IDEA’s 27th Annual
Campus Energy Conference

Clean, Efficient & Resilient Energy

February 18 - 21, 2014 • Atlanta Marriott Marquis • Atlanta, Ga.
Including Pre-Conference Workshops on Monday, Feb 17 and Tuesday, Feb 18
CONTROL SYSTEMS EXPERTS
DESIGN ♦ CONSTRUCTION ♦ OPTIMIZATION

DESIGN
- Site-Wide Control Systems Master Planning
- I&C Engineering Services

CONSTRUCTION
- Turn-Key Control Systems Construction
- Complete Systems Integration
- Legacy Systems Migration

SERVICE
- 24/7 On-Site Support
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OPTIMIZATION
- Investment Grade Energy Audits
- Transparent Energy Reduction Algorithms
- Utilize Existing Plant PLCs
- No Monthly Fees ♦ No Black Box

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27th Annual Campus Energy Conference Technical Program

Clean, Efficient & Resilient Energy

Monday, February 17, 2014

11:00 am – 6:30 pm  Registration Open – Atrium Foyer
1:00 pm – 5:00 pm  Distribution Workshop 1 – Thermal Network Engineering, Deployment and Optimization for Campuses Rooms A706-A707
5:00 pm – 6:30 pm  Reception for Workshop Participants (Registrants from all three workshops are invited) – Pulse Loft

Tuesday, February 18, 2014

7:00 am – 6:30 pm  Registration Open – Atrium Foyer
7:00 am – 8:00 am  Continental Breakfast (for workshop attendees) – Rooms A601-A602
8:00 am – 5:00 pm  Distribution Workshop (cont’d) – Thermal Network Engineering, Deployment and Optimization for Campuses Rooms A706-A707
8:00 am – 5:00 pm  Workshop 2: Community Energy Systems, Microgrids and Sustainability – Planning, Strategy & Tools Rooms A703-A704
8:00 am – 5:00 pm  Workshop 3: Enterprise Utilities Asset Management & Condition Assessment – Strategic Planning – Room A705
12:00 pm – 1:00 pm  Luncheon (for all workshop participants) – Rooms A601-A602
12:00 pm – 4:00 pm  Exhibitor Table Set Up – Atrium Ballroom BC
5:00 pm – 6:30 pm  Campus Energy Conference Welcome Reception with IDEA Business Partner Exhibitors – Open to all workshop and conference attendees – Sponsored by Solar Turbines – Atrium Ballroom BC

Wednesday, February 19, 2014

7:00 am – 6:30 pm  Registration Open – Atrium Foyer
7:00 am – 8:00 am  Continental Breakfast with Business Partner Exhibitors – Sponsored by Thermo Systems – Atrium Ballroom BC
7:15 am – 7:45 am  Speaker Orientation Meeting – Room A708
8:15 am – 8:30 am  Introductions – Robert Thornton, IDEA President & CEO – Atrium A
8:30 am – 10:00 am  Opening Plenary Panel Discussion – Clean, Efficient & Resilient Energy – Atrium A
10:00 am – 10:45 am  Refreshment Break with Business Partner Exhibitors – Sponsored by ICETEC – Atrium Ballroom BC
10:45 am – 12:15 pm  Community Energy Resiliency through Microgrids: A Multi-Part Program – Atrium A
• Microgrids – Cutting Through the Buzz – Panel Discussion with the following invited participants: Jim Adams, Cornell University; Chris Berendt, Drinker, Biddle & Reath; David Musto, Thermo Systems; Tom Nyquist, Princeton University; Juan Ontiveros, UT Austin; Aurel Selezeanu, Duke University; Joe Sullivan, Concord Engineering; Mike Webster, ICETEC
• Announcing the Microgrid Resources Coalition – Presenting An Industry Initiative Tom Nyquist & Ted Borre, Princeton University; Christopher Berendt & C. Baird Brown, Drinker, Biddle & Reath; Mike Webster & John Webster, ICETEC; Joseph Sullivan, Concord Engineering; Steven Corneli, NRG Energy
• Meet Up With Microgrid Experts – 1:1 Roundtable Discussion At Conclusion of Conference – (Session 7C Thursday)
12:15 pm – 1:15 pm  IDEA Annual Campus Energy Networking Luncheon (with Topic Tables) – Sponsored by Jacobs – Skyline Level 10th Floor
1:15 pm – 2:00 pm  Dessert & Coffee with IDEA Business Partners – Sponsored by RMF Engineering, Inc. & Caldwell Tanks Atrium Ballroom BC
From Start to Startup

At Burns & McDonnell, our OnSite Energy & Power group provides leadership from concept to completion through our turnkey design-build delivery — focusing on your project's capacity, resiliency, efficiency and environmental impact. We offer responsible and integrated solutions that fit your exacting needs.

From start to startup, our path leads to a single point: your success.

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Utility Master Plans
Central Utility Plants
Combined Heat & Power Plants
Sustainability Planning & Analysis
Energy Management & Controls
Energy Efficiency & Optimization
Emissions Reduction Strategies
Electrical Transmission & Distribution
Design-Build
Construction Management
Commissioning

Come visit us at Table #5 at IDEA's 27th Annual Campus Energy Conference.

Look for Burns & McDonnell professionals presenting on Wednesday, Feb. 19.

For more information, contact:  
Scott Clark  
National Practice Leader  
OnSite Energy & Power  
817-840-1233  
spclark@burnsmcd.com

www.burnsmcd.com/onsite

Parkland Health & Hospital System  
Central Utility Plant  
Dallas, Texas  
2014 ACEC Texas Engineering Excellence Gold Medal Winner
## Wednesday, February 19, 2014 – cont’d

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Moderator/Participants</th>
<th>Room(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00 pm</td>
<td><strong>1A: Master Planning, System Expansion &amp; Infrastructure Renewal</strong></td>
<td><em>Moderator: Lynn Crawford, Affiliated Engineers</em></td>
<td><em>Rooms A703-A704</em></td>
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<tr>
<td></td>
<td>The Ohio State Infrastructure Master Plan – Cole Luke &amp; Jon Schwartz, Burns &amp; McDonnell</td>
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<tr>
<td>2:30 pm</td>
<td><strong>1B: Combined Heat &amp; Power</strong></td>
<td>Implementation of CHP at the University of Minnesota – Steve DiNobile, University of Minnesota; Chris Farr &amp; Kent McAnally, Jacobs Engineering</td>
<td><em>Rooms A706-A707</em></td>
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<td>Microgrid for University of Iowa Medical Research Facility – Michael Dempsey, Burns &amp; McDonnell</td>
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<tr>
<td>3:00 pm</td>
<td><strong>2A: Innovative Project Finance</strong></td>
<td>UMass Medical School Increases Efficiency with Incremental Expansion of Central Energy Plant – Joe Collins, UMass Medical School; Darrell Sandlin, Nexant</td>
<td><em>Rooms A703-A704</em></td>
</tr>
<tr>
<td></td>
<td>Microgrids: CUNY Resilience and Refugee Strategy – Darek Letkiewicz, O’Brien &amp; Gere; Darren Hammell, Princeton Power</td>
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<tr>
<td>3:30 pm</td>
<td><strong>2B: Sustainable Cooling</strong></td>
<td>Planning, Design &amp; Operation for Resiliency at Acute Care Hospital, Dallas Fort Worth – Jeff Easton, Burns &amp; McDonnell</td>
<td><em>Rooms A706-A707</em></td>
</tr>
<tr>
<td>4:00 pm</td>
<td><strong>2C: Heating Systems &amp; Central Plant Renewal</strong></td>
<td>University of Iowa, Boiler No. 10: Natural Gas Burner Installation – Ben Anderson, University of Iowa; Russ Price &amp; Kevin Voss, PRVN</td>
<td><em>Rooms A601-A602</em></td>
</tr>
<tr>
<td>4:30 pm</td>
<td><strong>3:00 pm – 4:00 pm Refreshment Break with Business Partner Exhibitors – Sponsored by Affiliated Engineers – Atrium Ballroom BC</strong></td>
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<tr>
<td>5:00 pm</td>
<td><strong>4:00 pm – 4:30 pm Creative Financing for Successful Energy Projects – Ed Kirk, Johns Hopkins University</strong></td>
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<tr>
<td>5:30 pm</td>
<td><strong>5:00 pm – 5:30 pm Financing &amp; Improving Plant Efficiencies at the University of Utah via Building and Distribution Improvements – Kelly Gibbons, University of Utah; Tim Burkharter, Burns &amp; McDonnell</strong></td>
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<td><strong>5:30 pm – 7:00 pm Reception with IDEA Business Partners – Atrium Ballroom BC</strong></td>
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<tr>
<td>7:00 pm</td>
<td><strong>7:00 pm – 9:30 pm Dinner at World of Coca-Cola – Sponsored by Burns &amp; McDonnell</strong></td>
<td><em>Buses will depart from the Courtland St. Entrance on the International Level</em></td>
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</table>

### Raffles in the Exhibit Hall

Be sure to attend the receptions in the exhibit hall to be eligible for great raffle prizes including: Bose Soundlink Speakers; Bose Noise-cancelling headphones; Apple Ipad Mini and Apple Ipad2, Kindle Fire HD, among other items.

**Please note — you must be present to win!**
Thursday, February 20, 2014

7:00 am – 4:00 pm  Registration Open – Atrium Foyer

7:00 am – 8:00 am  Continental Breakfast with Business Partner Exhibitors – Sponsored by Parsons Brinckerhoff & Van Ness Feldman
Atrium Ballroom BC

7:00 am – 8:00 am  Canada Forum – Room A705

7:15 am – 7:45 am  Speaker Orientation Meeting – All presenters and moderators for the day are asked to attend – Room A708

8:00 am – 8:30 am  Energy Efficiency vs. Risk Mitigation: Converting a Pharma Campus from Individual Building to District Cooling – Linda Hamdan, Vanderweil Engineers; Michael Morehead

8:30 am – 9:00 am  Business as Unusual: Howard University Hospital’s Quest to Exit the Chilled Water Business – Dave Robinson, Honeywell

9:00 am – 9:30 am  Training and Development for O&M Staff at The University of Oklahoma CHP Facility – Jack Kelly, Jacobs Engineering

9:30 am – 10:00 am  Thermal Distribution in District Energy and Cogeneration Systems: The Case for Hot Water – Bill Liegois, Stanley Consultants

10:00 am – 10:30 am  Efficient Modulation of Engine CHP Steam and Electric Output with a Regenerative VFD – Robert Benz, Benz Air Engineering

10:30 am – 11:00 am  Refreshment Break with Business Partner Exhibitors – Sponsored by Kiltech Inc. – Atrium Ballroom BC

Visit the cyber café to learn how to use the wireless internet offered in the exhibit hall. You can also use a computer or print a boarding pass.

Sponsored by Johnson Controls
<table>
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<th>Time</th>
<th>Session</th>
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<th>Location</th>
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<tbody>
<tr>
<td>11:00 am – 11:30 am</td>
<td>5A: Heating Systems &amp; Central Plant Renewal (cont’d)</td>
<td>Low Temperature Heating Distribution Systems – David Wade, RDA Engineering</td>
<td>A703-A704</td>
</tr>
<tr>
<td>11:30 am – 12:00 pm</td>
<td>5B: Free Cooling &amp; Thermal Energy Storage</td>
<td>Free Cooling at the University of North Carolina, Chapel Hill – Doug Mullen, University of North Carolina, Chapel Hill; Nate Cesarz, Affiliated Engineers</td>
<td>A706-A707</td>
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<td></td>
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<td>Data Monitoring &amp; Visualization at City College in New York – Neil Webb &amp; Chris Marinucci, O’Brien &amp; Gere</td>
<td>A601-A602</td>
</tr>
<tr>
<td>12:00 pm – 12:30 pm</td>
<td>5C: Regulations and LEED &amp; District Energy</td>
<td>ASME RAM-1: Maintainability of Equipment and Systems in Power Plants for Mission Critical Application at the University of Iowa – Ben Anderson, University of Iowa; Brian Wodka, RMF Engineering</td>
<td>A706-A707</td>
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<td>Lessons Learned from 35 Years of Thermal Energy Storage Projects – John Andrepont, The Cool Solutions Company</td>
<td>A706-A707</td>
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<td></td>
<td>Auburn University Basketball Arena: How Building Data Analytics Achieved Energy and O&amp;M Savings While Improving Comfort and Sustainability – Eric Moore, Auburn University; Hadas Webb, Cimetrics</td>
<td>A601-A602</td>
</tr>
<tr>
<td>12:30 pm – 2:00 pm</td>
<td>IDEA Annual Campus Energy Delegates Luncheon – Sponsored by Trane</td>
<td>A Backup Boiler Capable of Ramping from 4 to 240klb/hour in 360 Seconds – Robert Benz, Benz Air Engineering</td>
<td>Atrium A</td>
</tr>
<tr>
<td>2:00 pm – 2:30 pm</td>
<td>Dessert &amp; Coffee with Business Partner Exhibitors – Sponsored by Carrier &amp; Chem-Aqua</td>
<td>Results of In-Depth Feasibility Studies of Aquifer Thermal Energy Storage at Two VA Medical Center Facilities in Ohio – Mark Worthington, Underground Energy</td>
<td>Atrium Ballroom BC</td>
</tr>
<tr>
<td>2:30 pm – 3:00 pm</td>
<td>6A: Risk Based Approaches to Thermal Distribution System Performance</td>
<td>Inspection of Distribution Piping Systems: A Risk Based Approach – Joe Maciejczyk, Structural Integrity Associates</td>
<td>A703-A704</td>
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<td></td>
<td>Moderator: Steve Tredinnick, Burns &amp; McDonnell</td>
<td>Bay Water or Grey Water District Cooling Heat Rejection – Scott Henriques, CDM Smith</td>
<td>A706-A707</td>
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<tr>
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<td>Rooms A703-A704</td>
<td>Climate Change Regulation and the Next Generation of Refrigerants – Mike Thompson, Trane</td>
<td>A601-A602</td>
</tr>
<tr>
<td>3:00 pm – 3:30 pm</td>
<td>6B: Thermal System Innovations</td>
<td>Understanding FM Global’s New Approval Standard for Cooling Towers – Steve Benz, Evapco; Don Dobney, EvapTech</td>
<td>A703-A704</td>
</tr>
<tr>
<td>3:30 pm – 4:00 pm</td>
<td>6C: Metering, Monitoring, Analytics &amp; Visualization</td>
<td>Understanding Our Water Footprint to Reduce Campus Risks – Ed Kirk, Johns Hopkins University; Jonathan Lanciani, Sustainable Water</td>
<td>A703-A704</td>
</tr>
<tr>
<td></td>
<td>Moderator: Lucas Hyman, Goss Engineering</td>
<td>3 Keys to Perfect Hydronics: Increased Chiller COP at Asia Towers, Singapore – Hooman Daneshmand, TA Hydronics</td>
<td>A706-A707</td>
</tr>
</tbody>
</table>

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**CEUs available for attending this conference.**

Stop by the Registration Desk for details and to complete the CEU registration form. Attendees are eligible for up to 3.0 CEUs for attending one workshop, the full conference and technical tour pending final review and approval from University of Iowa.

Additional Fee: $10 per person
**Thursday, February 20, 2014 – cont’d**

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>4:00 pm – 4:30 pm</td>
<td>Drought Mitigation: Replacing Potable Water For Cooling With Reclaimed Water – Douglas Mullen, UNC Chapel Hill; Maurice Galey, NALCO</td>
</tr>
<tr>
<td>4:30 pm – 5:00 pm</td>
<td>Design Opportunities and Business Case for Water Efficient Building Design: University of Minnesota – Scott McCord, University of Minnesota; Willa Kuh &amp; Laura Halverson, Affiliated Engineers</td>
</tr>
<tr>
<td>5:00 pm – 5:30 pm</td>
<td>Blue is the New Green: De-risking Water Operations Sustainably at Georgia Campuses – Jonathan Lanciani, Sustainable Water</td>
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</tbody>
</table>

### Session 7A: Water Use Efficiency, Treatment & Innovation
**Moderator:** Juan Ontiveros, University of Texas, Austin  
**Rooms A703-A704**

### Session 7B: CHP/District Energy Resources for Financing and Feasibility
**Moderator:** Mark Spurr, FVB Energy  
**Rooms A706-A707**

### Session 7C: Meet Up With Microgrid Experts 1:1 Roundtable Discussions
**Atrium A**

**Microgrid Experts will lead and facilitate in-depth discussion on a particular topic in a round-table format with 8-10 attendees at each table. Several topic tables will allow attendees to rotate for deeper discussion and discovery.**

Preliminary topics and invited experts include:
- System Controls and SCADA – David Musto, Thermo Systems; Aurel Selezeanu, Duke Univ.
- Efficiency & CHP – Juan Ontiveros, UT Austin; Robert Manning, Harvard University
- Getting Micro-Grid Ready – Leia Giaccione, RMI; Jeff Duncan, Vanderweil; C. Baird Brown, Drinker, Biddle & Reath
- Real World Operations – Tom Nyquist, Princeton University; Mike Webster, ICETEC
- Leveraging Microgrid Assets and Capturing Market Value – Chris Berendt, Drinker, Biddle & Reath; Steve Corneli, NRG Energy
- Navigating Regulations – Joe Sullivan, Concord Engineering; John Webster, ICETEC

**Friday, February 21, 2014**

<table>
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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 am – 9:00 am</td>
<td>Breakfast and Tour Briefing – A brief overview presentation preceding the technical tour visits – Rooms A601-A602</td>
</tr>
</tbody>
</table>
| 9:00 am – 1:00 pm | Technical Tours – Georgia Institute of Technology and Emory University  
**Buses will depart from the Courtland St. Entrance on the International Level** |
| 1:00 pm       | Expected Return to Hotel – Bus A will go to the airport at the conclusion of the tour |
Georgia Tech
The Georgia Institute of Technology is known for its commitment to addressing global challenges in sustainable energy, disease diagnosis and treatment, national defense and security, and other areas. More than 21,000 students are enrolled in its undergraduate and graduate programs offered through the institute’s six colleges: Architecture, Computing, Engineering, Sciences, the Scheller College of Business and the Ivan Allen College of Liberal Arts.

Georgia Tech has a long history with district energy. The Holland steam plant started steam production in 1917 with four Babcock & Wilcox coal-fired boilers. Today the plant provides steam to 4.8 million sq ft of space using three natural gas-fired boilers that can run on propane as a backup fuel. The plant also has a 34 MW, 110,000 lb/hr electric boiler. The newer chilled-water system currently serves 61 buildings on campus.

Emory University
Located in Atlanta’s historic Druid Hills neighborhood, Emory University is recognized internationally for its liberal arts colleges, graduate and professional schools, and leading healthcare systems. The institution traces its heritage to Emory College, founded by the Methodist Episcopal Church in 1836. A generous grant from Asa Candler, founder of the Coca-Cola Company, provided land and seed money to build the Druid Hills campus in 1915. Today, more than 14,000 students are enrolled.

Emory’s central steam and chilled-water systems serve most of the major buildings, and the school has made a significant commitment to energy conservation and sustainability. More than 20 buildings have achieved LEED Gold or Silver certification, and a new water reclamation system will soon allow the university to reclaim and treat water directly from the sanitary sewer for use in its cooling towers.
Enter for a chance to win!

46” Samsung LED Wi-Fi Web Browser Smart TV

Tickets are $10 each or 3 tickets for $20.
Raffle tickets available at the registration desk and exhibit hall.

Drawing will take place in the exhibit hall
on Thursday, February 20 at 2:15 pm.

YOU MUST BE PRESENT TO WIN.
TV will be shipped to the destination of your choice.

All proceeds benefit the John Gray Scholarship Program.
Exhibit Hall Schedule

Tuesday, February 18, 2014
12:00 pm-4:00 pm  Exhibitor Set-up
5:00 pm-6:30 pm  Reception in Exhibit Hall

Wednesday, February 19, 2014
7:00 am-8:00 am  Continental Breakfast in Exhibit Hall
10:00 am-10:45 am  Break in Exhibit Hall
1:15 pm-2:00 pm  Dessert Break in Exhibit Hall
3:30 pm - 4:00 pm  Break in Exhibit Hall
5:30 pm - 7:00 pm  Reception in Exhibit Hall
7:00 pm – 9:30 pm  Dinner at The World of Coca Cola

Thursday, February 20, 2014
7:00 am-8:00 am  Continental Breakfast in Exhibit Hall
10:30 am-11:00 am  Break in Exhibit Hall
2:00 pm – 2:30 pm  Dessert in Exhibit Hall
2:30 pm - 6:00 pm  Exhibit Tear down
5:30 pm – 6:30 pm  Business Partners Forum Meeting
Achieving excellence for your unique system

Your facility has unique system needs. Johnson Controls provides the equipment configuration solution that will fit your needs. Perfectly.

www.johnsoncontrols.com
Adams Valves, Inc .......................... Table 13
12303 Cutfen Rd
Houston, TX 77066
(281) 453-3750; (281) 453-3749 fax
sales@adamsvalves-usa.com;
www.adamsvalves-usa.com

Kyle Bordelon; Regional Sales Manager
Adams Valves is a leading manufacturer of valves, and the inventors of the triple offset valves. Adams Valves is committed to delivering superior German quality to cover a complete spectrum of rotary, isolation, control and check valve applications from the simplest to the most advanced to meet your specific needs.

Alfa Laval .............................. Table 58
5400 International Trade Drive
Richmond, VA 23231
(866) 253-2528
customerservice.usa@alfalaval.com;
www.alfalaval.us
Scot Seifert; Director, HVAC and Industrial Equipment
Alfa Laval is a leading global provider of specialized products and engineered solutions. Alfa Laval plate heat exchangers and heat exchanger systems have become key components of district heating and cooling networks throughout the world. They take on the challenge of achieving an ideal temperature while holding down energy consumption in consideration of the environment.

Alstrom Energy Group ........................ Table 36
1408 Seabury Avenue
Bronx, NY 10461
(718) 824-4901; (718) 409-3605 fax
dpower@alstromcorpor.com;
www.Alstromcorpor.com
Declan Power; President
Alstrom Energy Group is a manufacturer of high efficiency heat transfer products and accessories including heat exchangers, instantaneous hot water heaters, deaerators, pump skids, heat recovery systems and economizers. We specialize in energy savings and quick return on your investment. Think of Alstrom when selecting your heating, domestic hot water and cogeneration systems.

APTech Group, Inc. ........................ Table 90
11411 Williamson Road
Cincinnati, OH 45241
(513) 761-8111; (513) 761-6856 fax
marc.beller@aptechsolids.com;
www.endurosolv.com
www.hydro-watertreatment.com
Marc Beller; VP Sales and Marketing
EnduroSolv solid water treatment from APTech Group combined with Hydro System’s Triton Controller provide protection for your cooling towers and boilers in a safer, more sustainable way. Our full line of solid water treatment is cheaper to ship and easier to handle while providing all the corrosion and scale protection your facility needs.

Aquatherm ............................. Table 69
500 S 500 W Blvd, 1
Lindon, UT 84042
(801) 805-6657
charles.clark@aquathermpipe.com
www.aquathermpipe.com
Charles Clark; Inside Sales Manager
Aquatherm is an internationally acclaimed manufacturer of polypropylene pipe systems for potable water, hydronic heating and cooling, industrial, and rainwater applications and are designed to last for over 50 years. The polypropylene material used in the pipe and fittings is welded via heat fusion, which results in permanent, leak-proof connections.

ATCO Emissions Management ........................ Table 44
3300 Fernbrook Lane N. Suite 190
Plymouth, MN 55447 USA
(763) 432-6516; (763) 208-8037 fax
dan.robertus@atcoem.com; www.atcoem.com
Don Robertus; Director, Sales
An OEM approved leader in custom engineered gas turbine systems including HRSGs, WHRBs, intake filtration and silencing, exhaust stacks and silencer systems, CO and NOx emission treatment catalyst systems, bypass diverter damper systems, acoustical enclosures and barriers. Available for either new or retrofit applications with supply only or turn-key scope.

Auburn Manufacturing, Inc ........................ Table 57
34 Walker Road
Mechanic Falls, Maine 04256
(800) 264-6689; (207) 345-3280 fax
sales@auburnmfg.com;
www.cutnwrap.com
Matt Lampron; Business Development Manager
Auburn Manufacturing Inc., a U.S. based, vertically integrated Manufacturer has been serving the mechanical insulation industry with a wide array of safe, heat-resistant textiles introduces Ever Green Cut ‘n Wrap Insulation Kits as the quickest, easiest way to keep energy costs down by covering bare components. Just Cut, Wrap, and Strap.

Baltimore Aircfoil Company ........................ Table 35
7600 Dorsey Run Road
Jessup, MD 20794
(410) 799-6476; (410) 799-6405 fax
ghenderson@BaltimoreAircfoil.com
www.BaltimoreAircfoil.com
Gregory Henderson; Customer and Industry Relations Manager
Baltimore Aircfoil Company is the world’s largest and leading supplier of evaporative heat transfer and thermal energy management equipment. We are the market leader in differentiated, high quality products and services, providing advanced heat transfer technology that is market focused, energy efficient, and has the lowest environmental impact in the industry.

Benz Air Engineering Co., Inc. ........................ Table 50
4061 Silvestri Lane, Blvd. 103
Las Vegas, NV 89120
(702) 597-4805; (702) 597-4823 fax
patricia@benzair.com; www.benzair.com
Patricia Benz; Vice President
Benz Air Engineering has engineered the first ever reciprocating engine-based CHP unit that provides heat in the form of steam! Producing 200/1000 kW of electricity and 1,200 lb/hr of low pressure steam it is seamlessly integrated into any steam facility, saving thousands in the cost of electricity, while providing over a 100lbs of carbon offsets.

Burns & McDonnell ............................. Table 5
9400 Ward Parkway
Kansas City, MO 64114
(816) 840-1233; (817) 377-0394 fax
spclark@burnsmcd.com; www.burnsinst.com
Scott P. Clark; Principal, OnSite Energy & Power Group
The Burns & McDonnell OnSite Energy & Power Group’s extensive experience includes planning, design, construction and commissioning of large campus utility systems at universities, medical centers, airports and other campuses. Services include utility master planning, boiler MACT, central utility plant optimization, CHP, renewable, thermal storage, electrical distribution and grant applications.

Caldwell .............................. Table 29
4000 Tower Rd
Louisville, KY 40219
(502) 964-3361 x 2122; (502) 810-0983 fax
jkraft@caldwelltanks.com
www.caldwelltanks.com
John E. Kraft, P.E.; Vice President – Energy & Industrial
Caldwell’s turnkey design-build capabilities provide engineering, fabrication, construction and turnover for new chilled water systems or expansions utilizing Thermal Energy Storage Tanks for district cooling, buildings, campus energy, data centers and mission critical facilities. Caldwell is uniquely positioned to provide both Welded Steel and Prestressed TES tanks to our customers.

Carrier Corporation .......................... Table 34
9701 Old Statesville road
Charlotte, NC 28269
(704) 494-2528 or (704) 913-4292
(860) 353-1411 fax
breni.signon@carrier.utc.com; www.carrier.com
Brent Signon; Sales Manager
Carrier Corp., headquartered in Farmington, Conn., is the world’s largest provider of heating, air-conditioning and refrigeration solutions, with operations in more than 170 countries. Carrier’s expertise extends to high performance district cooling equipment, energy generation among other sustainable solutions. Visit www.carrier.com for more information.

CB&I .............................. Table 78
2301 Research Forest Drive
The Woodlands, TX 77380
(815) 439-6390; (815) 439-6001 fax
jhusted@cbi.com; www.cbi.com
Joseph Husted; Business Development Manager
CB&I’s Strata-Therm* Chilled Water Storage provides economical and efficient load management employing ruggeduffers with all-welded steel piping for maximum reliability, low pressure drop and high discharge rates, and is backed by CB&I’s 3,000,000+ ton-hours of experience. CB&I’s So-CoolSM Low Temperature Stratification Fluid provides stratified thermal storage colder than ice.

Chem-Aqua, Inc. .......................... Table 8
2727 Chessire Blvd.
Irving, TX 75062
(800) 527-9919 or (972) 438-0232
(972) 438-0801 fax
casales@nch.com; www.chemaqua.com
Patrick Guccione; Vice President Business Development
A major supplier to universities, Chem-Aqua is a full-service water treatment company specializing in cost-effective, efficient, custom-designed programs. For over 90 years Chem-Aqua has provided programs that solve water treatment problems and make boiler, cooling and process water systems more efficient.
ChemTreat, Inc. .......................... Table 1
5640 Cox Road
Glen Allen, VA 23060
(800) 442-8292; (800) 648-4577 fax
fred@chemtreat.com; www.chemtreat.com
Fred Klemencic; Senior Corporate Sales Manager
ChemTreat, a division of Danaher, is one of the world’s largest providers of water treatment products & services. Customers benefit from ChemTreat programs with improved operating efficiencies, controlled maintenance costs, and reduced energy & water consumption. ChemTreat customers throughout the world save millions of gallons everyday as a result of properly engineered water management technologies.

Cleaver-Brooks, Inc. .............. Table 28
6940 Cornhusker Highway
Lincoln, NE 68507
(402) 434-2000; (402) 434-2064 fax
ebsales@cleaverbrooks.com; cleaverbrooks.com
Jason Jacobi; Sales Manager
Cleaver-Brooks fully integrated systems, including boilers, burners, controls, and auxiliary equipment, supply the most efficient solutions in the world. Only Cleaver-Brooks boiler systems have the power of total integration for your entire boiler room, built in from the ground up.

Composite Cooling Solutions, L.P. . Table 46
PO Box 4150 International Plaza; Suite 500
Fort Worth, Texas 76109
(817) 708-9140; (817) 246-8717 fax
info@compositecooling.com
www.compositecooling.com
Stephen Teate; Regional Sales Manager
Composite Cooling Solutions (CCS) is a global leader in the design, engineering, and construction of field-erected pultruded composite cooling towers. FM Approved designs provide fire protection without costly sprinkler systems. CCS provides repairs, upgrades, and replacement components for all types of cooling towers.

ConDex Energy .................. Table 24
25 Royal Crest Court, Suite 110
Markham, Ontario L3R 9X4 Canada
(905) 415-9400; (905) 415-9482 fax
info@condexenergy.com; www.condexenergy.com
Steve Banz; U.S. Sales Director
Combustion & Energy Systems is the designer and manufacturer of the ConDex Energy Recovery System line of equipment. Specializing not only in equipment design and fabrication, Combustion & Energy works individually with clients to identify heat losses, quantify the energy available for recovery, and specify the best uses for recovered energy to maximize energy efficiency, and profit from emissions reductions.

ConEdison Solutions ............. Table 52
100 Summit Lake Drive
Valhalla, NY 10595
(914) 286-7753; (914) 448-0057 fax
lesch@conedsolutions.com
www.conedsolutions.com
Bob Lesch; Manager – Business Development
ConEdison Solutions is a leading energy services company that provides competitive power supply, renewable energy, sustainability services, and cost-effective energy solutions for commercial, industrial, residential, government, and public school districts, and higher education customers. ConEdison Solutions offers programs and services designed to achieve individual energy objectives, including budgeting, environmental, energy efficiency, and security objectives for its clients.

The Crom Corporation ........... Table 60
250 SW 36th Terrace
Gainesville, FL 32607
(352) 372-3436; (352) 372-6209 fax
chris@crmsolutions.com; www.cromcorp.com
Chris Mincey, PE; Area Manager, TES & SE Florida
The Crom Corporation specializes in the design and construction of prestressed concrete tanks for Thermal Energy Storage (TES). Crom prestressed concrete tanks are highly regarded for their longevity and pleasing appearance. The Crom Corporation has constructed over 4000 tanks since 1953 with an unprecedented record of experience.

DN Tanks ....................... Table 75
410 E. Trinity Blvd.
Grand Prairie, TX 75050
972-823-3300
guy.frakenfield@dnr.com
www.dntankstes.com
Guy Frankenfield, Manager, TES & Biofuels
DN Tanks is the largest concrete tank manufacturer in North America with over 130 years of combined experience. With offices throughout the U.S. and in the Middle East, DN Tanks designs and builds watertight prestressed concrete tanks for these liquid storage applications; chilled water Thermal Energy Storage (TES), anaerobic digestion, water, and wastewater.
Dresser-Rand ........................ Table 59
1210 W. Sam Houston Pkwy North
Houston, TX 77073
(713) 973-5373
rwhinery@dresser-rand.com
www.dresser-rand.com
Rick Whinery; Project Development Manager
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DriTherm International Inc. ...... Table 10
2500 Plaza 5, Harborbisd Financial Center
Jersey City, NJ 07311
(973) 808-2255 x 705; (973) 808-2815 fax
jsandman@dritherm.com; www.dritherm.com
Jared S Sandman; President
DriTherm International manufactures DriTherm™ and DriWrap™ high performance hydrophobic insulations for above and below grade applications. DriTherm™ is a hydrophobic insulation and corrosion protection product for below grade applications from -273°F up to 480°F. DriWrap™ is a hydrophobic aerogel blanket insulation and corrosion protection for demanding applications up to 1250°F.

Elliott Group .................... Table 51
901 N Fourth St.
Jeannette, PA 15644
(724) 527-2811; (724) 600-8525 fax
swilshire@elliott-turbo.com; www.elliott-turbo.com
Scott Wilshire; Manager, Steam Turbine Generators
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Emerson Process Management ... Table 73
8200 Market Blvd
Chanhassen, MN 55317
(952) 906-8888; (952) 949-7001 fax
rosemount.info@emersonprocess.com
www.rosemount.com
Joel Lemke; North America Marketing Manager
Emerson Process Management provides the district energy industry with more effective energy monitoring solutions that enable savings and eliminate waste. Rosemount™ pressure, temperature, level and flow instruments and Micro Motion™ flow meters provide BTU submetering to help optimize the efficiency of the steam and chilled water systems throughout your campus.

EVAPCO, Inc. ................. Table 22
5151 Allendale Lane
Taneytown, MD 21787
(410) 756-2600; (410) 756-6450 fax
sbenz@evapco.com; www.evapco.com
Steve Benz; Director, Global Thermal Storage & District Energy
EVAPCO, Inc. is a worldwide leader in the manufacture of environmentally friendly heat transfer products for campus energy systems. Innovative products include Thermal Ice Storage Coils featuring Extra-Pak™ Technology, IBC-compliant AT Cooling Towers, available with Super Low Sound Fans, EVAPTECH® field-erected Cooling Towers with fire retardant FRP structures, and the Pulse-Pure® Non-Chemical Water Treatment System.

Exstol of Ohio, Inc. .............. Table 82
208 Republic St.
Norwalk, OH 44857
(419) 663-2072; (419) 663-1992 fax
mjirbache@aol.com; www.exstolohio.com
Michael J. Irlbacher; Sales Manager
Exstol of Ohio Inc. is a world leading fabricator of insulation systems for chilled water, process piping, steam, refrigeration and commercial applications. We supply a full product range of insulation materials, coatings, sealants and jacketing as well as specification assistance. From pipe covering to fittings to vessel sides and preformed vessel heads, we fabricate it all.

Fibrelite ....................... Table 56
100 Mechanic Street
Pawcatuck, CT 06379 USA
(860) 599-6081; (860) 599-1037 fax
alexy@fibrelitecorp.com; www.fibrelite.com
Alex Yellowley; Sales Manager
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Flexible AMERICAS Corporation . Table 15
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Edgewood, NY 11717
(631) 492-2300; (631) 492-2117 fax
jobrien@flexim.com; www.flexim.com
John O’Brien; General Manager
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Flow Control Industries......... Table 66
PO Box 848
Woodinville, WA 98072
(866) 454-1288; (425) 486-5672 fax
rebecca.tonks@flowcontrol.com
sales@flowcontrol.com
www.flowcontrol.com
Rebecca Tonks; Marketing Coordinator
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**Flowserve / Naval**
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- Finland
- +358 2 85091, +358 40 5066 750
- +358 2 856 506 fax
- vytilalo@flowserve.com; www.naval.fi
- Vesa Vytlando, Sales Eng.

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- Table 92
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- (513) 241-3659
- nmiller@fheng.com; www.fheng.com
- Norman Miller, Vice President

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**Frank Lill & Son, Inc.**
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- Victor, NY 14564
- (585) 742-5715
- mmeehan@franklillandson.com
- Michael Meehan

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**GE Water and Process Technologies**
- Table 20
- 4636 Somerton Road
- Trevose PA 19053
- (603) 490-6357; (603) 386-6649 fax
- mark.ilaria@ge.com; www.gewater.com
- Mark Ilaria, University Market Leader

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- York, PA 17406
- (717) 268-6200; (717) 268-6162 fax
- jayda.freibert@gea.com; www.gea-phe.com/usa
- Jayda Freibert, Segment Sales Manager HVAC & Refrigeration

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**Gilsulate International, Inc.**
- Table 23
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- Santa Clara, CA 95058
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- macintyre@gilsulate.com; www.gilsulate.com
- Bruce MacIntyre, Sales Manager

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- rhomsch@hga.com
- www.hga.com/practice-areas/energy-infrastructure
- Rick Homsch; Vice President

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ICETEC Energy Services .......... Table 54
One East Broad Street, Suite 540
Bethlehem, PA 18018
(610) 419-0593; (302) 477-1794 fax
dferro@icetec.com; www.icetec.com
David M. Ferro; Vice President

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Kessler-Ellis Products ............ Table 21
10 Industrial Drive East
Eatontown, NJ 07724
(800) 631-2165, (732) 935-1320
(732) 935-9344 fax
richard@kep.com; www.kep.com
Richard Gruekos; Flow Product Manager

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Dorval, QC H9P 1H7 Canada
(514) 429-1511; (514) 683-6013 fax
josh.kahan@kiltechcontrols.com
www.kiltechcontrols.com
Josiah Kahan; Business Development Manager, North America

Kiltech provides self-learning, calibrating and automated central plant optimization called CPECS. CPECS processes central plant data in real time to analyze load profiles, climate data and calibrated equipment performance models to implement a precise load based matching approach that provides the maximum level of system performance while respecting chiller, tower and building flow and temperature limitations.

MEP Associates, LLC ............. Table 86
2720 Arbor Court
Eau Claire, WI 54701
(715) 832-5680
(715) 832-5668 fax
jeff@meppassociates.com
www.mepassociates.com
Jeff Urlaub, PE; President / CEO

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Miura North America, Inc. ........ Table 72
1900 The Exchange, Suite 330
Atlanta, GA 30339
(678) 939-7630; (770) 916-1858 fax
jason.smith@miuraboiler.com
www.miuraboiler.com
Jason P. Smith; Director – Sustainability & Strategic Development

Miura offers on-demand operation and modular design to campus district heating to optimize campus utilities for more precise load management resulting in significant energy & CO2 savings.

Nalco, An Ecolab Company ........ Table 40
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(630) 305-1419; (630) 305-2991 fax
sspiwak@nalcno.com; www.nalco.com
Steve Spiwak; Sr. Industry Development Manager

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Nationwide Boiler Inc. .......... Table 55
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Fremont, CA 94538
(510) 490-7100; (510) 490-0571 fax
info@nationwideboiler.com
www.nationwideboiler.com
Tim McBride; Sales Engineer

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ONICON Incorporated .......... Table 12
1500 North Belcher Road
Clearwater, FL 33765
(727) 447-6140; (727) 442-5699 fax
sales@onicon.com; www.onicon.com
Rob Neumann; Sales Manager

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Optimum Energy .......... Table 27
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Seattle, WA 98104
(888) 221-0568
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(847) 966-2235; (847) 470-1204 fax
marketing@permapipe.com
www.permapipe.com
Rob Maffei; Vice President

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Pittsburgh Corning Corporation . . . Table 38
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Pittsburgh, PA 15239
(724) 387-3662; (724) 387-3807 fax
rob_henne@pghorning.com
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Bristol, PA 19007
(713) 304-8844
bryan@quadaxvalves.com; www.quadaxvalves.com
Bryan D. Harris; General Manager

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REHAU Inc. ................. Table 14
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Leesburg, VA 20176
(800) 944-1011; (719) 649-1541; (703) 777-3053 fax
kevin.hale@rehaus.com; www.na.rehaus.com
Kevin Hale; Product Manager

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Sales@rentechboilers.com
www.rentechboilers.com

**Kevin Slepicka; Sr. Sales Engineer**

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RMF Engineering, Inc.
125 Townpark Drive, Suite 300
Kennesaw, GA 30144
(678) 810-0028; (678) 905-3156 fax
tgriffin@rmf.com; www.rmf.com

**Tim Griffin; Principal**

RMF Engineering, Inc. is a leader in the planning, design, and commissioning of district energy generation and distribution systems on campuses across the North America. With over 30 years in business, RMF provides timely solutions to today challenges and positions their clients for future success.

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**Chad Godeaux; Product Specialist**

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Overland Park, KS 66085
(913) 681-2881; (913) 681-8475 fax
nninemire@segainc.com; www.segainc.com

**Nathan Ninemire; Project Manager**

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robert.l.jones@siemens.com
www.siemens.com/energy/powergeneration

**Robert L. Jones**

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