



IDEA2024

District Energy for Sustainable Cities

June 17 – 20 | Orlando, FL



CONFERENCE PROGRAM

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IDEA2024 Mobile App

The IDEA2024 Mobile App includes everything you need to get you through 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 Wednesday (must be present to win).

- Download the Cvent Events app in the App Store or Google Play Store. Search for IDEA2024: District Energy for Sustainable Cities
- Enter your name and email to receive a verification code to log in.
 - Enter your first name, last name, and the email you registered for the conference with, click “next.” 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.



MONDAY, JUNE 17

6:15 am – 2:00 pm	IDEA Annual Golf Tournament – <i>Disney's Palm Golf Course, An Arnold Palmer Course</i>
7:00 am – 7:00 pm	Registration Open – <i>Crystal Registration Desk</i>
8:00 am – 4:00 pm	Exhibit Setup – <i>Oceans 5-12</i>
7:00 am – 8:00 am	Workshop Breakfast – <i>Oceans 3-4</i> (Breakfast for all registered workshop attendees.)
7:00 am – 7:45 am	Workshop Speaker Orientation Meeting – <i>Palani</i>
8:00 am – 3:50 pm	Workshop – District Energy for Sustainable Cities – <i>Oceans 1-2</i>
4:00 pm – 5:10 pm	Forums – Open meetings for attendees to discuss current industry issues by specialty area. <ul style="list-style-type: none">• District Cooling Forum – <i>Tarpon</i>• Industry Leaders Forum – (General Manager, President and C-Level DE Operating System members) – <i>Unicorn</i>• District Energy Women's Initiative (DEWI) Forum – <i>Palani</i>• Future Energy Forum – <i>Nomeus</i>• Business Development Forum – <i>Walu</i>• Young Professionals Group (YPG) Forum – <i>Zander</i>
5:15 pm – 6:30 pm	Ribbon Cutting to Open Exhibit Hall for Business Partners Welcome Reception – <i>Oceans 5-12</i> <i>Sponsored by CenTrio, Enwave & Johnson Controls</i>
7:00 pm – 9:30 pm	Annual Awards and Welcome Dinner – <i>Crystal Ballroom</i> <i>Sponsored by Cordia, Corix & Empower</i>

TUESDAY, JUNE 18			
7:00 am – 6:45 pm	Registration Open – Crystal Registration Desk		
7:00 am – 7:50 am	Breakfast with IDEA Business Partners – Oceans 5-12 – Sponsored by Ramboll		
7:00 am – 7:45 am	Speaker Orientation Meeting/Breakfast – <i>Speakers and moderators for this day must attend</i> – Palani		
8:00 am – 8:20 am	Conference Opening – Crystal Ballroom Introductions – <i>Robert Thornton, IDEA President & CEO</i> Welcome to IDEA – <i>Carlyle Coutinho, IDEA Chair, Enwave CEO</i> Welcome to Orlando – <i>Attila Miszti, Chief Operating Officer, Orlando Utilities Commission</i>		
8:20 am – 9:20 am	Opening Plenary Panel # 1 – District Energy for Sustainable Cities – Crystal Ballroom Panelists: <ul style="list-style-type: none"> • Earl Collins, CEO, Cordia • Carlyle Coutinho, CEO, Enwave • Luke Gaalswyk, CEO, Ever-Green Energy • Kevin Hagerty, President, Vicinity Energy • Christina Ho, VP, Con Edison • Eric Miller, CEO, CenTrio • Lisa Sparrow, CEO, Corix Moderated by Rob Thornton, President & CEO, IDEA		
9:20 am – 10:15 am	Opening Plenary Panel # 2 – Global Leaders Panel – Crystal Ballroom Panelists: <ul style="list-style-type: none"> • Khalid Al Marzooqi, CEO, Tabreed (Abu Dhabi, UAE) • Ahmad Bin Shafar, CEO, Empower (Dubai, UAE) • Joan Kowal, Client Manager, Energy & Power – Americas, Jacobs (USA) • Werner Lutsch, CEO, AGFW (Germany, EU) • Hilda Cristina Mariaca Orozco, Coordinator District Energy Projects, Ministry of Environment, Colombia (Latin America) • Gabriele Pesce, Innovation & Sustainable Finance Director, Euroheat & Power (Belgium, EU) Moderated by Rob Thornton, President & CEO, IDEA		
9:30 am – 3:00 pm	Spouse/Significant Other Program – <i>A day at Disney Springs for registered spouse/guests.</i>		
10:15 am – 10:55 am	Refreshment Break with IDEA Business Partners – Oceans 5-12 – Sponsored by Affiliated Engineers		
Session A: Oceans 1		Session B: Oceans 2	Session C: Oceans 3
1A Large Heat Pumps and Energy Recovery Technologies <i>Moderator: Larry Salguero, Baker Hughes</i>		1B Smarter Cities and Resilient Energy Infrastructure <i>Moderator: Kimberly Greene, 2G Energy</i>	1C Controls, Monitoring and Meterings <i>Moderator: Jeffry Childress, Thermo Systems</i>
			1D Geothermal Symposium <i>Moderator: Bryan Kleist, Cordia</i>
11:00 am – 11:25 am			
Steam Heat Pumps & District Applications – <i>Cameron Leitch, Enwave Energy Corporation; Jonathan Leape, Arup</i>	Driving The Future of Plant Optimization With Transformational Technology – <i>Mark Thompson & Kate Anderson, Johnson Controls</i>	Data: The First Step In Your Decarbonization Journey – <i>Lalit Agarwal, EnergyCAP, LLC</i>	U.S. DOE Community Geothermal Heating and Cooling Design and Deployment Status – <i>Arlene Anderson, US Department of Energy</i>
11:30 am – 11:55 am			
Decarbonizing a District Energy System with Large-Scale Heat Pumps – <i>Andrew Kozak & Joaquin Font, BR+A</i>	Transforming the Bellingham's Waterfront District with District Energy – <i>Jeff Giffin, Corix</i>	Autonomous AI for Mission Critical Cooling Optimization – <i>Melanie Malone, Merck; Christine Phillips, Phaidra</i>	Hybrid Geothermal Systems for Campuses – <i>David Traxler, Burns & McDonnell</i>
12:00 pm – 12:25 pm			
Electrode Boilers & Thermal Energy Storage – <i>Harry Lam, Zander & Ingestrom</i>	Leveraging a Modular Approach to Improve Resiliency and Modernize Aging Infrastructure – <i>York Brogden, Jacobs</i>	The Cyber-Security Expedition: Mapping Out Critical Control Safety – <i>J. Brandon Cook, Thermo Systems</i>	From Campus to Community: Framingham Utility Geothermal Network Project – <i>Joshua Soble, Celsius Energy; Zeyneb Magavi, HEET</i>

TUESDAY, JUNE 18 – Cont'd

12:30 pm – 2:00 pm	Keynote Luncheon – Crystal Ballroom MOU Signing – AGFW & IDEA Keynote Address by Brian Deese, MIT Institute Innovation Fellow, former Director, National Economic Council <i>Sponsored by Burns & McDonnell, Siemens Energy & Thermo Systems</i>		
2:00 pm – 2:40 pm	Dessert and Coffee Networking Break with IDEA Business Partners – Oceans 5-12 DEWI Meetup <i>Sponsored by Jacobs</i>		
Session A: Oceans 1	Session B: Oceans 2	Session C: Oceans 3	Session D: Oceans 4
2A Large Heat Pumps and Energy Recovery Technologies, Cont'd <i>Moderator: Jim Riley, CenTrio</i>	2B Smarter Cities and Resilient Energy Infrastructure, Cont'd <i>Moderator: Michele Bryant, Austin Energy</i>	2C P3 to Accelerate Energy Infrastructure <i>Moderator: Colin Moyer, Affiliated Engineers</i>	2D Geothermal Symposium, Cont'd <i>Moderator: Dalia El Tawy, Siemens Energy</i>
2:45 pm – 3:10 pm			
Large Seawater Heat Pump with CO ₂ as Refrigerant – <i>Alexandre de Rougemont, MAN Energy Solutions</i>	Proactive Assessment of Climate Change Impacts: MIT Heat Impacts Case Study – <i>Jesse Cabrera, Stanley Consultants; Pierce Holloway, Resilient Analytics, a Stanley Consultants company</i>	Public Private Partnerships to Accelerate Energy Infrastructure – <i>Rick Humphries, Salas O'Brien</i>	Distributed Geothermal Supply, Demand and Adoption Modeling For Evaluating Potential of Ambient Loop District Heating And Cooling Systems – <i>Koenraad Beckers, National Renewable Energy Laboratory</i>
3:15 pm – 3:40 pm			
Natural Refrigerant Heat Pump for District Energy Systems – <i>Benoit Rodier, CIMCO</i>	Accelerating Cities Decarbonization Plans from Concept to Action – <i>Nicole Stika, World Kinect; Aaron Marcovy, NOPEC</i>	Public / Private Partnerships to Expedite District Scale WET Projects – <i>Mel Clark, CleanTech Alliance</i>	Large Heat Pump Integration with Multilateral Closed-Loop Geothermal Systems – <i>Ryan Martin, Eavor Technologies</i>
3:45 pm – 4:25 pm	Refreshment Break with IDEA Business Partners – Oceans 5-12 – <i>Sponsored by Baker Hughes</i>		
Session A: Oceans 1	Session B: Oceans 2	Session C: Oceans 3	Session D: Oceans 4
3A Large Heat Pumps and Energy Recovery Technologies, Cont'd <i>Moderator: Morgan Hartman, Trane</i>	3B Distribution Systems and Customer Buildings <i>Moderator: Ayman Fahmy, KWL</i>	3C District Energy and CHP Case Studies in Cities, Communities and Campuses <i>Moderator: Lalit Agarwal, EnergyCap</i>	3D Geothermal Symposium, Cont'd <i>Moderator: Jenae Batt, Ever-Green Energy</i>
4:30 pm – 4:55 pm			
District Connected Heat Pumps at The Royal York Hotel – <i>Carson Gemmill, Enwave Energy; Dan Stranges, Continual Energy Inc.</i>	District Energy Transmission Line Planning in an Urban Environment: Considerations and Evaluation – <i>Sarah Wellman, Metro Vancouver; Yashfeer Muttur, Kerr Wood Leidal Associates Ltd.</i>	A Plan To Reach 5th/6th Generation Geothermal District Heating Cooling + Advanced Thermal Storage at MIT by 2035 – <i>Jason Chen, Mass Institute of Technology</i>	G2COOL: Geothermal Cooling – <i>Antonio Di Cecca, National Central Cooling Company PJSC (Tabreed)</i>
5:00 pm – 5:25 pm			
First Year Insight from a Large Heat Pump Producing 170F Heating Water at UVA – <i>Paul Zmick, University Of Virginia; Samuel Chatterton, Johnson Controls; Colin Moyer, AEI</i>	Looking Through a Long-Term Lens: Modeling District Energy Service Demand Through 2050 – <i>Courtney Sourmehi, US Energy Information Administration</i>	Flexing CHP to Complement Renewables in Real-Time – <i>Kevin Jensen, Solar Turbines</i>	Decarbonizing Downtown Denver with an Ambient Loop Geothermal System – <i>Brian Urlaub, Salas O'Brien</i>

TUESDAY, JUNE 18 – Cont'd

5:30 pm – 6:45 pm	Reception with Business Partners in the Exhibit Hall – Oceans 5-12 YPG Meetup <i>Sponsored by CenTrio, Enwave & Johnson Controls</i>
	Open Evening – <i>Enjoy an open evening.</i>

WEDNESDAY, JUNE 19

7:00 am – 4:00 pm	Registration Open – Crystal Registration Desk			
7:00 am – 7:50 am	Breakfast with IDEA Business Partners – Oceans 5-12			
7:15 am – 7:45 am	Speaker Orientation Meeting/Breakfast – <i>Speakers and moderators for this day must attend</i> – Palani			
Session A: Oceans 1	Session B: Oceans 2	Session C: Oceans 3	Session D: Oceans 4	Session E: Coral Ballroom
4A Large Heat Pumps and Energy Recovery Technologies, Cont'd <i>Moderator: Paul Holt, Corix</i>	4B Policy and Funding Opportunities <i>Moderator: Mark Spurr, FVB Energy</i>	4C District Cooling Thermal Energy Storage <i>Moderator: Mark Schneider, Cordia</i>	4D Maximizing Resiliency with Microgrids <i>Moderator: Lindsey Kuhnen, Jacobs</i>	4E Decarbonizing with District Energy <i>Moderator: Rob Neimeier, Ramboll</i>
8:00 am – 8:25 am				
Enabling Ambitious Climate Action Goals at the University of British Columbia (UBC) with District Energy – <i>Shiva Prakash, Corix</i>	The Push for Electrification: Status, Challenges and Strategies – <i>Mark Spurr, FVB Energy Inc.</i>	A Brief World Tour of Unique Thermal Energy Storage Installations – <i>John Andrepont, The Cool Solutions Company</i>	Microgrids and Decarbonization: Myths and Realities – <i>Justin Gruetzner, Burns & McDonnell</i>	The New Carbon Frontier: Integrating Embodied Carbon in Energy Planning – <i>Annie Kell & Chris Vaughan, Burns & McDonnell</i>
8:30 am – 8:55 am				
Bitcoin & Brews: NOT Your Father's Server Heat Recovery Solution – <i>Jennifer Zee & Colin Sullivan, MintGreen</i>	Maximizing the Tax Benefits in the Inflation Reduction Act – <i>Gelane Diamond, Duncan, Weinberg, Genzer & Pembroke, P.C.</i>	Decarbonizing District Energy Using "Thermal Batteries" – <i>Jim Koontz, Rock Energy Storage; Gadi Sharir, Brennmiller Energy</i>	Hybrid Energy Solutions for Sustainable Cities – <i>Alex Marshall, Clarke Energy</i>	Revolutionizing District Energy with a Strategic GHG Integration Program – <i>Meghan Riesterer, CenTrio; Maria-Louise McMaster, Quinn & Partners</i>
9:00 am – 9:25 am				
Decarbonizing Toronto General Hospital: Converting DE Steam to Low-carbon – <i>Ankur Mehrotra, Enwave Energy Corporation; Frankie Tarascio, Purpose Building</i>	Funding Opportunities for Energy Investments – <i>Stephen Borman, Rick Clifford, Hannah Hawkins, KPMG</i>	Maxwell Nanoparticles Field Test at Plant AD-017 in Abu Dhabi – <i>Antonio Di Cecca, National Central Cooling Company PJSC (Tabreed)</i>	Microgrids And On-Site Power Generation For Data Centers – <i>Dalia El Tawy, Siemens Energy</i>	The Evolution and Decarbonization of Dockside Green's District Energy System – <i>Jason Owen, Corix</i>
9:30 am – 9:55 am				
Hamilton's Electric Shift: Transforming District Energy with E-Boilers & Heat Pumps – <i>Mike Hassaballa, HH Angus; Joshua Fitzpatrick, Hamilton Community Enterprises</i>	Mandatory Heating Planning Policy in Germany – <i>Werner Lutsch, AGFW</i>	Roundtable Discussion on Thermal Energy Storage – <i>Moderated by John Andrepont</i>	Building and Owning a Campus Microgrid that Maximizes Renewable Energy – <i>Pavan Mandava & Nina Selak, Jacobs</i>	Decarbonizing District Steam Energy at UPMC – <i>Adriana Roath & Joe Witchger, HGA</i>
8:15 am – 4:00 pm	Spouse/Significant Other Program – Kennedy Space Center			
10:00 am – 10:40 am	Refreshment Break with IDEA Business Partners – Oceans 5-12 – <i>Sponsored by Kerr Wood Leidal</i>			

WEDNESDAY, JUNE 19 – Cont'd

Session A: <i>Oceans 1</i>	Session B: <i>Oceans 2</i>	Session C: <i>Oceans 3</i>	Session D: <i>Oceans 4</i>	Session E: <i>Coral Ballroom</i>
5A Large Heat Pumps and Energy Recovery Technologies, Cont'd <i>Moderator: Rajesh Dixit, Johnson Controls</i>	5B Water Conservation and Optimization Strategies <i>Moderator: Pat Guccione, Chem-Aqua, Inc.</i>	5C Utilizing Wastewater <i>Moderator: Leslie Fangman, Fangman Associates</i>	5D District Energy 102 with the IDEA Young Professionals Group <i>Moderator: Paige Davis, Austin Energy</i>	5E Decarbonizing with District Energy, Cont'd <i>Moderator: Johnathan Coleman, Solar Turbines</i>
10:45 am – 11:10 am			10:45 am – 12:10 pm	10:45 am – 11:10 am
Thermal Energy Networks in Rochester, MN – <i>Scot Ramsey, City of Rochester, MN</i>	Utilizing Recycled Water In District Cooling Plants: A Case Study of Success In Water-Scarce Regions – <i>Eng Hamad Mohammed Bawazir, Qatar General Electricity & Water Corporation</i>	Harnessing Hidden Energy: Wastewater Energy Recovery Overview and Case Study: Ielam Development – <i>Michael Albertson, SHARC Energy Systems Inc</i>	Are you new to District Energy and looking for a solid introduction to the terms and topics that will benefit you as you grow in this industry? Then we invite you to attend District Energy 102 presented by the IDEA Young Professionals Group. Presentations to include: 1. Software & Analytics – <i>Sarah Kline, HanAra Software</i> 2. Thermal Distribution – <i>Derek Tompkins, & Zach Ecker, Primoris Energy Services Corporation</i> 3. Heat Pumps – <i>Bashar Naser, CIMCO Refrigeration</i>	Developing Enwave's ESG Report: Building a Strong Foundation for Future Disclosures – <i>Sarah Bertollo, Enwave Energy Corporation</i>
11:15 am – 11:40 am				11:15 am – 11:40 am
Heat Pump for Industrial Steam Production Using Natural Refrigerants – <i>Thomas Staude, MAN Energy Solutions SE</i>	Superior Cooling Tower Treatment That Won't Adversely Affect Environments – <i>Lex Lamotte, Lamotte Water Management</i>	Wastewater Heat Recovery District Systems: An Opportunity to Drive Energy Resiliency, Savings and Decarbonization – <i>Ed Rubinstein, Noventa Energy Partners</i>		Decarbonization with District Energy – <i>Niall Pidgeon & Madeleine King, FVB Energy Inc.</i>
11:45 am – 12:10 pm				11:45 am – 12:10 pm
Decarbonizing Life Science with Sewer Heat – <i>Devon Powell & Michael Hedrick, McKinstry</i>	Water Conversation Via pH Control – <i>Caleb VanderWeide, Nalco Water, an Ecolab Company; Aaron Fagen, Orlando Utilities Commission</i>	Using Wastewater as a Thermal Source for District Heating/ Cooling – <i>Nate Madding, HUBER Technology</i>		Major Scale Collaborative CO ₂ Mitigation: Innovating Steam Technologies to Support Imminent Climate Goals in Seattle – <i>Darrel Tremaine, Ian Goeperd, CenTrio</i>
12:15 pm – 1:45 pm	IDEA Annual Business Meeting and Recognition Luncheon – <i>Crystal Ballroom</i> <i>Sponsored by Chem-Aqua, Solar Turbines & Trane</i>			
1:45 pm – 2:25 pm	Dessert and Coffee Networking Break with IDEA Business Partners – <i>Oceans 5-12</i> <i>Sponsored by Stanley Consultants</i> <i>Raffle prizes to be awarded, must be present to win.</i>			
2:25 pm – 6:00 pm	Exhibit Hall Tear Down – <i>Oceans 5-12</i>			

CampusEnergy2025
Accelerating The Energy Transition
FEBRUARY 3 – 6, 2025
Westin Boston Seaport District | Boston, MA



IDEA2025
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WEDNESDAY, JUNE 19 – Cont'd

Session A: <i>Oceans 1</i>	Session B: <i>Oceans 2</i>	Session C: <i>Oceans 3</i>	Session D: <i>Oceans 4</i>	Session E: <i>Coral Ballroom</i>
6A Sustainable District Energy <i>Moderator: Jesse Cabrera, Stanley Consultants</i>	6B Meet the Experts <i>Moderator: Scott Szycher, IDEA</i>	6C System Expansion, Modernization and Renewal <i>Moderator: Nathan Ninemire, Burns & McDonnell</i>	6D Future Fuels <i>Moderator: Meghan Riesterer, CenTrio</i>	6E Decarbonizing with District Energy, Cont'd <i>Moderator: Neil Breen, Ramboll</i>
2:30 pm – 2:55 pm	2:30 pm – 3:25 pm	2:30 pm – 2:55 pm		
District Energy Decarbonization Study – <i>Aaron Frahm & Robert Spreitzer, Cordia</i>	Meet the Experts Panel Panelists include representatives from: <ul style="list-style-type: none">• <i>Jim Riley, CenTrio</i>• <i>Jason Brimble, Enwave</i>• <i>Mark Thompson, Johnson Controls</i>	Utilizing Existing Utilities to Transform Campus Utilities – <i>Blake Ellis, Burns & McDonnell; Brett Gorden, Mayo Clinic</i>	Financial Cases for Hydrogen Boilers – <i>Aaron Nackos, Hydrogen Technologies LLC</i>	City of Oneonta, NY – Decarbonizing from Natural Gas: Comparative Analysis of Thermal Energy Network Alternatives – <i>Rob Neimeier, Ramboll</i>
3:00 pm – 3:25 pm		3:00 pm – 3:25 pm		
Advancing Energy Transition: Design Considerations for Electrode and Resistive Boilers for Sustainable District Energy – <i>Mike Hassaballa & Greg Snow, HH Angus</i>		T.I.G.E.R. Geo-exchange Campus Energy – <i>Ralph Merritt & Brooke Lautt, The Whiting-Turner Contracting Co.</i>	HYFLEXPOWER: Successful Demonstration of a Power-To-X-To-Power Project With a 100% H2 Turbine – <i>Alexander Lawford, Siemens Energy</i>	Maximize Decarbonization of Electric Grid by Turbine Inlet Cooling of District Energy Systems – <i>John Andrepont, The Cool Solutions Company</i>

THURSDAY, JUNE 20

7:30 am – 9:00 am	Breakfast Briefing with Pre-Tour Overview Presentation – <i>Crystal Ballroom A/B</i>
9:15 am – 1:30 pm	Technical Tours – <i>Pre-registration is required to attend the Technical Tours.</i> Technical Tours will visit two of OUC's cooling plants – Downtown North Plant and the Universal Plant. The bus will drop participants at Orlando International Airport around 1:00 pm before returning to the Renaissance Hotel.

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