator: James Redden, Ameresco</i>

2:45 pm – 3:15 pm	A Microgrid Case Study at a Data Center Using CHP, Solar, Wind and Energy Storage – David Heim, USA Microgrids	<u>Lessons Learned from Field Implementation of Three Utility Microgrids at Duke Energy</u> – Jason Handley, Duke Energy
3:15 pm – 3:45 pm	<u>Potsdam Microgrid – A Community Effort</u> – Jon Nickerson, National Grid	<u>MicroTurbine CHP in Microgrids</u> – Justin Rathke, Vergent Power Solutions
3:45 pm – 4:15 pm	Refreshment Break with Business Partner Exhibitors – Grand Ballroom B Sponsored by JCI and Waldron Engineering & Construction, Inc.	
	4A Microgrid Cases – Data Centers, Community Resiliency and Business Continuity (contd) <i>Location: Georgian Room</i> <i>Moderator: Andrew Bennett, Schneider Electric</i>	4B Designing Cyber-Secure Innovative Microgrids (contd) <i>Location: Arlington/Berkeley/Clarendon</i> <i>Moderator: Eliot Assimakopoulos, GE</i>
4:15 pm – 4:45 pm	<u>Urban Ingenuity's New Microgrid Extension Service for Washington, DC</u> - Shalom Flank, Urban Ingenuity	<u>Distributed Energy Resource (DER) Integration – Microgrid</u> - Tamer Rousan, Ameren
4:45 pm – 5:15 pm	<u>Integrating Multiple Generation Sources Such as Solar, Battery, and Cogeneration Systems</u> - Ben Locke, Tecogen	<u>Lessons Learned in Successful Microgrid Controls and Protection</u> - William Edwards, Schweitzer Engineering Laboratories, Inc.
5:15 pm – 7:00 pm	Reception with Business Partner Exhibitors – Grand Ballroom B Sponsored by G&W Electric and POWER Engineers, Inc.	
Wednesday, November 8		
7:00 am	Conference Registration Opens – Georgian Coat Room	
7:15 am – 7:45 am	Speaker/Moderator Orientation – Constitution Room (4 th Floor)	
7:00 am – 8:00 am	Continental Breakfast with Business Partner Exhibitors – Grand Ballroom B Sponsored by Massachusetts Clean Energy Center	
	5A Microgrid Modeling – Technical, Economic and Regulatory <i>Location: Georgian Room</i> <i>Moderator: David Musto, Thermo Systems</i>	5B Innovative Approaches for MG Markets <i>Location: Arlington/Berkeley/Clarendon</i> <i>Moderator: Kevin Normandeau, Microgrid Knowledge</i>
8:00 am – 8:30 am	<u>Microgrids – From Niche to Mass Market</u> – John Murray, Delta Energy & Environment <u>Distribution System Locational Performance Model</u> Lawrence Berkeley National Laboratory (LBNL) has been working with the industry to develop an innovative Distribution Grid	<u>Microgrids-as-a-Service: A New Approach to Unlock More Efficiency, Better Sustainability, and Higher Resiliency</u> – Mark Feasel, Schneider Electric

8:30 am – 9:00 am	<p>Locational Value Model to assist utilities, developers and regulators with evaluating the economic and operational impact of DER and microgrids. Project participants will provide an overview/update, including:</p> <ul style="list-style-type: none"> • Christopher Berendt, <i>Drinker Biddle Reath, MRC</i> • Gonçalo Cardoso, <i>Lawrence Berkeley National Lab</i> 	<p>Innovative Utility Partnership - Tufts University CHP Microgrid – <i>Randy Preston, Tufts University; John Webster, ICETEC; Bruce Edwards & Gerald Ferris, National Grid</i></p>
	<p>6A Policy and Progress in the States <i>Location: Georgian Room</i> <i>Moderator: Joe Sullivan, Concord Engineering</i></p>	<p>6B Mother Nature’s Mayhem Recharges Microgrid Message <i>Location: Arlington/Berkeley/Clarendon</i> <i>Moderator: Ken Horne, Navigant</i></p>
9:00 am – 9:30 am	<p>NY Prize Stage 2 Projects Update - <i>Tom Bourgeois, DOE NE CHP TAP</i></p>	<p>The hurricanes of 2017 are supercharging the microgrid message. What’s next for Texas, Florida and Puerto Rico? Panelists will discuss what it takes to prepare, endure, and recover in these times of weather uncertainty.</p> <ul style="list-style-type: none"> • Ted Borer, <i>Princeton University</i> • Jason Handley, <i>Duke Energy</i> • Chip Palombini, <i>Dynapower</i> • Jay Wrobel, <i>Office of Energy Efficiency & Renewable Energy, DOE</i>
9:30 am – 10:00 am	<p>Working With Utilities in a Complex Regulatory Environment - <i>C. Baird Brown, Drinker Biddle & Reath; MRC</i></p>	
10:00 am – 10:30 am	<p>Refreshment Break with Business Partner Exhibitors – Grand Ballroom B Sponsored by Advisian and Concord Engineering</p>	
10:30 am – 1:30 pm	<p>Exhibit Breakdown – Grand Ballroom B</p>	
	<p>7A CHP District Energy Microgrids <i>Location: Georgian Room</i> <i>Moderator: Rich Rappa, CHA Consulting</i></p>	<p>7B Design Best Practices in Controls, Monitoring & Optimization <i>Location: Arlington/Berkeley/Clarendon</i> <i>Moderator: Chris Evanich, S&C Electric</i></p>
10:30 am - 11:00 am	<p>Optimizing District Energy Systems with CHP and Microgrid Controls - <i>Scott Higgins, Schneider Electric</i></p>	<p>Sustainability and Resiliency Drives Utility System Sharing - <i>Haig Monokian, Thermo Systems & Michael Thornton, Vanderweil Engineers</i></p>
11:00 am – 11:30 am	<p>CHP with Spinning Reserve - Core of a Larger Microgrid - <i>Suresh Jambunathan, Veolia</i></p>	<p>Optimization of Microgrid Assets Using Artificial Intelligence - <i>Terry Waldron, Waldron Engineering & Construction</i></p>
11:30 am – 12:00pm	<p>Climate Change and Resilient District Energy - <i>Tim Peer, BOND</i></p>	<p>Model-Based Online Power Management system - A key element of any Microgrid program – <i>Mohammad Zadeh, ETAP</i></p>
12:00 pm – 1:00 pm	<p>Networking Luncheon and Pre-Tour Briefing – Grand Ballroom A Sponsored by Demand Energy Networks, Inc.</p>	
	<p>8A Making Microgrids Work <i>Location: Georgian Room</i> <i>Moderator: Tim Peer, BOND</i></p>	<p>8B Storage Solutions <i>Location: Arlington/Berkeley/Clarendon</i> <i>Moderator: Sandeep Jain, Advisian</i></p>

1:00 pm – 1:30 pm	<u>Microgrid Islanding with CHP - The Evolution of a Project</u> - <i>Michael Dempsey, Burns & McDonnell</i>	<u>Understanding Microgrid & Energy Storage Feasibility Studies</u> - <i>John Vernacchia, Eaton</i>
1:30 pm – 2:00 pm	<u>Financial and Engineering Case Study of a Two-Sided Platform Business Model for Microgrids Using Existing CHP Facilities in Brooklyn and Queens</u> – <i>Guy Warner, Pareto Energy</i>	<u>The Future of Microgrids – How Energy Storage Systems Add Reliability and Efficiency</u> - <i>Björn Lang, Yunicos</i>
2:00 pm – 2:30 pm	<u>How End Users & Utilities Can Benefit Using CHP in Microgrid Applications-</u> <i>Chris Lyons, Solar Turbines</i>	<u>Energy Storage for Microgrids</u> - <i>Bill Sproull, ESS Inc</i>
2:30 pm – 2:45 pm	Area Microgrid Tours – Registered participants will board buses for departure promptly at 2:45 pm. Sponsored by Schneider Electric	
2:45 pm – 6:00 pm Tour D return - 6:30 pm	<p>Microgrid Technical Tours – Site visits to area microgrids. Planned locations include:</p> <ul style="list-style-type: none"> A) Harvard University CHP Microgrid at Blackstone Station, Cambridge B) MATEP CHP Microgrid at Longwood Medical Area C) Kendall Cogeneration Station AND Biogen CHP Pharmaceutical Microgrid, Cambridge D) Special Sponsor Tour of the Schneider Electric Boston One Campus Microgrid in Andover, MA. <p>Please register for one of four (1 of 4) tour locations. Each bus will visit one facility. Round trip bus returns to hotel at approx 6:00 pm. Tour D return time estimated 6:30 pm. Space availability will be limited and transit times estimated due to location and traffic variability.</p>	