



SHARING SOLUTIONS, SUSTAINING OUR FUTURE CampusEnergy2018

MARCH 5-9, 2018 ▲ HILTON BALTIMORE ▲ BALTIMORE, MD

Preliminary Program
TIMES AND CONTENT SUBJECT TO CHANGE

Monday, March 5

10:00 am – 7:00 pm	Registration Open – Key Ballroom East Foyer
10:30 am – 1:00 pm	CLOSED MEETING – IDEA Executive Committee Meeting & Lunch – Marshall Board Room
12:00 pm – 4:00 pm	CLOSED MEETING – IDEA Board of Directors Meeting & Lunch – Tubman AB
1:00 pm – 5:00 pm	Thermal Distribution Workshop – Separate registration fee required, see separate program for detailed content – Holiday 6 & Holiday 4-5
5:00 pm – 6:30 pm	Welcome Reception – For all Workshop participants (Distribution and Microgrid) and IDEA Board of Directors – Key Ballroom South Foyer <i>Sponsored by Danish District Energy Advisory</i>

Tuesday, March 6

7:00 am – 7:00 pm	Registration Open – Key Ballroom East Foyer
7:00 am – 8:00 am	Breakfast – For registered Distribution and Microgrid Workshop participants – Holiday 1-3
8:00 am – 5:00 pm	Thermal Distribution Workshop (contd) – Separate registration fee required, see separate program for detailed content – Holiday 6
8:00 am – 5:00 pm	Microgrid Workshop – Separate registration fee required. Please see separate program for detailed content – Holiday 4-5
12:00 pm – 4:00 pm	Exhibitor Table and Poster Exhibit Set Up – Key Ballroom 1-6
12:00 pm – 1:00 pm	Workshop Luncheon – For Distribution and Microgrid Workshop attendees only – Holiday 1-3
5:00 pm – 6:30 pm	Opening Reception for All Conference + Workshop Attendees with Business Partner Exhibitors – Key Ballroom 1-6 <i>Sponsored by Onicon & Solar Turbines</i>

Wednesday, March 7

7:00 am – 7:00 pm	Registration Open – Key Ballroom East Foyer
7:00 am – 7:45 am	Continental Breakfast with Business Partner Exhibitors – Key Ballroom 1-6 <i>Sponsored by WGL Energy Systems</i>

7:00 am – 7:30 am	Speaker Orientation Meeting – Johnson AB		
7:45 am – 8:00 am	Opening Session – Key Ballroom 7-12 Introductions – <i>Rob Thornton, IDEA President & CEO</i> Welcome to IDEA – <i>Chris Lyons, IDEA Chair</i> <i>Sponsored by ENGIE, Johnson Controls & NRG</i>		
8:00 am – 9:00 am	Panel Discussion – “Sharing Solutions, Sustaining Our Future” – Key Ballroom 7-12 Recognized campus energy leaders from across North America discuss topics such as emergency preparedness and response, designing for resiliency and sustainability, utility master planning and asset renewal. Hear how they are putting plans into action and sharing solutions to sustain our future. Panelists: Ted Borer, Princeton University Doug Garron, Harvard University Juan Ontiveros, University of Texas at Austin Kent Reifsteck, University of Illinois James Rosner, University of Denver David Woodson, University of British Columbia		
9:00 am – 9:30 am	Refreshment Break with Business Partner Exhibitors – Key Ballroom 1-6 <i>Sponsored by Stanley Consultants & The Advanced Manufacturing Office, U.S. Department of Energy</i>		
	Poster Exhibits – Key Ballroom South Foyer Presenters will be available by their posters to answer questions. Poster presentations and presenters are listed at the end of the program, they are also included in the conference mobile app.		
	1A – Planning & Renewal <i>Holiday 1-3</i> <i>Moderator: David Goetz, Burns & McDonnell</i>	1B – Combined Heat & Power (CHP) <i>Holiday 4-5</i> <i>Moderator: Tim Peer, BOND</i>	1C – District Cooling <i>Holiday 6</i> <i>Moderator: Bob Smith, RMF Engineering</i>
9:30 am – 10:00 am	Energy Master Planning Meets the Real World at the University of Calgary – <i>Tom Phelps, Stantec Consulting</i>	Don’t Freeze in the Dark - The University of Alaska Fairbanks CHP Story – <i>Mike Ruckhaus & Chilkoot Ward, University of Alaska Fairbanks</i>	Advancing the Milwaukee Regional Medical Center Thermal Systems – <i>Mike Burns, Ever-Green Energy; Bob Mlynarek, Milwaukee Regional Medical Center; Jay Ehrfurth, The Boldt Company</i>
10:00 am – 10:30 am	A Proactive Approach to Growth - Texas A&M Utility Master Planning Update – <i>Justin Grissom, Burns & McDonnell; Jim Riley, Texas A&M</i>	Lessons Learned from the Design, Construction and Implementation of CHP Projects Across the Country – <i>Kevin Fox, Jacobs Engineering Group Inc.</i>	District Chilled Water Optimization at Penn State Health, The Milton S. Hershey Medical Center – <i>Kevin Kanoff, Milton S. Hershey Medical Center; Jonathan Kosobucki, Optimum Energy</i>
10:30 am – 11:00 am	Integrating District Energy into the Redevelopment of the Walter Reed Campus – <i>Charles Miller, WGL Energy</i>	UMass Amherst – Electrical System Modifications Resulting in Increased Operating Reliability of CHP – <i>Kevin Fuller, CHA Consulting Inc.; Steve Grden, UMass Amherst</i>	Cost Effective Ways to Control Cooling Coils and Achieve Design Delta T – <i>Hemant Mehta, WM Group</i>

11:00 am – 11:30 am	Integrated Energy Portfolio – Optimizing Campus Energy Use and Procurement – Michael Prinkey, Penn State; Gregg Shively, PRX Energy	Resiliency, Reliability and Risk – CHP In a New Era of Value and Opportunity – Al DiGuillo & Douglas Millar, Edison Energy	Eliminating the High Cost of Over-Pumping in Thermal Distribution Systems – David Riffle, Belimo
11:30 am – 12:00 pm	Converted Turbine, New Boilers and Stacks: Reliable, Responsible, Ready for Growth – Steve Bennett, Affiliated Engineers; Mike Brewer & Mike Larson, University of Illinois; Scot Evans & Mike Williams, Kennedy Tank Manufacturing; Jim Nonnenman, PRVN Consultants, Inc.	Lessons Learned from Commissioning CHP Projects – Herb Tull, Jacobs Engineering Group Inc.	Putting Data in Context: How Cooling Coil Performance Data Can Influence Design – Jeff Creighton, Flow Energy
12:00 pm – 1:30 pm	Campus Energy Recognition and Networking Luncheon – Key Ballroom 7-12 Sponsored by Ameresco & Burns & McDonnell		
1:30 pm – 2:15 pm	Dessert & Coffee with Business Partner Exhibitors – Key Ballroom 1-6 Sponsored by Rentech Boiler Systems & RMF Engineering		
1:30 pm – 2:15 pm	Poster Exhibits – Key Ballroom South Foyer Presenters will be available by their posters to answer questions. Poster presentations and presenters are listed at the end of the program, they are also included in the conference mobile app.		
	2A – Emergency Preparedness and Resiliency Holiday 1-3 Moderator: Stephan Bowman, Wiley Wilson	2B – District Energy Carbon and Environmental Strategies Holiday 4-5 Moderator: Tom Phelps, Stantec Consulting	2C – System Expansion and Renewal Holiday 6 Moderator: Johnathan Coleman, Solar Turbines
2:15 pm – 2:45 pm	UTMB Galveston CHP Systems vs. Hurricane Harvey – Bryan Bagley & Lynn Crawford, Affiliated Engineers	Transforming GHG Emissions into Marketable Products – Bruce Ander, Markham District Energy; Peter Howard, Pond Technologies	Guaranteed Energy Savings Performance Project at Georgia Tech – Donald Alexander & Greg Spiro, Georgia Institute of Technology, Facilities Design & Construction
2:45 pm – 3:15 pm	UT Austin - DES Disaster Recovery Plan – Roberto Del Real, University of Texas at Austin	District Energy Engagement: What's the Big Deal About Pipes, Boilers, and Decarbonization? – Nina Axelson, Ever-Green Energy; Martha Larson, Carleton College; Meghan Riesterer, Oberlin College & Conservatory	DES Buildout to Support 100 Year Old Campus Expansion – Sarah Michaelson, Balfour Beatty Construction; Joe Witchger, HGA Architects and Engineers
3:15 pm – 3:45 pm	Emergency Response Planning for Aging Infrastructure – Jeff Easton, Burns & McDonnell; James Rosner, University of Denver	Dispatch-able CHP, District Energy, and a Duck – Eric Moe, UMC Energy & Environment	UC System Expansion and Renewal – Jacob Price & Kevin Voss, PRVN Consultants, Inc.
3:45 pm – 4:15 pm	Refreshment Break with Business Partner Exhibitors – Key Ballroom 1-6 Sponsored by Affiliated Engineers & Siemens		

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	3A – New Build, Commissioning and Optimization <i>Holiday 1-3</i> Moderator: Richard Rappa, CHA Consulting	3B – Integrating Renewable Energy <i>Holiday 4-5</i> Moderator: Nate Cesarz, Affiliated Engineers	3C – Controls and Automation <i>Holiday 6</i> Moderator: Kevin Fox, Jacobs Engineering Group
4:15 pm – 4:45 pm	District Heating Retrofits: Finding the Balance between Greenhouse Gas Reduction and Net Present Value – Jean-Philippe Drouin-Bouffard, Ecosystem; Christopher Powell, Brown University	Expanding Bioenergy, UBC's DES Goes Green – James Torcov & Joshua Wauthy, UBC	An Integrated Approach to Central Energy Plant Control Systems – Jeremy Shook, Burns & McDonnell
4:45 pm – 5:15 pm	Oklahoma State University's New Central Plan – From Master Plan to Completion – Vic Alford, Mike Hume & Ron Warner, Flintco; Phil Curley, Oklahoma State University; Brian Sauer, FSB	Geothermal Conversion - Ball State University – Mike Luster, MEP Associates	What is This Machine Learning Stuff, and How Can I Use it Today? – Brenton Dunham, John Rundell & Travis Smith, Smith Engineering
5:15 pm – 5:45 pm	The Art of Replacing Boilers and Chillers in a Central Plant Without Impact to Production Needs – Jay Ehrfurth, The Boldt Company	Meeting Campus Emissions Requirements with Landfill Gas as Primary Fuel for CHP – Dave Bowley, University of New Hampshire; Tim Donnelly & Tom Rolfson, POWER Engineers	How the Connected Plant Impacts Modern Power-Plant Operations – Tom McDonnell, Rockwell Automation
5:45 pm – 7:00 pm	Cocktail Reception with Business Partner Exhibitors – Key Ballroom 1-6 Sponsored by BOND & Jacobs		
7:00 pm – 10:00 pm	Offsite Dinner for All Registered Attendees – Oriole Park at Camden Yards Sponsored by ENGIE, Johnson Controls & NRG		

Thursday, March 8

7:00 am – 5:00 pm	Registration Open – Key Ballroom East Foyer		
7:00 am – 8:00 am	Continental Breakfast with Business Partner Exhibitors – Key Ballroom 1-6 Sponsored by The Whiting-Turner Contracting Company		
7:15 am – 7:45 am	Speaker Orientation Meeting – Johnson AB		
	4A – Innovative Financing and Emerging Business Models <i>Holiday 1-3</i> Moderator: Soam Goel, Anbaric Development Partners	4B – District Energy/CHP/Microgrids <i>Holiday 4-5</i> Moderator: Tom Parker, Burns & McDonnell	4C – Thermal Energy Storage <i>Holiday 6</i> Moderator: Henry Johnstone, GLHN Architects & Engineers
8:00 am – 8:30 am	Bridging the Gap: Campus-Community Partnerships and Business Structures – Michael Ahern, Ever-Green Energy	University of Maryland - Securing Our Networked Utility Infrastructure – Donald Hill & Mary Ann Ibeziako, University of Maryland College Park	Thermal Energy Storage "Down Under" – Guy Frankenfield, DNTanks; James Valiensi, P2S Engineering

8:30 am – 9:00 am	An Update on Financial Incentives for Energy Efficiency, CHP and District Energy Projects – Rod Schwass, Jacobs Engineering Group Inc.	Companies Utilizing Microgrids to Achieve Their Energy Strategies for the 21st Century – David Chiesa, S&C Electric	Thermal Energy Storage, a Sustainable Solution for District Growth and Future Energy Needs – John Strybos, Alamo Colleges
9:00 am – 9:30 am	Comprehensive Energy Management - A New Model – Serdar Tufekci, ENGIE - Ohio State Energy Partners; Scott Potter, The Ohio State University	Benefits of an Energy Command Center – Zachary Bloom, Competitive Energy Services; Steve Grden, UMass Amherst	Panel Discussion: Control of CHW Thermal Energy Storage (TES) Tanks - Including Multiple Tanks – Moderator: Daniel Pyewell, CB&I; Panelists: John Andrepont, The Cool Solutions Company; Bryan Bagley, Affiliated Engineers; Mike Burns, Ever-Green Energy; Juan Ontiveros, UT Austin
9:30 am – 10:00 am	Outsourcing Campus Utilities: Starting Small and Contracting Well – Trent Berry, Reshape Infrastructure Strategies	Microgrids-as-a-Service: A New Approach to Solve Resiliency, Efficiency, Sustainability Challenges – Christian Dunlap, Schneider Electric	
10:00 am – 10:30 am	Refreshment Break with Business Partner Exhibitors – Key Ballroom 1-6 Sponsored by Chem-Aqua & I.C. Thomasson Associates Poster Exhibits – Key Ballroom South Foyer Presenters will be available by their posters to answer questions. Poster presentations and presenters are listed at the end of the program and also included in the conference mobile app.		
	5A – Planning & Project Development Holiday 1-3 Moderator: John Turner, BOND	5B – District Energy/CHP/Microgrids Holiday 4-5 Moderator: Roger Copeland, Jacobs Engineering Group	5C – Controls & Optimization Holiday 6 Moderator: Nathan Ninemire, POWER Engineers
10:30 am – 11:00 am	University of Vermont Central Utility Plant: A Half-Century of Growth, Innovation, and Efficiency – Sal Chiarelli & Michael Pelletier, University of Vermont; Bill Mahoney, RMF Engineering	Distributed Generation, Cogeneration and Storage - Key Factors in Energy Plans for Data Centers, Campuses and Municipalities – Dalia El Tawy, Siemens Energy	Implementing a Cloud-Based Utility Billing System at the University of Texas at Austin – Francisco Aleman, Delaware Software; Juan Ontiveros, University of Texas at Austin
11:00 am – 11:30 am	Feasibility Study for a Waste to Energy Steam Plant at University of Idaho – Marc Compton, University of Idaho	CHP Microgrids – The Realities: Overcoming the Hurdles Along the Way to a Community Microgrid – John Moynihan, Cogen Power Technologies	Driving Key Performance Indicators with Metering and Controls Data – Albert Gilewicz, Purdue University
11:30 am – 12:00 pm	UMass Memorial Medical Center CCHP Project – Aaron Bolhous, CHA Consulting	Upgrading Existing CHP to Hybrid – Nandini Mouli, eSai LLC	Zero Capital Chiller Plant and Parasitic Load Optimization – David Burrill, WorleyParsons
12:00 pm – 1:30 pm	Campus Energy Delegates Luncheon – Key Ballroom 7-12 Sponsored by Thermo Systems & Trane		
1:30 pm – 2:15 pm	Dessert & Coffee with Business Partner Exhibitors – Key Ballroom 1-6 Sponsored by Wiley Wilson Poster Exhibits – Key Ballroom South Foyer Presenters will be available by their posters to answer questions. Poster presentations and presenters are listed at the end of the program, they are also included in the conference mobile app.		

2:30 pm – 6:00 pm	Exhibit Hall and Poster Exhibit Tear Down – Key Ballroom 1-6		
	6A – Regulations, Policy and Business Best Practices <i>Holiday 1-3</i> Moderator: Chase Davis, RMF Engineering	6B – Energy & Water Efficiency <i>Holiday 4-5</i> Moderator: Dan Dixon, District Energy Corporation	6C – Central Plant Optimization <i>Holiday 6</i> Moderator: Serge Zinger, Thermo Systems
2:15 pm – 2:45 pm	The Microgrid Policy Agenda – Baird Brown, eco(n)law	University of Idaho Cooling Tower Case Study – Tyler Young, University of Idaho	Baltimore Convention Center – 10,000 Tons of Cooling in 2,000 Ton Plant – Jim Harris, Burns & McDonnell; Pam Clark, Veolia North America
2:45 pm – 3:15 pm	The Interface Between Project Design, Regulatory Compliance and Public Outreach at MIT – A.J. Jablonowski, Epsilon Associates, Inc.	Using Reclaim Water Source Meets Key Sustainability Goal for the University of Central Florida (UCF) – Michael Groh, U.S. Water; Curtis Wade, University of Central Florida	Life Cycle Of Chiller Plant – Cool Climate – Greg Kronaizl & Ryan Richard, Farris Engineering
3:15 pm – 3:45 pm	Understanding the Complexities to Successfully Convert a Stoker-Fed Coal-Fired Boiler to Natural Gas – Chad Culver, Stanley Consultants	University of Pittsburgh: Growing a Campus and Community While Reducing Energy, Water and Emissions – Stephen Svoboda, University of Pittsburgh; Willa Kuh, Affiliated Engineers	Accomplishments in Energy Reduction Efforts at the Architect Of the Capitol - Brian Klein, Architect of the Capitol
3:45 pm – 4:00 pm	Refreshment Break - Sponsored by Ramboll		
	7A – System Modernization <i>Holiday 1-3</i> Moderator: Paul Holt, University of British Columbia	7B – Training & Talent Management <i>Holiday 4-5</i> Moderator: Hemant Mehta, WM Group	7C – Operations & Efficiency <i>Holiday 6</i> Moderator: Barry Beck, I.C.Thomasson Associates
4:00 pm – 4:30 pm	Optimizing Design for Conversion from Steam to Hot Water – Mark Spurr, FVB Energy Inc.	Flipping Chilled Water Optimization, Train First (Princeton and MIT Case Studies) – John Rundell, Smith Engineering; Eric Wachtman, Princeton University	What We've Learned About Biofilms – Angela Delegard & Patrick Guccione, Chem-Aqua; Matt Winslett, University of Alabama Birmingham
4:30 pm – 5:00 pm	Americanizing European Hot Water Technology – Installation Costs US vs. EN Experience – Abbe Bjorklund & Kyle Stramara, Dartmouth College; Jens Hansen, Ramboll; Scott DeHollander & Richard Stein, University of Rochester; Scott Stordy, MIT; Linfen Zhang, University of Bridgeport	Career Track Programs for Training, Staff Retention and Succession Planning – Albert Gilewicz, Purdue University	Low Cost, High Impact Energy Reduction in Existing Campus Buildings – Matt Stevens, University of Texas at Austin
5:00 pm – 5:30 pm		Telling Your Story, Growing New Leaders Can Add Value to Your Campus – Mike Brewer & Mike Larson, University of Illinois; Monica Westerlund, Westerlund Communications	CMCE Lightning Suppressor – David Organek, EMP Defense; Jay Kothari, EMP Solutions
5:30 pm – 6:15 pm	Campus Forum Meeting – Holiday 6 A forum for discussion among college and university campus energy personnel (exclusively for end-users, dni business partners)	Business Partner Forum Meeting – Tubman AB A forum for manufacturers/suppliers and service providers and those not directly affiliated with a campus energy system	
Friday, March 9			
7:30 am – 9:00 am	Breakfast and Technical Tour Presentations – Holiday 6		
9:00 am – 1:00 pm	Technical Tours – Advanced registration required. Tour locations include Johns Hopkins Utilities LLC South Plant; University of Maryland Medical Center Plant; Veolia Baltimore Convention Center Cooling Plant.		

Poster Exhibits

Poster #1	Enhancing Microgrid Performance and Economics with Energy Storage – John Andrepont, The Cool Solutions Company
Poster #2	The True Cost of Glycol – David Broman, Cooney Technologies
Poster #3	Low Emission & Multifuel Biomass Furnace – Jens Dall, Dall Energy
Poster #4	Modern Absorption Titanium Tubes the "New Normal" in District Energy Systems – Doug Davis, BroadUSA
Poster #6	Closed Loop Steam Systems Are More Efficient Than Most People Think – Patrick Lach, Maxi-Therm Inc.
Poster #7	Chiller Plant Energy Efficiency Improvement Through Ozone Treatment for Removal of Biofilm – Lex LaMotte, LaMotte Water Management
Poster #8	Innovations In Duct Sealing: Universities Discover New Opportunity For Significant Energy Savings – April Lemmert, AeroSeal
Poster #9	Meter Selection Strategies and Best Practices – Tom Michalowski, GE
Poster #10	Improving Performance and Reliability While Reducing Costs Through Better Flow Measurement – Dave Taplin, Emerson Automation Solutions
Poster #11	How To Use District Energy Systems as a Virtual Battery in Microgrid Systems – Jens Hansen, Ramboll
Poster #12	Enhancing Energy Efficiency in Breweries – Anshuman Pandey, OPRA Turbines
Poster #13	Turboden ORC for District Heating Solutions – Ilaria Peretti, Turboden
Poster #15	Geothermal Heat on the Scale – Jesper Peter Menne Baunsgaard, Geoop Aps
Poster #16	Utilization of Biodiesel and Heavy Esters in CHP Facilities – Matt Herman, Renewable Energy Group
Poster #17	PE-Xa Pipe Material for Temperatures of 200 F and Diameters up to 26" – Aviv Scheinmann, Golan Plastic
Poster #18	Operating Centralized Campus Plants Leading Towards a More Sustainable Future – Jon Sorenson, Ameresco
Poster #19	Storage and Handling of Liquid Biofuels – Dan Wallace, Preferred Utilities Manufacturing Corporation
Poster #20	Predictive Optimization in Chilled Water Plants – Joe Witchger, HGA Architects and Engineers
Poster #21	New Jersey TRANSITGRID – Roger Copeland, Jacobs Engineering Group
Poster #22	Synthetic Gas – Thermolyzer – David Ferro, Pennoni
Poster #23	Safer, Faster, and Cost-efficient NDE Services – Samantha Link, Gecko Robotics