



110TH ANNUAL CONFERENCE & TRADE SHOW | June 24-27
David L. Lawrence Convention Center / Westin Convention Center Hotel | Pittsburgh, PA

*Preliminary Program 6.19.19
TIMES ARE SUBJECT TO CHANGE*

Workshop 1: District Energy: Think Global, Act Local

Location: Room 406

| Monday, June 24 | |
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| 7:00 am – 7:00 pm | Registration Open – Ballroom Gallery |
| 7:00 am – 7:50 am | Workshop Breakfast – Ballroom B Continental breakfast for all registered workshop attendees. |
| 8:00 am – 8:15 am | <p>Opening Remarks and Setting the Context – Laxmi Rao, IDEA</p> <p>Cities, campuses, counties, states and nations across the globe are engaged in setting objectives and targets for a low carbon energy infrastructure. The focus is predominantly on electric technologies and often ignores the need to serve heating and increasingly cooling loads from end use sectors including campuses, airports, data centers, hospitals and industry. District Energy and combined heat and power can play incorporate thermal energy at scale and play a vital role in the path to a low-carbon energy infrastructure that is also reliable, efficient and resilient.</p> |
| Session 1 – Global Approaches and Best Practices for Low Carbon, Reliable and Resilient Energy Infrastructure | |
| 8:15 am – 9:00 am | <p>Panelists from the City of Boston, City of Pittsburgh, London, UK, and Metropolitan Area Planning Council (MAPC), the regional planning agency serving the people who live and work in the 101 cities and towns of Metropolitan Boston, will be invited to share insights into best practices and what local activities are being undertaken to embrace a path forward to an energy infrastructure of the future. Invited panelists include:</p> <ul style="list-style-type: none"> • Bradford Swing, City of Boston, Boston, MA • Grant Ervin, City of Pittsburgh, Pittsburgh, PA • Michael King, District Energy Development Ltd, London, UK • Cameron Peterson, MAPC, Boston, MA <p>Moderator: Laxmi Rao, IDEA</p> |

| Session 2 – Planning & Development of Thermal Networks | |
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| 9:00 am – 10:00 am | <p>This session will present THERMOS, a data driven tool that helps accelerate the planning and development of Thermal Networks, including designing a new network based on an existing energy source, adding new sites and connections to an existing network, and discuss approaches to methods and models for high resolution energy mapping data.</p> <p>Presented by: <i>Paolo Michele Sonvilla, Creara Energy Experts, Madrid, Spain & Josh Thumim, Center for Sustainable Energy, Bristol, UK</i></p> |
| 10:00 am – 10:30 am | Refreshment Break – Ballroom B |
| 10:30 am – 11:00 am | The Comprehensive Energy Strategy Approach for Cities, Campuses & Communities – <i>Mark Adams, Duke Energy One</i> |
| Session 3 – Technology Deep-Dive on GeoExchange | |
| <p>This session will cover a variety of considerations that are critical for successful design and deployment of GeoExchange Systems to meet Decarbonizing objectives.</p> | |
| 11:00 am – 11:20 am | <p>Overview of Critical Design Factors – Mark Spurr, FVB Energy</p> <ul style="list-style-type: none"> • Annual heating and cooling energy balance and/or more generous well spacing to ensure no long-term degradation in performance • Impact of new vs. retrofitted building space on temperature requirements and thus heat pump COP • Open loop vs. closed loop • Geologic variables • Distributed vs. district implementation |
| 11:20 am – 12:00 pm | <p>Expert panelists will discuss the opportunities and drivers for the development and deployment of GeoExchange systems in cities, towns and campuses. Invited panelists include:</p> <ul style="list-style-type: none"> • Daniel Dixon, Lincoln Electric System, District Energy Corporation, Nebraska Utilities Corporation • Tom Nyquist, Princeton University • Jeff Urlaub, MEP Associates <p>Moderator: <i>Mark Spurr, FVB Energy</i></p> |
| 12:00 pm – 1:00 pm | Workshop Luncheon – Ballroom B For Workshop Attendees Only |
| Session 4 – Pittsburgh Local Action & Path Forward | |
| 1:00 pm – 3:00 pm | <p>This session will showcase local systems, initiatives, action and strategies in Pittsburgh cities to meet low carbon objectives while ensuring business continuity and promoting innovation. Invited speakers include:</p> <ul style="list-style-type: none"> • The Champion City – <i>Grant Ervin, City of Pittsburgh</i> • The Evolving District Energy Systems Landscape in Pittsburgh – <i>Cliff Blashford, Clearway Energy</i> • Energy Mapping for Decarbonization – <i>Katrina Kelly-Pitou, University of Pittsburgh; Tom Tarka, National Energy Technology Laboratory (NETL)</i> • The Aarhus Case: Cutting Carbon Emissions in Half with District Energy – <i>Bjarne Munk Jensen, Aarhus AffaldVarme</i> • Moving District Energy Projects from Concept to Completion: DE Handbook As A Tool – <i>Shirin Karoubi, Danish Consulate in Toronto; Niels Vilstrup, Embassy of Denmark</i> |

| Session 5 – The Importance of International Cooperation | |
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| 3:00 pm – 3:30 pm | <p>Introduction – <i>Robert Thornton, President & CEO, IDEA</i></p> <p>International Cooperation in District Energy – Korea and USA - <i>Hwang Chang-hwa, CEO, Korea District Heating Corporation</i></p> <p>Presentation of Gift – <i>James Lodge, Vice President, Strategy and Business Development, Clearway Thermal Energy</i></p> |
| 3:30 pm – 4:00 pm | Wrap Up Remarks and Closing Discussion – <i>Laxmi Rao, Senior Director, IDEA</i> |
| 4:00 pm – 5:30 pm | <p>Forums – Open meetings for IDEA members to discuss current industry issues by specialty area.</p> <p>District Cooling Forum – <i>Room 315</i></p> <p>Microgrid Forum – <i>Room 316</i></p> <p>Operations & Safety Forum – <i>Room 317</i></p> |
| 5:30 pm – 7:00 pm | Exhibit Hall Ribbon Cutting & Business Partners Welcome Reception – <i>Exhibit Hall B</i> |
| | <p>Poster Exhibits – <i>Exhibit Hall B</i></p> <p>Innovation Award Posters. This year’s winner, honorable mentions and select nominees will be available by their posters to discuss the projects they submitted for this year’s Innovation Award.</p> |
| 7:00 pm – 9:30 pm | <p>Welcome Dinner – <i>Exhibit Hall B</i></p> <p>IDEA warmly invites our attendees and guests to join us for a casual and relaxed evening of food, fun, refreshments and friendly competition. Grab a plate, fill your glass and make your way to the quarterback toss challenge, the giant Jenga, the putting green or the virtual race track challenge. Pittsburgh loves its sports teams and we know how much IDEA members enjoy friendly competition, so bring your sneakers and win some fun prizes and claim your bragging rights.</p> |