

LEADING THE WAY CampusEnergy2022



Feb. 15-18 | Westin Boston Seaport District Hotel | Boston, Mass.

CONFERENCE PROGRAM

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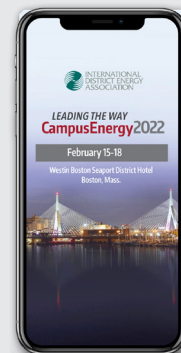
Please see below for details or ask for assistance at the registration desk.



IDEA is providing WiFi for attendees.

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CampusEnergy2022 Mobile App

The conference mobile app includes all of the important items for you to reference during the conference including program, exhibit information, attendees and the Game Center where you can get points to be entered into a raffle to win prizes during the dessert break on Thursday (must be present to win).

- Download the **Cvent Events** app in the App Store or Google Play Store. Search for **CampusEnergy2022**.
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MONDAY, February 14

10:00 am – 6:00 pm **Registration Open** – *Grand Ballroom Foyer*

12:15 pm – 12:45 pm **Workshop Speaker and Moderator Orientation Meeting** – *Marina IV*

1:00 pm – 5:00 pm **Thermal Distribution Workshop** – Separate advanced registration required – *Harbor I-III*

5:00 pm – 6:00 pm **Welcome Reception** – For Workshop participants and IDEA Board of Directors – *Marina Ballroom I-IV*

TUESDAY, February 15

7:00 am – 6:30 pm **Registration Open** – *Grand Ballroom Foyer*

7:00 am – 8:00 am **Workshop Breakfast** – *Marina I-III*

7:20 am – 7:50 am **Workshop Speaker and Moderator Orientation Meeting** – *Marina IV*
Breakfast will be served for speakers and moderators. Must attend if you are speaking or moderating on this day.

8:00 am – 4:00 pm **Thermal Distribution Workshop** – Separate advanced registration required – *Harbor I-III*

8:00 am – 4:00 pm **Microgrid Workshop** – Separate advanced registration required – *Commonwealth ABC*

12:00 pm – 4:00 pm **Exhibitor Table Set Up** – *Galleria Hall*

12:00 pm – 1:00 pm **Workshop Luncheon** – For Distribution and Microgrid Workshop attendees only – *Marina I-III*

4:00 pm – 5:00 pm **Campus Forum Meeting** – *Grand Ballroom C* – A forum for open dialogue among college/university campus energy personnel only. (Limited to campus system owners only.)

4:00 pm – 5:00 pm **Young Professionals Meeting** – *Hale*

5:00 pm – 6:30 pm **Opening Reception with Business Partner Exhibitors** – *Galleria Hall* – *Sponsored by Siemens Energy & Solar Turbines*

WEDNESDAY, February 16

7:00 am – 7:00 pm	Registration Open – <i>Grand Ballroom Foyer</i>				
7:00 am – 7:50 am	Continental Breakfast with Business Partner Exhibitors – <i>Galleria Hall</i> – Sponsored by I.C. Thomasson				
7:00 am – 7:50 am	District Energy Women’s Initiative (DEWI) Breakfast – <i>Hale</i>				
7:15 am – 7:45 am	Speaker and Moderator Orientation Meeting – <i>Burroughs</i> – Breakfast will be served for speakers and moderators. Must attend if you are speaking or moderating on this day.				
8:00 am – 8:20 am	Conference Opening – <i>Grand Ballroom A-B</i> Introductions – <i>Rob Thornton, IDEA President & CEO</i> Welcome to IDEA – <i>Chris Potter, IDEA Chair</i> Welcome to Boston – <i>Janine Helwig, MIT and Bob Manning, Harvard University, Conference Hosts</i>				
8:20 am – 9:30 am	Opening Plenary Panel Discussion: <i>District Energy: Leading the Way</i> – <i>Grand Ballroom AB</i> This discussion will focus on the ongoing evolution of campus energy utility systems in providing reliable, efficient and resilient thermal and power services to mission-critical customers and communities. As we move toward 2030, how will technologies adapt to reach carbon goals? How to best balance the concurrent missions of reliability, economy and environment? Hear how these world-class institutions are forging the future. Panelists: <ul style="list-style-type: none">• <i>Janine Helwig, Director of Utilities, Massachusetts Institute of Technology</i>• <i>Bob Manning, Senior Director, Engineering and Utilities, Harvard University</i>• <i>Jennifer Meisenholder, Director of Utilities - Thermal Systems, University of Florida</i>• <i>Tom Nyquist, Executive Director of Engineering & Campus Energy, Princeton University</i>• <i>Christopher Potter, Director of Utilities and Power Plant Operations, Architect of the Capitol</i>• <i>Paul Zmick, Director of Energy & Utilities, University of Virginia</i> Moderated by <i>Rob Thornton, President & CEO, IDEA</i>				
9:30 am – 10:15 am	Refreshment Break with Business Partner Exhibitors – <i>Galleria Hall</i> – Sponsored by Affiliated Engineers & Archaea Energy				
1A: The Road to Net Zero <i>Moderator:</i> <i>Lalit Agarwal, EnergyCAP LLC</i>	1B: Geothermal <i>Moderator:</i> <i>Michael Boswell, Concord Engineering</i>	1C: Business Models & Financing Strategies <i>Moderator:</i> <i>Robert Bouwens, Siemens Energy</i>	1D: Master Planning <i>Moderator:</i> <i>John Joyce, CHA Consulting</i>	1E: Future Fuels <i>Moderator:</i> <i>Carol Denning, Center for Sustainable Energy</i>	
Grand Ballroom C-E	Commonwealth ABC	Harbor Ballroom I	Harbor Ballroom II & III	Marina Ballroom I-IV	
10:15 am – 10:45 am					
The Brutalist Truth: How UMass Dartmouth Developed Their Plan for Decarbonization – <i>Timothy Erwin, Ramboll; Jamie Jacquart, UMass Dartmouth</i>	Geothermal District Heating & Cooling Technical Assistance for Communities* – <i>Arlene Anderson, US Department of Energy</i>	Central Utility Plant Replacement Project P3 at Fresno State University – <i>Jeff Schaller, NORESCO; Stephen Hill, Key Banc Capital Markets; Emre Erkovan, Meridian; R. Douglas Stingelin, GLHN Architects</i>	Oakland University – District Energy Infrastructure Master Planning – <i>Sumit Ray, Veregy; Thomas Lund-Hansen, Reliability Efficiency & Optimization LLC.</i>	Decarbonizing Campuses with RNG – <i>Becky Atkinson and Marc Fetten, GreenGas USA LLC</i>	
10:45 am – 11:15 am					
Pathway to Carbon Mitigation: UMass Amherst Campus Roadmap – <i>Ted Mendoza and Ezra Small, University of Massachusetts Amherst; Zac Bloom, Competitive Energy Services</i>	Use of a Centralized Geothermal Field to Support a Live/Work/Play Campus – <i>Anthony Thompson, and Andrew Kozak, BR+A</i>	Alternative Business Model Bringing Renewable District Energy to Burlington, VT – <i>Michael Ahern, Ever-Green Energy</i>	Clean District Thermal Energy System Master Planning – A Case Study on System Considerations – <i>Saarthak Narsipur and Mitch DeWein, CHA Consulting, Inc; Dylan Turek, City of Troy</i>	Decarbonizing District Energy: What Role Does H2 Play and When? – <i>Steve Jenks, Jacobs</i>	
11:15 am – 11:45 am					
Deconstructing Decarbonization – <i>Jean-Philippe Drouin, Ecosystem Energy Services; Ruth Bennett, Tufts University</i>	Developing an Aquifer Thermal Energy Storage Project in the Twin Cities – <i>Mark Worthington, Underground Energy, LLC; Sean McFarling, Ever-Green Energy</i>	Long-Term Concession: A New Model for Comprehensive Energy Management – <i>Francois Gressier, ENGIE</i>	Agile Planning to Meet Efficiency and Resiliency Goals – <i>Ben Dombrowski and Max Littlefield, Jacobs</i>	Hydrogen, AI, And Other Sustainable Solutions to De-Carbonize District Energy – <i>Joseph Matteo, NextEra Energy Resources</i>	
11:45 am – 12:15 pm					
Swarthmore College: Roadmap to Decarbonization – <i>Philip Gonski, Burns Engineering; James Adams, Swarthmore College</i>	District Energy Corporation Lincoln Electric System Operations Center Thermal Energy Plant – <i>Dan Dixon, District Energy Corporation; Jon Nunes. Olsson</i>	Allowing CIO ₂ to Live Up to its Promise – <i>Douwe Mason, S.O.T; Pat Guccione, Chem Aqua</i>	Wesleyan University's Logical Progression Toward Carbon Neutrality– <i>David Madigan, Van Zelm Heywood & Shadford; Andrew Plotkin, Wesleyan University</i>	H2-Orange: Clemson Hydrogen Combined Heat and Power Storage System – <i>Thomas Koeppel, Siemens Energy, Inc</i>	

* Denotes virtual presentation

WEDNESDAY, February 16 – cont'd

12:15 pm – 1:45 pm **Campus Energy Networking & Recognition Luncheon – *Grand Ballroom AB & C-E* – Sponsored by Jacobs, Thermo Systems & Trane**

1:45 pm – 2:30 pm **Dessert & Coffee with Business Partner Exhibitors – *Galleria Hall* – Sponsored by CHA Consulting, Inc. & Siemens Industry, Inc.**

2A: District Energy on Massachusetts Campuses: Harvard University <i>Moderator: John Williamson, RMF Engineering</i> Grand Ballroom C-E	2B: Planning for the Future <i>Moderator: Nate Cesarz, Affiliated Engineers, Inc.</i> Commonwealth ABC	2C: Controls, Monitoring, Metering, and Data Management <i>Moderator: Serge Zinger, Thermo Systems</i> Harbor Ballroom I	2D: Campus System Electrification <i>Moderator: Bob Smith, RMF Engineering</i> Harbor Ballroom II & III	2E: Future Fuels <i>Moderator: Jesse Cabrera, Stanley Consultants</i> Marina Ballroom I-IV
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2:30 pm – 3:00 pm

Harvard DEF State of the Art Microgrid: How Harvard University is Utilizing State-of-the-Art Energy Plant to Support Growing Campus – <i>Jared Markle, RMF Engineering, Inc.; Robert Manning, Harvard University</i>	Redundant and Resilient Control System Design for District Energy Facilities – <i>Grant Selking, Haig Monokian and Grant Kircher, Thermo Systems</i>	Phasing Controls for Critical Hospital Infrastructure – <i>Brian Wodka and Peter Georgiev, RMF Engineering, Inc.; Jason Wittkamp, Thermo Systems LLC</i>	The Calculus of Campus Electrification – <i>Janine Helwig and Carlo Fanone, Massachusetts Institute of Technology</i>	Hydrogen Firing Burner & Boiler Impact – <i>Bob Langstine and Bill Gurski, Zeeco, Inc.</i>
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3:00 pm – 3:30 pm

Blackstone Combustion Turbine Inlet Cooling Retrofit – <i>Douglas Schmidt, Harvard University</i>		District Cooling Utility Cost Optimization at Children's of Alabama – <i>Derek Supple, Johnson Controls Inc.</i>	Steaming Toward Electrification – <i>David Smith, Burns Engineering, Inc.</i>	Progress in Using Liquid Biofuels In Solar® Turbines Incorporated DLE Industrial Gas Turbines – <i>Priyank Saxena, Solar Turbines Incorporated</i>
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3:30 pm – 4:15 pm **Refreshment Break with Business Partner Exhibitors – *Galleria Hall* – Sponsored by Boldt & Greenland Enterprises, Inc.**

3A: District Energy on Massachusetts Campuses: MIT <i>Moderator: Patti Wilson, Affiliated Engineers, Inc.</i> Grand Ballroom C-E	3B: Steam to Hot Water Conversion <i>Moderator: Shannon McAuliffe, utiliVisor</i> Commonwealth ABC	3C: District Energy for Reliability and Resiliency <i>Moderator: Ben Dombrowski, Jacobs</i> Harbor Ballroom I	3D: Campus System Electrification <i>Moderator: Caroline Fitzgerald, RMF Engineering</i> Harbor Ballroom II & III	3E: Combined Heat and Power <i>Moderator: Joe Witchger, HGA</i> Marina Ballroom I-IV
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4:15 pm – 4:45 pm

Central Utility Plant Upgrades - Bridge to the Future – <i>Jesse Conklin, Bond Building Construction Inc.; Frances Boyle, Massachusetts Institute of Technology; Michael Thornton, Vanderweil Power Group</i>	Implementation of A Campus-Wide Conversion from Steam to LTHW – <i>Tim Peer, Bond Brothers; Dano Weisbord, Smith College; Mike Walters, Salas O'Brien</i>	District Energy from the Start – <i>Brandon Curry and Josh Greenfield, HDR</i>	Impacts of the Electrification of Transportation on Campus Environments – <i>John Vernacchia and Justin Carron, Eaton</i>	Case Study: Converting the UNH CHP System to Renewable Fuel – <i>Ivaylo Nedyalkov, New England CHP TAP / University of New Hampshire</i>
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4:45 pm – 5:15 pm

MIT Smart P&ID Upgrades: How MIT Revamped Their P&IDs with Plan for the Future – <i>Brian Wodka and Peter Georgiev, RMF Engineering, Inc.</i>	The Steam Stops Here – <i>John Williamson and Eric Chrencik, RMF Engineering, Inc.; Frank Perry, Cornell University</i>	Energy Management System for District Energy Systems: CHP, Storage and Renewables – <i>Benedict Vergara, Rachel Gray, The George Washington University</i>		Italian Cogeneration Plant and its Role in Energy Transition in Europe – <i>Rob Bouwens, Siemens Energy</i>
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5:15 pm – 5:45 pm

CHP Operation: Where Resiliency, Carbon, and Cost Intersect – <i>Siobhan Carr and Jon Sepich, Massachusetts Institute of Technology; Michael Webster, Ictec Energy Services</i>	CalTech Decarbonization through Steam to Hot Water Conversion – <i>Alex Warring, Affiliated Engineers; Maximilian Christman, California Institute of Technology</i>	Case Studies in Creating "A New Normal" Level of Improved Hydronic System Performance Via Effective Air and Dirt Elimination* – <i>Stephen Clinton, Spirotherm, Inc.</i>	Challenges of Electrification on Historic Campuses – <i>Mitch DeWein, CHA Consulting, Inc.</i>	CANDELA: District Heating and Austral Electricity* – <i>José Mardones, Universidad Austral de Chile; Juan Pablo Berríos Peña, Agencia de Sostenibilidad Energética</i>
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5:45 pm – 7:00 pm **Cocktail Reception with Business Partner Exhibitors – *Galleria Hall* Sponsored by Clearway Community Energy & Ramboll**

Young Professionals Group (YPG) Meet Up – *Galleria Hall*

7:00 pm – 9:00 pm **Networking Event – *Laugh Boston* Sponsored by CenTrio, Eaton, ENGIE N.A. & Johnson Controls**

THURSDAY, February 17

7:00 am – 5:30 pm **Registration Open – *Grand Ballroom Foyer***

7:00 am – 7:50 am **Continental Breakfast with Business Partner Exhibitors – *Galleria Hall* – Sponsored by Wiley Wilson**

7:15 am – 7:45 am **Speaker Orientation Meeting – *Burroughs***

Breakfast will be served for speakers and moderators. Must attend if you are speaking or moderating on this day.

4A: The Roadmap to Decarbonization <i>Moderator: Jeffrey Easton, Burns & McDonnell</i>	4B: Maximizing Energy Efficiency <i>Moderator: Mitch DeWein, CHA Consulting</i>	4C: System Design Considerations <i>Moderator: Jesse Conklin, Bond Brothers, Inc.</i>	4D: Modernizing Systems in Campuses, Cities & Communities <i>Moderator: Siobhan Carr, Massachusetts Institute of Technology</i>	4E: Water Conservation, Reuse & Optimization <i>Moderator: Pat Guccione, Chem-Aqua, Inc.</i>
Grand Ballroom C-E	Commonwealth ABC	Harbor Ballroom I	Harbor Ballroom II & III	Marina Ballroom I-IV
8:00 am – 8:30 am				
Campus Energy System Decarbonization Panel Discussion – <i>Moderated by Nate Cesarz, Affiliated Engineers Inc.</i> <i>Panelists: Paul Zmick, University of Virginia; Jennifer Meisenhelder, University of Florida; Maximilian Christman, California Institute of Technology; Alex Kohnen, Arizona State University; Dave Larson, Brown University</i>	Improving Delta T by Using KPI: Auburn University – <i>Thomas Parker, Burns & McDonnell; Rob Engle, Auburn University</i>	Data Center Cooling as A Primary Heat Source in Campus Hydronic District Heating Systems – <i>Drew Turner, Danfoss</i>	Carnegie Mellon University – Modernizing Thermal Systems – <i>Christopher Richardson, Wiley Wilson; Steven Guenther, Carnegie Mellon University</i>	Evaluating Viability for Reclamation and Reuse – <i>Bob Salvatelli, Sustainable Water</i>
8:30 am – 9:00 am				
	Maximizing Energy Efficiency Through Condensing Economizers* – <i>Joseph Richter, Combustion & Energy Systems</i>	Computation-aided District Energy System Plant Site Selection and Network Planning* – <i>Zheng Yang, ENGIE</i>	Blending Old and New at The College of William & Mary – <i>Bob Smith, RMF Engineering; Stephen Pollard, RMF Engineering, Inc.</i>	A Novel Non-Phosphorus Cooling Water Treatment Technology to Address Operational and Environmental Challenges – <i>Ashok Shetty, Suez Water Technologies & Solutions</i>
9:00 am – 9:30 am				
Decarbonization Roadmaps for Campus and District Energy Systems – <i>Gary Leatherman, Baker Tilly</i>	Energy Efficiency, Renewable Thermal and CHP – How the Changing Landscape of Environmental Attributes Provides Revenue to College Campuses – <i>Thomas Jacobsen, Blue Delta Energy, LLC</i>	Get the Most Boiler for Your Buck: How to Buy Central Plant Equipment – <i>Jeff Elsner, The RMH Group, Inc.</i>	Resiliency Measures to Consider When Upgrading a Campus Electrical Distribution System – <i>Alec Parhar, CHA</i>	Abbott Power Plant New Clarifier – <i>Jacob Price PRVN Consultants, Inc.; Rob Roman, University of Illinois at Urbana-Champaign</i>
9:30 am – 10:00 am				
Developing the Roadmap to a Decarbonized and Resilient CU Boulder – <i>Calum Thompson, AECOM; Brian Lindoerfer, University of Colorado Boulder</i>	Carbon Reduction Through Efficient Use of Resources For A Gas Turbine Driven Generator Set – <i>Jean-Luc Di Liberti, Solar Turbines</i>	Engineering Economics for District Energy Systems: Using Valuation Techniques to Design Successful Projects – <i>Nicholas Lewandowski and Lucas Janes, The Fulcrum Group</i>	Capturing Existing Asset Value: Reuse and Repurpose – <i>Frederick Marchand, Ecosystem Energy Services; Dave Larson, Brown University</i>	Application of District Energy Principles for Enabling Energy and Exergy Efficiency* – <i>Robert Bean, Indoor Climate Consultants Inc.; Aaron Stotko, Uponor</i>
10:00 am – 10:45 am Refreshment Break with Business Partner Exhibitors – <i>Galleria Hall</i> <i>Sponsored by NextEra Energy Resources & Vanderweil</i>				

SAVE THE DATES



IDEA2022
Building Connections

June 6-9 | Sheraton Centre Toronto Hotel | Toronto, ON

36th Annual Campus Energy Conference, Workshops & Trade Show

CampusEnergy2023

February 27 – March 2, 2023

Gaylord Texan Resort & Convention Center, Grapevine, Texas

THURSDAY, February 17 – cont'd

5A: Master Planning for Decarbonization Moderator: Nathan Ninemire, Burns & McDonnell	5B: Innovative Chiller Solutions Moderator: Guy Frankenfield, DN Tanks	5C: District Energy System Optimization Moderator: Bryan Kleist, Clearway Community Energy	5D: Tools for System Modernization Moderator: Laura Duncan, Gilsulate International, Inc.	5E: District Cooling System Overhaul for Efficiency and Flexibility Moderator: Justin LaJeunesse, BOND Civil and Utility Construction, Inc.
Grand Ballroom C-E	Commonwealth ABC	Harbor Ballroom I	Harbor Ballroom II & III	Marina Ballroom I-IV
10:45 am – 11:15 am				
Arizona State University – How ASU's Utility Masterplan Yielded a Roadmap to Decarbonization – Jeff Duncan, R.G. Vanderweil Engineers, LLP; Alex Kohnen, Arizona State University	University of Nebraska–Lincoln Case Study: Tube Fouling Prevention Optimizes Chiller Performance – Michael Crocker, Innovas Technologies; Aaron Evans, University of Nebraska-Lincoln	New Ways of Approaching Optimization at Vicinity Energy's Baltimore District Cooling Campus – Pat Gillooly, Vicinity Energy; Ben Erpelding, Optimum Energy	Data and Validated Results Lead to Optimized Utility Operations – Christopher Angerame, utiliVisor	Dry Layup of Cooling Towers During Winter – James Gleason and Matthew Clardy, Suez Water Technologies & Solutions
11:15 am – 11:45 am				
Amherst College Decarbonization Master Plan – Aaron Hayden, Amherst College; Lindsey Olsen, Salas O'Brien	Absorption Chiller in District Cooling Plants – Amit Vatsa, BROAD USA INC	How Delta College Supported Their Sustainability Initiative with a Holistic Chiller Plant Strategy – John Schmidt, Trane	Leveraging Performance of District Energy Networks with Modern Motors, Drives and Digital Service Solutions* – Maria Fedorovicheva, ABB	Coordinating Operations of a 4-Plant District Energy System – Joe Witchger and Brendan Huss, HGA; Mike Hanson, University of Wisconsin-Madison
11:45 am – 12:15 pm				
Net-Zero CHP – The Key Building Block to District Energy Decarbonization – Kurt West, 2G Energy Inc.	Seizing the Opportunity – Leveraging Chiller Replacements to Drive Towards Carbon Neutrality – Jeffrey Easton, Burns & McDonnell; Thomas Bakane, Amgen	Making UND's Vision for Clean, High-Efficiency Energy a Reality – Mike Pieper, University of North Dakota; Jaime Paris Boisvert, Johnson Controls Inc	System Monitoring Modernization Strategies – Keith Anderson, RoviSys	Cornell's Lake Source Cooling: 21 Years of Cost, Energy and Greenhouse Gas Reductions – Robert Bland, Cornell University; Deirdre Lord, The Megawatt Hour
12:15 pm – 1:45 pm Campus Energy Keynote Luncheon – Mr. Robert Mumgaard, Chief Executive Officer, Commonwealth Fusion Systems Grand Ballroom AB & C-E – Lunch Sponsored by BOND, Burns & McDonnell & Chem-Aqua Keynote Sponsored by CenTrio, Eaton, ENGIE N.A. & Johnson Controls				
1:45 pm – 2:30 pm Dessert & Coffee with Business Partner Exhibitors – Galleria Hall – Sponsored by RMF Engineering, Inc.				
2:30 pm – 5:30 pm Exhibit Hall Tear Down – Galleria Hall				
6A: Decarbonization Implementation Moderator: Bob Salvatelli, Sustainable Water	6B: System Expansion Moderator: Jennifer Meisenhelder, University of Florida	6C: District Energy System Optimization Moderator: Joan Kowal, NextEra Energy Resources	6D: Sustainable Solutions Moderator: Kimberly Garcia, Cleaver-Brooks	6E: Thermal Energy Storage Moderator: Elizabeth Nolder, RMF Engineering, Inc.
Grand Ballroom C-E	Commonwealth ABC	Harbor Ballroom I	Harbor Ballroom II & III	Marina Ballroom I-IV
2:30 pm – 3:00 pm				
Considerations for HRSGs in H2-Fueled Power Plants – Richard Saab, Siemens Energy	Recovered Heat as a Primary Resource at UBC Okanagan – Eric Moe, dJoule, LLC; Colin Richardson and Glen McIntyre, University of British Columbia Okanagan	Major Utility Upgrades at the University of Connecticut – John Turner, Bond Building District Energy; Craig Parker, BVH Integrated	POWER-TO-X: Hype or The Next Evolution in Sustainable Energy Systems – Rob Neimeier and Neil Breen, Ramboll	Optimizing the University of Virginia Health System Loop – Brock Frisbie, Optimum Energy; Paul Stevens, University of Virginia
3:00 pm – 3:30 pm				
Development of an All-Electric Central Utility Plant – George Howe, Vincent Di Marco and Robby Oylear, Affiliated Engineers, Inc.	University of Iowa CapEx Program Phase TG7 and TG 8 – P. Russell Price and Matt Mercer, PRVN Consultants, Inc.	Case Study – SCR Performance Anomaly at UMMS CHP – Robert Fraser and Joseph Collins, UMASS Medical School	3 Keys to Optimize Hydronic System – Soham Neupane, IMI Hydronic Engineering Inc.	Thermal Energy Storage (TES) for Resiliency and Capital Offset at the University of Oregon – Justin Grissom, Burns & McDonnell
3:30 pm – 4:00 pm sessions – continued on back panel				

* Denotes virtual presentation

THURSDAY, February 17 – cont'd

6A: Decarbonization Implementation Moderator: Bob Salvatelli, Sustainable Water	6B: System Expansion Moderator: Jennifer Meisenhelder, University of Florida	6C: District Energy System Optimization Moderator: Jeffrey Easton, Burns & McDonnell	6D: Sustainable Solutions Moderator: Kimberly Garcia, Cleaver-Brooks	6E: Thermal Energy Storage Moderator: Elizabeth Nolder, RMF Engineering, Inc.
Grand Ballroom C-E	Commonwealth ABC	Harbor Ballroom I	Harbor Ballroom II & III	Marina Ballroom I-IV
3:30 pm – 4:00 pm				
Decarbonizing Oberlin College: Discoveries from Phase 1 of Program Implementation – Michael Ahern Ever-Green Energy; Meghan Riesterer and Kevin Brown, Oberlin College and Conservatory	One Shutdown Allowed – Kailash Viswanathan, Arch Energy/ Consigli Construction Co., Inc.; Dan Diorio, Boston College	Efficient High Temperature Heat Pumps for District Heating – Kenneth Hoffmann, GEA Refrigeration Technologies	Laval University: An Example of District Wide Energy Recovery For 15 Years – Genvieve Lussier, Equinox; Marise Vallieres, Université Laval	An Owner's Long-Term Experience with Multiple TES Installations – Dennis Bass, CB&I Storage Solutions; Roberto Del Real, University of Texas at Austin
4:00 pm – 4:15 pm	Refreshment Break – Grand Ballroom Foyer			
4:15 pm – 5:00 pm	Closing Panel Discussion: Where Do We Go From Here? – Grand Ballroom AB Panelists: <ul style="list-style-type: none"> • Maribel Adydan, Director of Business Development, Engie North America • Nate Cesarz, Principal, Affiliated Engineers, Inc. • Malcolm Harkness, Director of Development, Clearway Community Energy • Joan Kowal, Director of Development, NextEra Energy Resources • Steve Swinson, CEO, CenTrio Moderated by Scott Szycher, Membership Manager, IDEA			
5:00 pm – 6:00 pm	Campus Forum Meeting – Commonwealth ABC A forum for open dialogue among college/university campus energy personnel only. (Limited to campus system owners only.)		Business Partner Forum Meeting – Stone A forum for manufacturers/suppliers, service providers, operators, developers and those not directly employed with a campus energy system.	

FRIDAY, February 18

7:30 am – 9:00 am	Breakfast and Technical Tour Presentations – Commonwealth ABC
9:00 am – 1:00 pm	Technical Tours – Advanced registration required. Tour A – Harvard: 9:00 am – 11:00 am. Airport drop-off approximately at 11:15 am Tour B – Harvard, MIT & MATEP (Longwood Medical Area Total Energy Plant): 9:00 am – 1:00 pm. Airport drop-off approximately at 1:30



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