

WEDNESDAY, March 1 – cont'd				
5A: Decarbonizing with District Energy <i>Moderator: Tricia Brown, CenTrio</i>	5B: Data & Monitoring <i>Moderator: Kevin Porter, Thermo Systems</i>	5C: Optimizing Resources <i>Moderator: Tim Peer, BOND</i>	5D: Nuclear <i>Moderator: Dan Dixon, EPRI</i>	5E: Microgrids for Resiliency <i>Moderator: Carol Denning, Center for Sustainable Energy</i>
Escondido	Mesilla	High Plains 2-3	High Plains 1	Texoma
11:45 am – 12:10 pm				
Decarbonization of an Industrial Campus – <i>Marc Sano & Shane Helm, Precis Engineering, Inc.</i>	The Success of Using Fault Detection in Existing Building Commissioning – <i>Grace Hsieh, University of Texas at Austin; Sebastian Eluvathingal, Energy Systems Laboratory - Texas A&M Engineering Experiment Station (TEES)</i>	Addressing Water Risks Through Resource Optimization and Goal Setting – <i>Janine Helwig, Massachusetts Institute of Technology; Charlie Barnett, Coho</i>	Agree to Disagree – Nuclear Public Acceptance – <i>Bryce Johnson, University of Nebraska</i>	Gallaudet University Microgrid Project – <i>Kristel Watson, Scale Microgrid Solutions; Alec Parhar & Chris Cseryei, CHA Consulting, Inc.; David Good, Gallaudet University</i>
12:15 pm – 1:45 pm Campus Energy Recognition and Networking Luncheon – <i>Tate C</i> – Sponsored by Thermo Systems & Trane				
1:45 pm – 2:30 pm Dessert & Coffee with Business Partner Exhibitors – <i>Tate A/B</i> – Sponsored by IC Thomasson & Stanley Consultants				
2:30 pm – 6:00 pm Poster Presentations* – <i>Tate Foyer</i>				
2:30 pm – 6:00 pm Exhibit Hall & Poster Tear Down – <i>Tate A/B</i>				
6A: Master Planning <i>Moderator: Michael Schorsch, Lansing Board of Water and Light</i>	6B: Energy/Water Nexus <i>Moderator: Pat Guccione, Chem-Aqua Inc</i>	6C: Harnessing the Power of the Sun <i>Moderator: Johnathan Coleman, Solar Turbines</i>	6D: Nuclear, Cont'd <i>Moderator: Kati Austgen, NEI</i>	6E: Microgrids for Resiliency, Cont'd <i>Moderator: Kevin Fox, Burns & McDonnell</i>
Escondido	Mesilla	High Plains 2-3	High Plains 1	Texoma
2:30 pm – 2:55 pm				
How Long Will It Take to Decarbonize My Campus? – <i>Mustafa Elbehery, FVB Energy Inst.</i>	Application of an Automated Condenser Monitoring System – <i>Kevin Boudreaux, ChemTreat</i>	Using Thermal Infrared Surveying To Commission And Maintain Solar Field Installations – <i>Greg Stockton, Stockton Infrared Thermographic Services, Inc.</i>	An Overview of Microreactor Technology for District Energy Applications – <i>Dan Moneghan, EPRI</i>	Advantages of Diverse Fuel Sources – <i>Jim Nonnenmann, PRVN Consultants; Robert Roman, University of Illinois at Urbana-Champaign</i>
3:00 pm – 3:25 pm				
Does CHP Have a Role in Utility Master Planning and Climate Action Plans? – <i>Stefan Krajewski, Cordia</i>	Utility Optimization, Minimization, Decarbonization – <i>Andrew Witteck & Rajkumar Gnanaraj, Armstrong International</i>	District Heating Using Concentrating Solar Collectors – A Case Study – <i>Ed Korevaar & Mohammed Murad, Phoenix Solar Thermal</i>	Roadmap for Development & Execution of Micro and Small Modular Reactor Projects for District Energy – <i>David Goetz, Burns & McDonnell; Tim Brown, CenTrio Energy</i>	Revolutionizing Campus Energy Plants with Waste Heat Recovery and Microgrids: The Future Is Proven – <i>Nate Turner, NLine Energy, Inc.; Marc Compton, MIEDI</i>
3:30 pm – 3:55 pm				
The “Decarb Refresh”: Renewing Brown University’s Path to Decarbonization – <i>Bob Mancini & Jean-Philippe Drouin, Ecosystem Energy Services; Jessica Berry, Brown University</i>	The WaterHub at UT Austin – <i>Bob Salvatelli, NextEra Distributed Water; Ryan Thompson, University of Texas at Austin</i>	UC Davis Harnesses the Power of the Sun to Offset Heating Load – <i>Joseph Yonkoski, University of California Davis; Quindi Guisepppe, Syska Hennessy</i>	Bridging the Divide: Guidance for Nuclear Manufacturers to Focus on District Energy Solutions – <i>Nathan Ninemire & Jacob Welsh, Burns & McDonnell; Jeremy Shook, EPRI</i>	Bolster Power Reliability for Your Campus – Hospital Integrates Fuel Cells into A Microgrid For Increased Flexibility – <i>Robert Kirsilis, Eaton; David Smith, Bloom Energy</i>
4:00 pm – 4:15 pm Refreshment Break – <i>Vineyard Foyer</i>				
7A: Master Planning <i>Moderator: Tim Gephardt, University of Missouri</i>	7B: Energy/Water Nexus <i>Moderator: Lalit Agarwal, EnergyCAP, LLC</i>	7C: Extending Energy Systems for Maximum Efficiency <i>Moderator: Robert Bouwens, Siemens Energy</i>	7D: District Energy & CHP Case Studies <i>Moderator: Paul Zmick, University of Virginia</i>	7E: Training <i>Moderator: Joan Kowal, NextEra Energy Resources</i>
Escondido	Mesilla	High Plains 2-3	High Plains 1	Texoma
4:15 pm – 4:40 pm				
Decarbonizing SUNY – Clean Energy Master Planning Covering 24 Campuses, 2,400 Buildings and 89 Million Square Feet – <i>Robert Neimeier, Ramboll</i>	Use of Reclaim Water for Cooling Water – <i>Kevin Emery, ChemTreat</i>	Maximizing Energy Efficiency Through Condensing Economizers – <i>Joseph Richter, Combustion & Energy Systems</i>	Three Steps to Reduce Operational Costs and Increase Energy Efficiency – <i>Thiago Bacic, Radix Engineering</i>	Driving Retention in a Dynamic Market – <i>Casey Reimann & Lindsey Kuhnén, Jacobs</i>

* Presenters available by their posters to answer questions during these times.

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Escondido	Mesilla	High Plains 2-3	High Plains 1	Texoma
4:45 pm – 5:10 pm				
Decarbonization Roadmap for Institutions – <i>Francois Gressier, ENGIE North America</i>	Novel Water Treatment Optimization Technologies Implemented in NIH Central Utility Plant – <i>Brian Clifford & Dr. Yanzheng (Don) Guan, National Institutes of Health</i>	Realizing The Heating Potential Of Chillers – <i>Joe Witchger & George Siedlecki, HGA</i>	Infrastructure Improvements Aim to Reduce Consumption and GHG on Hampton University Campus – <i>Christopher Benson & Jeff Swann, Bernhard</i>	Preparing Today's Workforce for Tomorrow's NetZero Energy Systems – <i>Ken Daycock & Kelsey Gamble, Technical Training Professionals</i>
5:15 pm – 6:15 pm		Business Partner Forum Meeting – <i>Davis 3</i> A forum for manufacturers/suppliers, service providers, operators, developers and those not directly employed with a campus energy system.		
Campus Forum Meeting – <i>Escondido</i> A forum for open dialogue among college/university campus energy personnel only. (Limited to campus system owners only.)				
THURSDAY, March 2				
7:30 am – 9:00 am	Breakfast and Technical Tour Presentations – <i>Mesilla</i>			
9:00 am – 11:30 am	Technical Tours – <i>Advanced registration was required.</i> Tour A – Parkland Health & Hospital System's Central Utility Plant, drop participants at Dallas Love Field and return to hotel. Tour B – DFW Airport Central Utility Plant, drop participants at DFW Airport Terminals and return to hotel. Tour C – Gaylord Texan Central Utility Plant, no airport transportation. Facility is within walking distance of hotel.			
POSTER PRESENTATIONS				
#1	Operational Intelligence Improves Utilities' Efficiency and Reduces Costs – <i>Thiago Bacic, Radix Engineering</i>			
#2	Reducing Equipment Failure with Automated Bearing Lubrication – <i>Blair Fraser, UE Systems; Ryan Trickett, & Raymond Shell, University of Washington</i>			
#3	Decarbonizing and Electrifying an Urban College – A Campus Energy Case Study – <i>Saarthak Narsipur, CHA Consulting, Inc; Marc Donovan, Union College</i>			
#4	Decarbonizing District Heating with a Heat Pump Boiler – <i>Jeremy Pitts, Echogen Power Systems</i>			
#5	Innovative Energy Partnership Reduces Greenhouse Gas Emissions and Bolsters Reliability of Campus Infrastructure – <i>Rob Guthrie & David Amoss, Bernhard</i>			
#6	Supercomputer-Powered District Heating to De-carbonize Lawrence Berkeley National Laboratory – <i>Joanna Pyun, Affiliated Engineers Inc.</i>			
#7	CHPs – Getting What You Paid For – <i>Brian Wodka, RMF Engineering, Inc.</i>			
#8	High Capacity Transcritical CO ₂ Heat Pump for Human Comfort in Large Buildings – <i>Jonathan Berney, Emerson Electric</i>			
#9	Cooling Tower Blowdown Treatment – <i>Dalit Noi, IDE Technologies</i>			
#10	Planning for Expansion by Phasing Construction – <i>Jim Harris, Burns & McDonnell</i>			
#11	Distributed CHP Powering Remote Facilities – <i>Kent McCord, Kinsley Energy Systems</i>			
#12	Preparation is the Key to Success – <i>David Goetz, Burns & McDonnell</i>			
#13	Cruising on District Energy – The Nation's Maritime Academies Get New Ships – <i>Kevin Kikola, RMF Engineering, Inc.</i>			
#14	The Recipe for an Ultra-High Efficiency Steam System – <i>Laurence Wilson, WSP USA; Patrick Lach, Maxi-Therm; Tony Ranallo, Boilersource</i>			
#15	Aligning Business Continuity with Operational Investments – The Infrastructure Resiliency Model – <i>Andrew Price, Affiliated Engineers Inc.</i>			
#16	Maximizing Energy and Carbon Savings – <i>Kelby Hohler, Smith Engineering</i>			
#17	Energy Master Planning - Putting Certainty into an Uncertain Future – <i>Mark Mikulin, EEA Consulting Engineers</i>			
#18	Campus Electrification: A Step by Step Guide for Meeting the Country's Strictest Climate Goals – <i>Daniel Audette, Wendel</i>			
#19	Strategic Energy and Climate Action Planning as Driver for Campus Transformation Journey – <i>Fred James, Siemens Smart Infrastructure</i>			
#20	The Ultimate Question: To Repair, Upgrade, or Replace the Older Gas Turbine Equipment at a University in Michigan – <i>Robert Bouwens, Siemens Energy</i>			
#21	On Site Legionella Testing – <i>James Gleason, Veolia Water Technologies & Solutions</i>			
#22	Making District Energy Sustainable Through Employing Sustainable Components in the System – <i>Casey Benhart, ABB</i>			
#23	Consumers Energy's First Mobile Battery – <i>Jack McCormick, Commonwealth Associates, Inc.</i>			
#24	Confined Space CHP Balance of Plant – <i>Dan Howland, Array Industries, Inc.</i>			
#25	Electrification and How It Can Assist Your University on It's Path to Decarbonization – <i>Raja Matharu, Chromalox Inc.</i>			
#26	Energy Efficient Absorption Chiller Technology for Campuses – <i>Abhijit Moholkar, Thermax Inc.</i>			
#27	University of Iowa Replacement of Steam Turbine Generators – <i>Jim Nonnenmann & Matt Mercer, PRVN Consultants, Inc.</i>			
#28	Introduction to Nuclear Regulation – <i>Kati Austgen, Nuclear Energy Institute</i>			
#29	Global Innovations in CHP-Based District Energy; Hydrogen, Carbon Capture, and Heat Pump Integration – <i>Alex Marshall, Clarke Energy, a Kohler Company</i>			

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De-Carbonizing the Campus: Planning, Tools & Technologies

CampusEnergy2023

February 27 – March 2, 2023

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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 **CampusEnergy2023**.
- Enter your name and the email that you registered with to receive a verification code to log in.
 - The app will send a **verification code** to your email. Enter that code, then tap “verify.”
 - If you did not receive the verification code email, please visit the IDEA registration desk. (*Vineyard Foyer*)

MONDAY, February 27

7:00 am – 7:00 pm	Registration Open – <i>Vineyard Foyer</i>	
7:00 am – 8:00 am	Workshop Breakfast – For registered Workshop participants – <i>Mesilla</i>	
7:20 am – 7:50 am	Workshop Speaker and Moderator Orientation Meeting/Breakfast – <i>San Saba 3</i> <i>Speakers and moderators for this day must attend.</i>	
8:00 am – 4:00 pm	Thermal Distribution Workshop – <i>Escondido</i>	
8:00 am – 4:00 pm	Decarbonization Workshop – <i>High Plains</i>	
12:00 pm – 4:00 pm	Exhibitor Table & Poster Set Up – <i>Tate A/B</i>	
12:00 pm – 1:00 pm	Workshop Luncheon – For Distribution and Decarbonization Workshop attendees only – <i>Mesilla</i>	
4:00 pm – 5:00 pm	Campus Forum Meeting – <i>Texoma</i> – A forum for open dialogue among college/university campus energy personnel only. (Limited to campus system owners only.)	Thermal Distribution Forum – <i>Escondido</i>
	Young Professionals Group (YPG) Meetup – <i>Davis 3</i>	
	Opening Reception with Business Partner Exhibitors – <i>Tate A/B</i> – Sponsored by Burns & McDonnell	
5:00 pm – 6:30 pm	District Energy Women’s Initiative (DEWI) Reception – <i>Tate A/B</i> Poster Presentations* – <i>Tate Foyer</i>	
6:30 pm – 9:30 pm	Welcome Dinner – <i>The Circle R Ranch</i> - Dinner and good, old-fashioned Texas-style hospitality. Buses depart from the Gaylord Tour Bus Lobby – Sponsored by Eaton, ENGIE, Johnson Controls & U.S. DOE	

TUESDAY, February 28				
7:00 am – 7:00 pm	Registration Open – <i>Vineyard Foyer</i>			
7:00 am – 7:50 am	Breakfast with Business Partner Exhibitors – <i>Tate A/B – Sponsored by Affiliated Engineers & Wiley Wilson</i>			
7:00 am – 7:30 am	Speaker and Moderator Orientation Meeting/Breakfast – <i>San Saba 3 – Speakers and moderators for this day must attend.</i>			
8:00 am – 8:20 am	Conference Opening – <i>Tate C</i> Introductions – <i>Rob Thornton, IDEA President & CEO</i> Welcome to IDEA's 36th Annual Campus Energy Conference – <i>David Musto, IDEA Chair</i> <i>Sponsored by CenTrio & Cordia</i>			
8:20 am – 9:30 am	Opening Plenary Panel Discussion: <i>District Energy: De-Carbonizing Campus Communities – Tate C</i> Panelists include: <i>Ruth Bennett, Sr. Director, Capital Programs, Tufts University</i> <i>Ted Borer, Energy Plant Director, Princeton University</i> <i>Suzanne Kitten, Managing Director Utilities, Texas Tech University</i> <i>Jennifer Meisenhelder, Director of Engineering & Energy, University of Florida</i> <i>Shantel Smith, Deputy Director Utilities Management, University of Wyoming</i> <i>David Woodson, Executive Director Campus Energy, Utilities & Operations, University of Washington</i> <i>Moderated by Rob Thornton, IDEA</i>			
9:30 am – 10:10 am	Refreshment Break with Business Partner Exhibitors – <i>Tate A/B – Sponsored by Bernhard & BOND</i> Poster Presentations* – <i>Tate Foyer</i>			
10:00 am – 4:15 pm	Spouse/Significant Other Tour – Grapevine + Glass Blowing – <i>Bus departs from the Gaylord Tour Bus Lobby.</i>			
1A: Transitioning from Steam <i>Moderator: Rajesh Dixit, Johnson Controls</i>	1B: Geothermal <i>Moderator: Meghan Riesterer, CenTrio</i>	1C: System Expansion, Modernization & Renewal <i>Moderator: Jesse Cabrera, Stanley Consultants</i>	1D: Thermal Energy Storage <i>Moderator: Dan Gentry, Trane</i>	1E: Reliability Opportunities in New York <i>Moderator: Frank Cuomo, Consolidated Edison</i>
Escondido	Mesilla	High Plains 2-3	High Plains 1	Texoma
10:15 am – 10:40 am				
Two Campuses – Two Solutions: EcoDistrict Innovation Delivers Decarbonization & Resiliency – <i>Devon Powell & Dan Stevenson, McKinstry; Lincoln Ferris, Seattle Central College; Alex Russell, Cushing Terrell</i>	Campus Upgrades: Geothermal Energy Networks – <i>Jay Egg, Egg Geo LLC</i>	Engineering Information Management – TECO's Single Source of Truth – <i>David Shaw, RedEye Apps Inc.</i>	Thermal Energy Storage – From Concept to Commissioning – <i>Guy Frankenfield, DN Tanks</i>	Strategic Electrification at Columbia University – <i>George Howe, Affiliated Engineers, Inc.; Adam Courtney, Columbia University</i>
10:45 am – 11:10 am				
Vanderbilt University: Central Utilities Initiative – <i>Randall Lee Hurt, Vanderbilt University; Nathan Cesarz, Affiliated Engineers Inc.</i>	Taking Advantage of Unique Subsurface Conditions for Innovative Design of Large Geothermal (Ground Source) Heat Pump Systems – <i>John Rhyner, CDM Smith, Inc.</i>	District Energy Expansion at Historic UGA North Campus – <i>Vance Nail, RMF Engineering, Inc.; Jason Perry, University of Georgia</i>	Multi-Source Heat Pump Systems And Seasonal Thermal Storage – <i>Gaylord Olson, Seasonal Storage Technologies</i>	Community Heat Pump Opportunities and Strategies for New York Buildings and Campuses – <i>David Jones, ICF</i>
11:15 am – 11:40 am				
Up and Running! Lessons Learned from the Carleton College Steam-to-Hot Water Transition – <i>Martha Larson, RMF Engineering, Inc.</i>	UrbanGeo Solution for Campuses – <i>Dave Hermantin, Brightcore Energy</i>	Improving Campus Plant Reliability by Re-Designing an Existing Plant Distribution & BSG System – <i>Hailey Slamka, CHA Consulting, Inc.; Nik Terpak, University of Rochester</i>	Two Decades of Experience with Low Temperature Fluid Thermal Energy Storage at DFW Int'l Airport – <i>John Andrepont, CHA Consulting, Inc.; Brian Yancy, DFW International Airport</i>	Decarbonizing College Campuses through Infrastructure Upgrades – <i>David Smith, Burns Engineering</i>
11:45 am – 12:10 pm				
Cascading Transitions: Steam to LTHW Master Plan at Cornell University – <i>Timothy Ervin, Ramboll; Frank Perry, Cornell University</i>	Feasibility of a Community Heat Pump – <i>Travis Smith, Smith Engineering</i>	University of Washington: Balancing Reliability and Sustainability with DRUPS – <i>John Solan & Larry Johnson, Stanley Consultants; Mark Kirschenbaum, University of Washington</i>	Expansion Of District Energy Operation and Impact On Thermal Storage – <i>Timothy Kearns, CenTrio Energy</i>	Update on District Thermal Energy Networks in New York State – <i>Rob Neimeier, Ramboll; Mitch DeWein, CHA Consulting; Greg Koumoullas, Consolidated Edison</i>
12:15 pm – 1:45 pm	Campus Energy Recognition and Networking Luncheon – <i>Tate C – Sponsored by Ramboll & Solar Turbines</i>			
1:45 pm – 2:30 pm	Dessert & Coffee with Business Partner Exhibitors – <i>Tate A/B – Sponsored by Ecosystem Energy Services</i> Poster Presentations* – <i>Tate Foyer</i>			

* Presenters available by their posters to answer questions during these times.

2A: Decarbonizing with District Energy <i>Moderator: Rob Neimeier, Ramboll</i>	2B: Geothermal, Cont'd <i>Moderator: Ted Borer, Princeton University</i>	2C: System Expansion, Modernization & Renewal, Cont'd <i>Moderator: John Williamson, RMF Engineering, Inc.</i>	2D: District Cooling <i>Moderator: Genevieve Lussier, Equinox</i>	2E: Innovative Solutions to Modern Problems <i>Moderator: Maribel Adydan, ENGIE</i>
Escondido	Mesilla	High Plains 2-3	High Plains 1	Texoma
2:30 pm – 2:55 pm				
ESG 101: The Journey to Decarbonization in Higher Education Starts with District Energy – <i>Meghan Riesterer, CenTrio Energy</i>	Investigating Deep Direct Use Geothermal Heat for Heating Cornell University – <i>Bert Bland, Cornell University</i>	University of Michigan CHP Expansion and Switchgear Upgrade Projects – <i>Melissa Seedorf & Malcolm Bambling, University of Michigan</i>	ENGIE/University of Iowa District Cooling Renewal Project Case Study – <i>Jeffery Gambrell, PRVN Consultants; Robert Murray, ENGIE North America</i>	Novel Volatile Filming Corrosion Inhibitor for Steam Boilers – <i>Richard Salazar, Veolia Water Technologies & Solutions</i>
3:00 pm – 3:25 pm				
Building Conversions – Post Conversion Performance and Commissioning (Case Study) – <i>Jeff Schroeder & Phil Vettoretti, Stantec Consulting Ltd.</i>	Geothermal Heating Solutions at University Campuses – <i>David Traxler, Jacobs</i>	Striving Toward a Brighter, Healthier Future – <i>Tricia Brown, CenTrio Energy</i>	Bridge to the Future: The Evolution of Cooling Technology at LSU – <i>Clifford Gillio, Louisiana State University; Fred Berry & Russell Garcia, Johnson Controls</i>	Large Scale Electrification of Central Plants with Heat Pumps – <i>Jairam Agaram, Digital Energy Inc.</i>
3:30 pm – 4:15 pm				
Refreshment Break with Business Partner Exhibitors – <i>Tate A/B – Sponsored by NextEra Energy Resources & Siemens Energy</i> Poster Presentations* – <i>Tate Foyer</i>				
3A: Meeting Decarbonization Goals with District Energy <i>Moderator: Bob Salvatelli, NextEra Distributed Water</i>	3B: Geothermal, Cont'd <i>Moderator: John Joyce, CHA Consulting, Inc.</i>	3C: Business Development in District Energy <i>Moderator: David Musto, Thermo Systems</i>	3D: District Cooling, Cont'd <i>Moderator: Aaron Bolhous, CHA Consulting Inc.</i>	3E: District Energy Infrastructure for Near and Net Zero Energy Communities <i>Moderator: Laura Duncan, Gilsulate International, Inc.</i>
Escondido	Mesilla	High Plains 2-3	High Plains 1	Texoma
4:15 pm – 4:40 pm				
Ultra-Low Temperature Heating for Ultra-High COP, Ultra-Low Carbon Heating – <i>Scott McCord, University of Minnesota</i>	Drilling Down Into Geo-exchange At UVA; How Eight Test Wells Informed Our Overall Geoexchange And Decarbonization Program – <i>Paul Zmick, University of Virginia</i>	Panel: Recruitment and Retention for Diversity and Inclusion <i>Panelists include:</i> <i>Chase Davis, RMF Engineering</i> <i>Chase Dube, University of Texas at Austin</i> <i>Chuson McFadden, Jacobs</i> <i>Jennifer Meisenhelder, University of Florida</i>	Western University Chilled Water Network Optimization – <i>Genevieve Lussier, Equinox; Heather Hyde, Western University</i>	Industrial Heat Pumps – Flexible Infrastructure for an Electrified Future – <i>Chris Fraughton, MAN Energy Solutions</i>
4:45 pm – 5:10 pm				
Decarbonizing the US's Largest Community College District – <i>Victoria Watson, AECOM; Bharat Patel, Jacobs; Aravind Batra, P2S; Kameron Beeks, Glumac</i>	Decarbonizing Troy – A Case Study on District Geothermal – <i>Mitch DeWein, CHA Consulting, Inc.; Dylan Turek, City of Troy, New York; Shadrach Treat, Siemens</i>		Machine Learning to Optimize Campus Cooling – <i>Travis Smith, Smith Engineering; Rory Peters, Ever-Green Energy</i>	A New Approach of Energy And Carbon Management for a University Campus – <i>Larry (LIJUN) Yang, University of Toronto</i>
5:15 pm – 6:45 pm				
Cocktail Reception with Business Partner Exhibitors – <i>Tate A/B – Sponsored by Chem-Aqua & Jacobs</i> Young Professionals Group (YPG) Networking Meeting – <i>Tate A/B</i> Poster Presentations* – <i>Tate A/B</i>				

SAVE THE DATES



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WEDNESDAY, March 1				
7:00 am – 5:00 pm	Registration Open – <i>Vineyard Foyer</i>			
7:00 am – 7:50 am	Breakfast with Business Partner Exhibitors – <i>Tate A/B – Sponsored by Facility Grid</i>			
7:00 am – 7:45 am	Speaker Orientation Meeting/Breakfast – <i>San Saba 3 – Speakers and moderators for this day must attend.</i>			
4A: Efficient Operations <i>Moderator: Bryan Kleist, Cordia</i>	4B: Controls <i>Moderator: Grant Selking, Thermo Systems</i>	4C: Business Models & Financing <i>Moderator: Joanna Pyun, Affiliated Engineers Inc.</i>	4D: Integrating Renewables & Future Fuels <i>Moderator: David Traxler, Jacobs</i>	4E: System Optimization <i>Moderator: Diego Mandelbaum, Creative Energy</i>
Escondido	Mesilla	High Plains 2-3	High Plains 1	Texoma
8:00 am – 8:25 am				
A New Algorithm to Reduce CHP/CHCP Costs & Emissions without Equipment Changes – <i>Harry Shapiro, Princeton University</i>	Energy Conservation vs. Campus Growth: Implementing Campus Utility Submetering – <i>Shannon McAuliffe, utiliVisor; M. Jeff Davidson & Michael Charlton PhD, University of Texas Health Science Center San Antonio</i>	De-carbonizing Campus with Grants and Steam as a Service – <i>Dean Moretton & Janet Reiser, Hydrogen Technologies</i>	Hydrogen CHP: The Lowest Cost, Least Risk Way to Net-Zero – <i>Emily Robertson, 2G Energy Inc.</i>	Heat Recovery Using Condensing Economizers and High Temperature Heat Pumps – <i>Keith Bate, Creative Energy.; Joshua Wauthy, The University of British Columbia</i>
8:30 am – 8:55 am				
Oberlin College Carbon Neutrality – Leveraging Past Investments To Enable Cost-Effective Transformation – <i>Michael Ahern, Ever-Green Energy; Kevin Brown, Oberlin College</i>	Remote Condition Monitoring in District Energy Systems – <i>Casey Benhart, ABB</i>	Capital Planning for District Geothermal and How to Avoid Missed Opportunities – <i>Tim Banach, Endurant Energy</i>	Fuel-Switching to Biomass: Low Cost Decarbonization on a Pathway to Negative Emissions – <i>Jamie Stephen, TorchLight Bioresources</i>	Increasing Reliability And Resiliency Through Chilled Water Plant Optimization – <i>Ben Erpelding, Optimum Energy; Colin Hartwell, University of Texas Medical Branch Galveston</i>
9:00 am – 9:25 am				
Architect of the Capitol – Energy Audit - Improving Efficiency Through Data – <i>Chris Richardson, WileyWilson</i>	A Path to Neutrality Part III: Princeton University TIGER – Interim Construction Progress Update – <i>Justin Grissom, Burns & McDonnell; Rajesh Dixit, JCI; Blair Bestor, Salas O'Brien; Ted Borer, Princeton University</i>	An Overview of Federal Funding Opportunities for Energy Projects – <i>Rod Schwass, Jacobs</i>	Generating Power from Biomass Using CHP-Installation Examples – <i>Morgan Hendry, SSS Clutch Company, Inc.; Nicholas Bellamy, SSS Gears Limited</i>	District Cooling Optimization at UT Health Science Center at Tyler, TX – <i>Derek Supple, Johnson Controls Inc.</i>
9:30 am – 9:55 am				
Post Decarbonization Study Reality: The Actual Cost of Decarbonization at UVA – <i>Paul Zmick, University of Virginia</i>	Controls For the Modern Thermal Energy Plant – <i>Grant Kircher & Timothy Sawma, Thermo Systems</i>	Georgetown University and Engie – A District Energy Partnership – <i>Geoff Gunn, & Benton Erwin, Arup; Kevin Turner, Georgetown University; Tirelle Lee, Georgetown Energy Partners, LLC</i>	Case Study: Wastewater Energy Recovery at Ielam Development – <i>Jodi Guthrie, SHARC Energy Systems Inc.</i>	Key Strategies to Optimize Hydronic Distribution System for Improved Plant Performance – <i>Soham Neupane, IMI Hydronic Engineering</i>
10:00 am – 10:45 am				
Refreshment Break with Business Partner Exhibitors – <i>Tate A/B – Sponsored by CPower Energy & The Whiting-Turner Contracting Company</i> Poster Presentations* – <i>Tate A/B</i>				
5A: Decarbonizing with District Energy <i>Moderator: Tricia Brown, CenTrio</i>	5B: Data & Monitoring <i>Moderator: Kevin Porter, Thermo Systems</i>	5C: Optimizing Resources <i>Moderator: Tim Peer, BOND</i>	5D: Nuclear <i>Moderator: Dan Dixon, EPRI</i>	5E: Microgrids for Resiliency <i>Moderator: Carol Denning, Center for Sustainable Energy</i>
Escondido	Mesilla	High Plains 2-3	High Plains 1	Texoma
10:45 am – 11:10 am				
Thompson Rivers University Low-Carbon DES – Achieving a Fossil Fuel-Free Campus by 2030 – <i>Diego Mandelbaum, Creative Energy; Matt Milovick, Thompson Rivers University</i>	Leveraging Data and Digitalization to Drive a “Top Tier Energy Management Program” at SMU – <i>David Fuqua, Southern Methodist University and Siemens; Michael Molina, Southern Methodist University</i>	Alternative Strategies to Improve Valuation, Advance Decarbonization, and Increase Energy Savings – <i>John Carroll, IonicBlue</i>	Nuclear Energy 101 – <i>Jeremy Shook, EPRI</i>	MIT Microgrid Campus Upgrade for Improving Resiliency and Reducing Blackouts – <i>Abdel Rahman Khatib, Schweitzer Engineering Laboratories Inc.; Wayne Schweidenback, R.G. Vanderweil Engineers, LLP; Frances Boyle, MIT</i>
11:15 am – 11:40 am				
Combined Heating and Cooling of Berlin's City Center Using A Novel High Temperature Heat Pump – <i>Johnny Yan & Kevin Moritz, Siemens Energy, Inc</i>	Measure Your Campus Decarbonization with Confidence – <i>Lalit Agarwal, EnergyCAP, LLC; Brian Bozell, University of Chicago</i>	Utilizing Energy Performance Contracting as a Campus De-Carbonization Tool – <i>Sylvia McIvor, Veregy; Robert Roman, University of Illinois at Urbana-Champaign</i>	Plans at University of Illinois for Campus Nuclear – <i>Caleb Brooks, University of Illinois</i>	Powering Through: UMB Committed to the Future – <i>Jared Markle & Stephen Pollard, RMF Engineering, Inc.</i>
11:45 am – 12:10 pm sessions →				