

IDEA 2014: Moving Community Energy Forward



SUNDAY, JUNE 8

- 6:00 am – 3:00 pm **IDEA Annual Golf Tournament**
- 7:00 am – 7:00 pm **Registration Open – *West Lobby of the Washington State Convention Center***
- 9:00 am – 4:00 pm **Community Energy Planning Workshop: Community Energy Development Guide + Interactive Implementation Workshop in Conjunction with EcoDistricts – *Rooms 618-619***
- 11:45 am – 4:00 pm **Spouse/Guest Tour – Chihuly Garden & Glass and Space Needle – *Meet in Hyatt at Olive 8 Lobby***
- 4:00 pm – 5:30 pm **IDEA Forums and Roundtables: Business Development – *Room 608*; Canadian – *Room 613*; District Cooling – *Room 614*; Operations – *Room 609*; Principal Managers – *Room 620***
Open meetings for IDEA members to discuss current industry issues and trends by specialty area.
Distribution Forum will meet on Tuesday morning.
- 5:30 pm – 7:00 pm **Exhibit Hall Ribbon Cutting – Opening Business Partners Welcome Reception – *Ballroom 6BC***
PechaKucha Open House: Exploring Clean Energy Communities – *Sponsored by Carrier Corporation*
- 7:00 pm **Open evening to explore Seattle – Dinner on your own**

MONDAY, JUNE 9

- 7:00 am – 6:30 pm **Registration Open – *West Lobby***
- 7:00 am – 8:00 am **Breakfast with Business Partner Exhibitors – *Sponsored by Thermo Systems – Ballroom 6BC***
- 7:15 am – 7:45 am **Speaker Orientation Meeting – *Room 620***
- 8:00 am – 8:15 am **Conference Opening – *Ballroom 6A***
Introductions – *Robert Thornton, IDEA President & CEO*
Welcome to IDEA – *Patti Wilson, IDEA Chair*
Welcome to Seattle – *Stan Gent, CEO, Seattle Steam; Conference General Chair*
- 8:15 am – 9:15 am **Moving Community Energy Forward Through Local Leadership + Local Action – *Ballroom 6A***
Invited panelists include: *Bruce Ander, CEO, Markham District Energy; Ahmad Bin Shafar, CEO, Empower; Pär Dalin, CEO, Devcco District Energy Venture; Stan Gent, CEO, Seattle Steam; Wolf-Dietrich Kunze, CEO, Vattenfall Berlin; Ken Smith, CEO, District Energy St. Paul; Jasim Husain Thabet, CEO, Tabreed*
- 9:15 am – 10:30 am **International Perspectives: District Energy Policies, Market Drivers and Lessons Learned – *Ballroom 6A***
Presentations to include:
 - *CHP/District Energy in Cambridge, MA: Useful Heat, Reduced Emissions & Economic Gains – Bill DiCroce, President and Chief Operating Officer, Municipal & Commercial Business, Veolia North America*
 - *Energiewende in Germany: Unintended Consequences for District Energy/CHP – Werner Lutsch, CEO & Managing Director, AGFW*
 - *District Energy in Denmark: Moving Beyond Fossil Fuels – Jan Elleriis, Vice Director, CTR*
 - *Boosting CHP Through State Portfolio Standards in the US – Mark Spurr, Legislative Director, IDEA*
- 10:00 am – 1:00 pm **Spouse Guest Program – Seattle Bites Food Tour – Option #1 – *Departs from Hyatt at Olive 8 Lobby***
- 10:30 am – 11:00 am **Refreshment Break with IDEA Business Partners – *Sponsored by Jacobs – Ballroom 6BC***
- 11:00 am – 11:30 am **Keynote Address – A View from the White House: Clean Energy and Climate Change – *Ballroom 6A***
Heather Zichal, former Deputy Assistant to the President for Energy and Climate Change, Obama Administration
- 11:30 am – 12:15 pm **Envisioning District Energy's Future in the US: Market Evolution, Emerging Trends and the "Art of the Possible" – *Ballroom 6A*** – Invited panelists include: *Tom Casten, Chairman, Recycled Energy Development; Bill DiCroce, President and Chief Operating Officer, Municipal & Commercial Business, Veolia North America; Ken Smith, CEO, District Energy St. Paul; Stan Gent, CEO, Seattle Steam; Mark Spurr, Legislative Director, IDEA; Steve Swinson, CEO, TECO; and Heather Zichal, Obama Administration*
- 12:15 pm – 1:30 pm **IDEA Recognition and Awards Luncheon – *Ballroom 6E***
- 1:30 pm – 2:00 pm **Dessert and Coffee with Business Partner Exhibitors – *Sponsored by EVAPCO, Inc. – Ballroom 6BC***



MONDAY, JUNE 9 cont.

	<p>1A CHP/Microgrids – Rooms 616-617 Moderator: Joseph Sullivan, Concord Engineering</p>	<p>1B District Cooling – Rooms 618-619 Moderator: John Andrepont, The Cool Solutions Company</p>	<p>1C Alternative Fuels – Ballroom 6A Moderator: Robert Smith, RMF Engineering</p>
2:00 pm – 2:30 pm	Ecodistricts of the Future & the Role of Partnerships – <i>Malcolm McLellan & Marlys Palumbo, Van Ness Feldman</i>	Improve System Efficiency and Reduce Construction Costs with Low Temperature District Cooling at McCormick Place Convention Center, Chicago, IL – <i>Mehdi Jalayerian & Daniel Cohen, Environmental System Design</i>	UBC Bioenergy Research Demonstration Facility (BRDF) Green CHP Optimization Opportunity – <i>Paul Holt & Jeffrey Giffin, University of British Columbia</i>
2:30 pm – 3:00 pm	Fort Collins Sustainability Master Plan: Microgrid Aware Concept – <i>Jim Bererton, Integral Group</i>	Resolution of Low Delta T Issues at the Etihad Towers in Abu Dhabi – <i>Eric Moe, University Mechanical Contractors</i>	Reducing Carbon Impact in Singapore Through On-Site Trigeneration and Biofuels – <i>Brian Griffith & Jason Kirkpatrick, Skidmore, Owings and Merrill</i>
3:00 pm – 3:30 pm	Dispatching for Dollars: Host to Economically Dispatch Existing Assets – <i>Kurt Koenig, Burns & McDonnell</i>	Innovative Systems Management of Thousands of Customer Meters – <i>Ramesh Ramadurai, Empower</i>	Case Study - Operating a Gas Turbine on Syngas from Solid Municipal Waste – <i>Ahmet Yontem, OPRA Turbines</i>
3:30 pm – 4:00 pm	Refreshment Break with IDEA Business Partners – Sponsored by Affiliated Engineers, Inc. – Ballroom 6BC		
	<p>2A CHP, Controls, Commissioning & Partnerships – Rooms 616-617 Moderator: Roderick Schwass, Jacobs Engineering</p>	<p>2B District Cooling (cont.) – Rooms 618-619 Moderator: Michael Ruckhaus, University of Alaska Fairbanks</p>	<p>2C Industry Innovation – Ballroom 6A Moderator: Nate Cesarz, Affiliated Engineers</p>
4:00 pm – 4:30 pm	Control System Considerations for Combined Heat and Power Plants – <i>John Beaudry, Jacobs Engineering</i>	Ammonia Refrigeration and Risk Mitigation for District Cooling Applications – <i>Chris Hastings, Vanderweil Engineers</i>	Boiler Fuel Conversions from Oil to Cellulosic Biofuels in District Energy Systems – <i>Lee Torrens, Ensyn Corp</i>
4:30 pm – 5:00 pm	How Can You Ensure Your CHP Commissioning is Effective? Tools & Lessons Learned – <i>Jeff Duncan, Vanderweil Engineers</i>	Efficiency Gains and Emissions Reductions Achieved Through District Cooling – <i>James Kassim, Tabreed</i>	Path to Innovative & Successful Low-carbon DES Solutions – <i>Vladimir Mikler, Integral Group</i>
5:00 pm – 5:30 pm	Deploying Control Strategies to Cut Operating Costs and Reclaim Cooling Capacity at a Pharma Facility – <i>Michael Nyhan, Merck & Co.; Eric Silk, Thermo Systems</i>	An Enormous Emerging Opportunity for District Cooling Developments – <i>John Andrepont, The Cool Solutions Company</i>	Public Private Partnerships: A Successful Option – <i>Bernt Andersson, Termoekonomi AB</i>
5:30 pm – 7:00 pm	Reception with Business Partners in the Exhibit Hall – Sponsored by Trane – Ballroom 6BC		
7:00 pm – 9:30 pm	Delegates Dinner at the Seattle Aquarium – An evening to relax, reconnect, mingle and network Sponsored by Burns & McDonnell – Buses depart from One Convention Place at the Convention Center.		

TUESDAY, JUNE 10

7:00 am - 4:30 pm	Registration Open – West Lobby
7:00 am – 8:00 am	Distribution Forum Meeting – Ballroom 6A
7:00 am – 8:00 am	Breakfast with Business Partner Exhibitors – Sponsored by MAN Diesel & Turbo North America Inc. – Ballroom 6BC
7:15 am – 7:45 am	Speaker Orientation – Room 620



TUESDAY, JUNE 10 cont.

	3A Community Energy Planning – <i>Rooms 616-617</i> Moderator: Patti Wilson, Affiliated Engineers	3B Technology Innovations – <i>Rooms 618-619</i> Moderator: Steve Tredinnick, Burns & McDonnell	3C Frontline Workforce: Distribution, Operations & Training – <i>Ballroom 6A</i> Moderator: Jeff Urlaub, MEP Associates
8:00 am – 8:30 am	Building Partnerships to Move District Energy Forward – <i>Michelle McLarty, Corix; Christie Baumel, City of Seattle</i>	An Emerging Steam Power Production Technology for District Energy Systems: Overview and Case Study – <i>Joshua Tolbert, Practical Steam</i>	Steam Piping Condition Assessments at Princeton University Using Ultrasonic Guided Wave Testing – <i>Roger Royer & Fred DeGroot, Structural Integrity Associates</i>
8:30 am – 9:00 am	The Many Benefits of District Energy Are Underground and Under-Appreciated in the US – <i>Jeff Thompson & John Gaines, The Freehold Group</i>	Combined Heat and Power (CHP) Project at UMass Dartmouth – <i>Mark Haskell, NORESKO</i>	Creating an Effective Plant Operating Plan – <i>John Young & Jim Burnette, NVT Technologies</i>
9:00 am – 9:30 am	District Energy Compatible: Do You Have What It Takes? – <i>Abby Dacho, FVB Energy</i>	Aeroderivative Combustion Gas Turbines and Their Application in Combined Heat and Power Applications – <i>Jack Kelly, Jacobs Engineering</i>	Integrating a Single Learning Platform for District Energy Worker Training – <i>Stan Gent, Seattle Steam; Bob Clarke, PanGlobal Training Systems; Barbara Hins-Turner, Center of Excellence for Clean Energy/Centralia College</i>
9:30 am – 10:00 am	Integration of District Energy in Planned Mixed Use, High Density Urban Development – <i>Henry Johnstone, GLHN Architects & Engineers</i>	Techno-Economic Feasibility of Biomass Fueled District Heating Systems in Belgium – <i>Ouafik El Kasmoui, University of Antwerp</i>	AGFW Codes of Practice: Business Insurance for German/EU District Heating Companies – <i>Wolf-Dietrich Kunze, Vattenfall</i>
10:00 am – 10:30 am	Refreshment Break with IDEA Business Partners – <i>Sponsored by ICETEC – Ballroom 6BC</i>		
10:00 am – 1:00 pm	Spouse Guest Tour – Seattle Bites Food Tour – <i>Departs from Hyatt at Olive 8 Lobby</i>		
	4A From Plans to Implementation – <i>Rooms 616-617</i> Moderator: Jeff Duncan, R.G. Vanderweil Engineers	4B Utilities Master Planning – <i>Rooms 618-619</i> Moderator: Lynn Crawford, Affiliated Engineers	4C Frontline Workforce: Operations & Customer Service – <i>Ballroom 6A</i> Moderator: Scott Clark, Burns & McDonnell
10:30 am – 11:00 am	Not (Shovel) Ready for Prime Time? – <i>Pete Sullivan, City of Redmond; Paul Wetherbee, Puget Sound Energy</i>	Sacramento Municipal Utility District (SMUD) East Campus Operations Center – <i>Jim Bererton, Integral Group</i>	Integrating Human Performance Initiatives as Part of a Consolidated Edison Company of New York Power Plant Upgrade – <i>John Cambigianis, Con Edison</i>
11:00 am – 11:30 am	Case Studies in West Coast Community Energy: Stanford University, UCDCS and the University of Washington – <i>Nate Cesarz & Bruce McLay, Affiliated Engineers</i>	Orange County CA District Energy System Master Plan and Renewal – <i>Kevin Fox, Jacobs Engineering</i>	Con Edison System Hardening Post Sandy – <i>Christina Ho & Evan Yager, Con Edison</i>
11:30 am – 12:00 pm	Speed to Market: Fast Track Project Implementation – <i>Blake Ellis, Burns & McDonnell</i>	Innovative Master Planning in the Fast Lane – <i>Thomas Lund-Hansen, Reliability Efficiency & Optimization; Juan Ontiveros, UT Austin</i>	Improving Data Access for Benchmarking – <i>Jayson Antonoff, Institute for Market Transformation; Stan Gent, Seattle Steam; Nicole Ballinger, Office of Sustainability & Environment</i>
12:00 pm – 2:00 pm	IDEA Annual Business Meeting and Recognition Luncheon – <i>Ballroom 6E</i>		
2:00 pm – 2:45 pm	Dessert and Coffee Networking Break with IDEA Business Partners—Prizes and Raffles Awarded <i>Sponsored by Solar Turbines – Ballroom 6BC</i>		
2:45 pm – 5:00 pm	Exhibit Hall Tear Down		



TUESDAY, JUNE 10 cont.

	5A Climate, Water & Policy Drivers – Rooms 616-617 Moderator: Tim Griffin, RMF Engineering	5B Utilities Master Planning (cont.) – Rooms 618-619 Moderator: Jack Kelly, Jacobs Engineering	5C Frontline Workforce: Business Development, Customer Interface & Service – Ballroom 6A Moderator: Ray DuBose, Retired, UNC Chapel Hill
2:45 pm – 3:15 pm	Climate Assessments: Context for Understanding and Planning for a Climate-Changed Future – T.C. Richmond, Van Ness Feldman	Sapperton District Energy System: A Unique Opportunity – Mike Homenuke, Kerr Wood Leidal Associates; Norm Connolly, City of Westminster	Enabling Success and Strengthening Our DES Community – Grant Biermeier, Fortis BC
3:15 pm – 3:45 pm	EPA Guide on How Local Governments Can Consider CHP As Part of a Greenhouse Gas Reduction Program – Neeharika Naik-Dhungel, US EPA CHP Partnership Program	Updates at the Los Angeles International Airport – Steve Tredinnick, Burns & McDonnell	Delivering Customer Service Beyond the Meter – Pat Davin, Veolia Energy North America
3:45 pm – 4:15 pm	LEED Certification With A Focus on CHP – Susan Wickwire, US EPA CHP Partnership Program	How to Use CHP to Reduce Your Carbon Footprint in a Low Carbon Utility – Bryce MacMartin, Vanderweil Engineers	Case Study: Assessing Energy vs First Costs, Aligning Benefits and Advancing Common Sense with Private Developers – Jim Riley, Texas A&M
4:15 pm – 4:30 pm	Refreshment Break		
	6A Climate, Water & Policy Drivers (cont.) – Rooms 616-617 Moderator: Kevin Fox, Jacobs Engineering	6B Utilities Master Planning (cont.) – Rooms 618-619 Moderator: Blake Ellis, Burns & McDonnell	6C Frontline Workforce: Business Development, Customer Interface & Service (cont.) – Ballroom 6A Moderator: Mark Spurr, FVB Energy
4:30 pm – 5:00 pm	Navigating the Clean Air Act – Robynn Andracssek, Burns & McDonnell	University of Arizona Enterprise Energy Management System – Justin Thomas, InStep Software	Update on State of MN Findings on Condensing Boiler Efficiency Assessment – Ken Smith, District Energy St. Paul
5:00 – 5:30 pm	Cost Savings, Reliability and Readiness via Campus-Wide Wastewater Reclamation Strategies – Jonathan Lanciani, Sustainable Water	Novel Terpolymer Internal Boiler Chemistry Drives Efficiency & Reliability in Commercial Industrial Steam Generating Systems – Karen Person, GE Water & Process Technologies	Business Development Forum Discussion – Competing with On-Site Options: Value Proposition, NPV Cases and Research on Real World Boiler Efficiency – Stephen Kutska, Xcel Energy; Steve Tredinnick, Burns & McDonnell; Jon Wohl, DCO Energy LLC
6:00 pm – 6:30 pm	Chair's Cocktail Reception (Business Attire) – Hyatt at Olive 8 Ballroom Foyer		
6:30 pm – 10:00 pm	Annual Chair's Recognition and Awards Banquet (Business Attire) – Sponsored by Seattle Steam Hyatt at Olive 8 Ballroom		

WEDNESDAY, JUNE 11

7:00 am – 8:15 am	Breakfast with Pre-Tour Overview Presentation – Hyatt at Olive 8 Ballroom ABC
8:15 am – 10:00 am	Technical Tour A: Seattle Steam Biomass Facility – All tours depart from the Hyatt at Olive 8 Lobby
8:15 am – 12:30 pm	Technical Tour B: University of Washington and Seattle Steam Biomass Facility
9:00 am – 1:00 pm	Woody Biomass CHP & District Energy Workshop – Curated by US DOE Northwest, CHP Technical Assistance Program – Hyatt at Olive 8 Ballroom D
	Box lunch will be served before tour.
1:00 pm – 3:00 pm	Technical Tour – Seattle Steam Biomass Facility (in conjunction with Biomass Workshop)

