Electric Utilities Attending EUEC
Includes senior management & technical experts
attending & speaking at EUEC

AES
ALLETE
Alliant Energy Corporation
Alstom Power
Ameren Corporation
American Electric Power
American Municipal Power, Inc.
Arizona Public Service Company
Associated Electric Cooperative, Inc.
Basin Electric Power Cooperation
Big Rivers Electric
Buckeye Power
Burbank Water & Power
Calpine Corporation
Carbon Creek Energy
Central Iowa Power Cooperative
Central Minnesota Municipal Power Agency
City Water Light and Power
Clarke Public Utilities
Cleco Corporation
Con Edison
Consumers Energy
Deseret Power
Dominion Generation
DTE Energy
Duke Energy
Dynegy
East Kentucky Power Cooperative
Electricité de France
Empire District Electric Company
Enery Services
Eversource Energy
Exelon Energy
Florida Power & Light Company
GDF Suez
Guam Public Utilities Commission
Hoosier Energy
Idaho Power Company
Independence Power & Light
Intermountain Power Service Corporation
Kansas City Board of Public Utilities
Kansas City Power & Light
Korea Electric Power Corporation
KU Energy, LLC
LG&E
Lower Colorado River Authority
Luminant
Madison Gas & Electric
Michigan South Central Power Agency
MidAmerican Energy Company
Minnesota Power
Minnkota Power Cooperative, Inc.
Montana-Dakota Utilities Company
Muscatine Power and Water
Nebraska Public Power District
Newmont Nevada Energy Investment
NextEra Energy
NiSource
Northern Indiana Public Service Co.(NIPSCO)
Northern Star Generation
NorthWestern Energy
Nova Scotia Power
NRECA
NRG Energy
NV Energy
ODEC
Oklahoma Gas & Electric Company
Old Dominion Electric Cooperative
Omaha Public Power District
Orange Grove Energy
Pacific Gas & Electric
PCPS Energy
Portland General Electric
PPL EnergyPlus LLC
PPL Montana LLC
Puget Sound Electric - PSE
Raven Power
Rochester Public Utilities
Rodan Energy Solutions Inc.
Rural Electric
Sacramento Municipal Utility District
Salt River Project
SAN DIEGO GAS AND ELECTRIC
Santee Cooper
SCANA
Schneider Electric
Sempra US Gas and Power
Southern California Edison
Southern Company
Southern Power Company
Sunflower Electric Power Corporation
Tennessee Valley Authority
Texas Municipal Power Agency
Tri-State Generation and Transmission
Tucson Electric Power
Vectren Corp.
Westar Energy
Western Farmers Electric Cooperative

2,000 ATTENDEES | 400 SPEAKERS | 200 EXHIBITS

EXHIBIT & SPEAKER GUIDE
Program Guide

19th Annual Conference & Expo
Wednesday Feb 3 to Friday Feb 5, 2016
San Diego Convention Center
111 W Harbor Dr, San Diego, CA 92101

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Who Attended

Year | Delegates
---|---
EUEC2015 | 2,236
EUEC2014 | 1,605
EUEC2013 | 1,705
EUEC2012 | 2,037
EUEC2011 | 1,830
EUEC2010 | 1,945
EUEC2009 | 1,783

REGISTRATION COST INCLUDES:

- Admission to any of the 400+ presentations in 10 track rooms
- 13 food and beverage tickets ($300 value)
- 8 networking breaks & meals served in exhibit halls
- Flash Drive containing 400 presentations with audio ($495 value)
- Free spouse registration and welcome reception (495 value)
### EUEC 2016 Schedule

**Tuesday | Feb. 2nd**
- 7:00 am - 7:00 pm Registration
- 12:00 pm - 6:00 pm Exhibit Set-up
- 5:00 pm - 7:00 pm Welcome Reception

**Wednesday | Feb. 3rd**
- 7:00 am - 7:00 pm Registration
- 12 pm - 7:00 pm Exhibits Open
- 9:00 am - 12:00 pm Plenary Session
- 12:00 pm - 1:00 pm Networking Lunch 1
- 1:00 pm - 3:00 pm Tech Session 1
- 3:00 pm - 3:30 pm Networking Break 2
- 3:30 pm - 5:30 pm Tech Session 2
- 5:00 pm - 7:00 pm Networking Reception 3

**Thursday | Feb. 4th**
- 7:00 am - 7:00 pm Exhibits Open
- 7:30 am - 9:30 am Tech Session 3
- 9:30 am - 10:00 am Networking Break 4
- 10:00 am - 12:00 pm Tech Session 4
- 12:00 pm - 1:00 pm Networking Lunch 5
- 1:00 pm - 3:00 pm Tech Session 5
- 3:00 pm - 3:30 pm Networking Break 6
- 3:30 pm - 5:30 pm Tech Session 6
- 5:00 pm - 7:00 pm Networking Reception 7

**Friday | Feb. 5th**
- 7:00 am - 12:00 pm Exhibits Open
- 7:30 am - 9:30 am Tech Session 7
- 9:30 am - 10:00 am Networking Break 8
- 10:00 am - 12:00 pm Tech Session 8
- 12:00 pm - 4:00 pm Exhibit Tear Down

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**Mission Statement**
EUEC facilitates information exchange and fosters cooperation between industry, government, regulators, academia and stakeholders for the protection of our environment and energy security.

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**Keynote**

**Wednesday, February 3rd, 9:00 AM - 12:00 PM**
San Diego Convention Center | 111 W. Harbor Dr. | San Diego, CA.

**UPDATE FROM U.S. EPA**
Janet McCabe — 9:00 AM - 9:30 AM
Acting Assistant Administrator | U.S. Environmental Protection Agency

**FOSSIL ENERGY & AMERICA’S ENERGY SECURITY**
David Mohler — 9:30 - 10:00AM
Deputy Assistant Secretary for Clean Coal and Carbon Mgmt
U.S. Department of Energy

**ELECTRIC UTILITY SOLUTIONS FOR REGULATORY CHALLENGES**
Pat Vincent-Collawn — 10:00 AM - 10:30 AM
Chairman, President and CEO | PNM Resources

**DECARBONIZING ENERGY: WHY IT TAKES EVERYTHING**
Armond Cohen — 10:30 AM - 11:00 AM
Executive Director | Clean Air Task Force

**HIGHLIGHTS OF EUEC2016**
Dr. Prabhu Dayal — 11:00 AM - 11:30 AM
Chairman | EUEC

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**SPEAKER FORMAT**
- All speakers limited to 20 minutes using PowerPoint
- Submit abstract online and select track and session of choice
- Each session is 2 hours long with 6 speakers and 2 co-chairs
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<th>Track</th>
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<td>Sessions</td>
<td>AIR POLICY &amp; REGS</td>
<td>CEMS &amp; AIR QUALITY</td>
<td>MERCURY CONTROL</td>
<td>ENERGY POLICY &amp; SECURITY</td>
<td>CONTROL TECHNOLOGIES</td>
<td>RENEWABLE ENERGY</td>
<td>OPERATIONS &amp; MGMT</td>
<td>CLIMATE, ELG, CCS &amp; CCR</td>
<td>WATER 316(b)</td>
<td>FLEET, BATTERY &amp; STORAGE</td>
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<td>**Wednesday</td>
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<td>1:00PM to 3:00PM</td>
<td>Regulatory Update</td>
<td>CBMS &amp; Air Quality</td>
<td>Hg Control Demonstrations</td>
<td>Energy Policy &amp; Security</td>
<td>Control Tech.</td>
<td>Renewable Energy Markets</td>
<td>Decommissioning of Power Plants</td>
<td>Climate Change &amp; GHG</td>
<td>Wastewater Mgmt.</td>
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<td>3:30PM to 5:30PM</td>
<td>CCP- Clean Power Plan</td>
<td>CBMS &amp; Hg</td>
<td>Activated Carbon - Hg</td>
<td>Sustainability Projects &amp; Data</td>
<td>ESP &amp; PM</td>
<td>Waste to Energy</td>
<td>Compliance Strategies &amp; Plant Conversions</td>
<td>Post COP21 &amp; Inventories</td>
<td>Water &amp; Electric Utilities</td>
<td>EV, PHEV &amp; Charging</td>
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<td>**Thursday</td>
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<td>7:30AM to 9:30AM</td>
<td>NAAQS</td>
<td>EPA Regulatory Update</td>
<td>Hg Control Technologies</td>
<td>Transmission &amp; Distribution</td>
<td>SO2, SO3 &amp; Additives - DSI</td>
<td>Renewable Development Analysis</td>
<td>Power Plant &amp; Boiler Optimization</td>
<td>ELG - Utility Perspective</td>
<td>316b</td>
<td>Battery &amp; Storage Systems</td>
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<td>10:00AM to 12:00PM</td>
<td>NSR</td>
<td>PM, CBMS</td>
<td>DSI &amp; Activated Carbon</td>
<td>Smart Grid &amp; Micro Grid</td>
<td>SO2, SO3 &amp; Additives - WFDG</td>
<td>Renewable Project Development</td>
<td>EHS &amp; EMIS</td>
<td>CCR &amp; ELG Compliance Mgmt</td>
<td>FGD Wastewater - ZLD</td>
<td>Battery &amp; Storage</td>
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<td>1:00PM to 3:00PM</td>
<td>Next Gen. Compliance Strategies</td>
<td>Modeling - 1hour SO2</td>
<td>Hg MATS Compliance</td>
<td>Energy &amp; Environment</td>
<td>NOx CONTROL</td>
<td>Solar &amp; Wind</td>
<td>BHS &amp; Risk Mgmt</td>
<td>CCR &amp; ELG</td>
<td>FGD Wastewater</td>
<td>Back-up Power &amp; Energy Storage</td>
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<td>111(d)- CPP Compliance</td>
<td>Modeling</td>
<td>Hg Control Tech</td>
<td>Energy Efficiency</td>
<td>SCR</td>
<td>Solar &amp; PV</td>
<td>Operations &amp; Optimization</td>
<td>Coal Ash &amp; FGD</td>
<td>316(b), ELG, Wastewater</td>
<td>Flow &amp; Li-Ion Batteries</td>
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<td>Permits &amp; Compliance</td>
<td>Monitoring, Testing &amp; HCL</td>
<td>Young Power Professionals</td>
<td>Natural Gas</td>
<td>Remediation</td>
<td>Community Solar</td>
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<td>Water Sustainability</td>
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<td>Permitting, Air Policy &amp; Regulations</td>
<td>Air Quality - Fenceline Monitoring</td>
<td>Distributed Generation</td>
<td>Compliance Tech &amp; Strategies</td>
<td>Renewable Energy &amp; Geothermal</td>
<td>Operations &amp; Mgmt</td>
<td>CCS II</td>
<td>Water Supply &amp; Security</td>
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<td>REGULATORY UPDATE</td>
<td>John Kinsman, Sr. Director - Environment, Edison Electric Institute</td>
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<td>VIEW FROM THE CLEAN POWER PLAN TRENCH</td>
<td>Jay Holloway, Partner, Sutherland, Asbill &amp; Brennan, LLP</td>
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<td>A1.3</td>
<td>NEW DEVELOPMENTS IN STATE ENERGY POLICY</td>
<td>John Finnigan, Lead Counsel, Environmental Defense Fund</td>
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<td>A1.4</td>
<td>A MINNESOTA UTILITY OUTLOOK ON CLEAN POWER PLAN REQUIREMENTS</td>
<td>Michael Cashin, Environmental Policy Advisor, Minnesota Power (ALLETE)</td>
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<td>HOW EPA MADE A MOCKERY OF THE GUIDELINE ON AIR QUALITY MODELS</td>
<td>Gale Hoffnagle, Senior Vice President, TRC Companies, Inc.</td>
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<td>ENVIRONMENTAL DISPATCH: THE NEW PARADIGM?</td>
<td>Block Andrews, Associate Environmental Engineer, Bums &amp; McDonnell; Mike Borgstadt</td>
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<td>WORKING TOWARD THE BEST STATE PLAN UNDER EPA'S NEW CLEAN POWER PLAN</td>
<td>Eric Hiser, Partner, Jorden Bischhoff &amp; Hiser, PLC</td>
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<td>A2.2</td>
<td>THE CLEAN POWER PLAN: TOWARD IMPLEMENTATION AND COMPLIANCE</td>
<td>Marc Chupka, Principal, The Brattle Group</td>
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<td>THE “NEW” CLEAN POWER PLAN</td>
<td>William Campbell, Principal Engineer, Environmental Consulting and Technology</td>
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<td>CPP LITIGATION: EPA REGULATION OF GHGS UNDER THE CLEAN AIR ACT</td>
<td>Allison Wood, Partner, Hunton &amp; Williams LLP</td>
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<td>IMPACTS OF CPP POLICY SCENARIOS ON FOSSIL FUEL WHOLESALE POWER MARKETS</td>
<td>Philip Graeter, Associate, Energy Ventures Analytics</td>
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<td>EXPECTED EFFECTS OF THE CLEAN POWER PLAN</td>
<td>Walter Wooten, Director of Sales, Energy &amp; Utilities, 360factors, Inc.; Randall Rosenganen</td>
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<td>PROBABILISTIC &amp; SOURCE CHARACTERIZATION TECHNIQUES IN AERMOD COMPLIANCE</td>
<td>Sergio Guerra, CPP, Inc.; Ron Peterson</td>
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<td>2016: A YEAR OF INTENSIVE ACTIVITY FOR SO2 NAAQS IMPLEMENTATION</td>
<td>Robert Paine, Associate VP, AECOM; David Heinold, Mary Kaplan &amp; Bob Iwanchuk</td>
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<td>SO2 NAAQS DESIGNATIONS &amp; IMPLEMENTATION OF THE DATA REQUIREMENTS RULE</td>
<td>Joe Hammond, Principal Consultant, Trinity Consultants</td>
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<td>REDEFINING AQ REGULATION TO ADDRESS HEALTH RISKS FROM CLIMATE CHANGE</td>
<td>Sonja Sax, Senior Manager, Ramboll Environ</td>
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<td>A3.5</td>
<td>THE NEW OZONE NAAQS: ISSUES AND IMPLICATIONS</td>
<td>Richard Hamel, Senior Project Manager, Environmental Resources Management (ERM)</td>
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<td>UNPACKING THE REVISED OZONE NAAQS</td>
<td>Brian O'Neal, Air Permitting Manager, Black &amp; Veatch</td>
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<td>NR 2016 - THE CHALLENGE CONTINUES</td>
<td>Ken Weiss, Managing Partner-Global Power Service, ERM</td>
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<td>NSR REFORM IMPLEMENTATION CHALLENGES</td>
<td>Robert Iwanchuk, Program Manager, AECOM; Mary Kaplan &amp; Robert Paine</td>
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<td>A4.3</td>
<td>WHAT EPA'S &quot;NEXT GEN&quot; COMPLIANCE INITIATIVE MEANS FOR THE POWER SECTOR</td>
<td>Alexander Borner, Counsel, Perkins Coie LLP</td>
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<td>THE UTILITY USE OF ENVIRONMENTAL DATA TO COMPLY WITH EMEP RENREG</td>
<td>Sue Foster, Environmental Policy Advisor, ERM, Inc.</td>
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<td>A4.5</td>
<td>THE ROLE OF UTILITIES IN STATE PLAN DEVELOPMENT</td>
<td>Maureen Gannon, Executive Director-Environmental Services, PNM Resources</td>
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<td>CONTROLLING SLAG &amp; FOULING AS A COMPLIANCE STRATEGY FOR EPA'S CPP</td>
<td>Ian Saratovsky, Fuel Tech, Inc.; Kent W Schulz, Chris R Smyrnisiotes &amp; Emil P Rivera</td>
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<td>COMPLIANCE WITH THE CLEAN POWER PLAN</td>
<td>Mack McGuire, Partner, Troutman Sanders; Randy Bogdon</td>
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<td>A5.2</td>
<td>THE UTILITY USE OF ENVIRONMENTAL DATA TO COMPLY WITH EMEP RENREG</td>
<td>William Smalling, Attorney, The Law Office of C. William Smalling, PC</td>
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Preliminary Program - Subject to Change
A7. PERMITS & COMPLIANCE

A7.1 PERMITTING CHALLENGES FOR A COMBINED CYCLE COMBUSTION TURBINE
Dwain Kincaid, Senior Env. Consultant, Air Quality Services, LLC

A7.2 COMPLIANCE WITH PERMITS DOES NOT PREVENT CIVIL SUITS UNDER STATE LAW
Co-chair - Michael McMenas, Senior Process Specialist, Kiewit Engineering & Design Co.

A7.3 NEW OEHHA TOXICS GUIDELINES, EFFECTS ON AB2588, AND PERMITTING
Gregory Wolfe, Principal, Yorke Engineering, LLC; Judith Yorke

A7.4 BOILER MACT IMPLEMENTATION - RECORDKEEPING AND DATA MANAGEMENT
Karlin Greenacre, Senior Project Manager, TRC Companies, Inc.

A7.5 CITIZEN SCIENCE CAMPAIGN: SPOT THE SMOKE
Shawn Dolan, President, Virtual Technology, LLC; Randi Ryan, Sustainable Skys

A7.6 THE CCR RULE AND CORRECTIVE ACTION: PLAN NOW TO SAVE LATER
Co-chair - Katie Bland, Senior Enviro. Engineer, Burns & McDonnell; John Hesemann

A8. PERMITTING, AIR POLICY & REGULATIONS

A8.1 HEALTH IMPACT ASSESSMENT - TOOL FOR MANAGING PROJECT'S NON-TECHNICAL RISK
Scott Weaver, Partner, ERM; Sharon Quiring CIH & Kristina Mitchell

A8.2 YOUR PROPOSED SIMPLE- OR COMBINED-CYCLE FACILITY AIR PERMIT
Co-chair - Mary Hauner-Davis, Manager - Air/Noise, Burns & McDonnell; Minda Nelson

A8.3 PERMITTING - MORE THAN PSD AND NPDES PERMITS...
Joseph Takats, Environmental Consultant, WorleyParsons Group Ltd; Jack Senthivel

A8.4 REVIEW OF GHG BACT DETERMINATIONS FOR GAS TURBINES
Co-chair - George Lipka, Consulting Engineer, Tetra Tech, Inc.

A8.5 GREENHOUSE GAS CHALLENGES FOR NEW GAS TURBINE-BASED PLANTS
Teaman Unrein, Associate Manager, Luminare, LLC

A8.6 COMPARISON US/EU REGULATIONS ON AIR POLLUTANTS FROM LARGE FOSSIL FUEL POWER PLANTS
Eric Joos, Expert, Electricité de France (EDF)
**Thursday | February 4 | 10AM - 12PM**

**B4. PM, CEMS**

**B4.1 DIGITAL OPACITY SUCCESS STORIES**
Shawn Dolan, President, Virtual Technology, LLC; Scott Hicks

**B4.2 PM10/2.5 EMISSIONS FROM GAS-FIRED BOILERS & HEATERS**
Co-chair - Glenn England, Ramboll Environ; Adin & Benson, Woods Cross; Croghan, Montrose

**B4.3 QUARTERLY PM TESTING: UPGRADING TO PM CEMS**
John Brown, PCME Sales Manager, Altech PCME

**B4.4 PM CEMS VS PM CPMS**
Co-chair - Robert Baxter, President, B3 Systems, Inc.

**B4.5 COMPLIANCE STRATEGY FOR USING PM MONITORS AS A CPMS**
Rick Krenzke, Project Director, TRC Companies, Inc.

**B4.6 PORTABLE DEVICE FOR WIDE RANGE AEROSOL SIZE DISTRIBUTIONS**
Markus Pesch, Technical Director, GRIMM Aerosol GmbH & Co. KG; Volker Ziegler

**Thursday | February 4 | 1PM - 3PM**

**B5. MODELING & 1-HOUR SO2**

**B5.1 STRATEGIES TO DEAL WITH MONITORED EXCEEDANCES WHEN AERMOD CAN'T BE USED**
Co-chair - Ron Petersen, Vice President, CPP, Inc.

**B5.2 1-HOUR SO2 AREA DESIGNATION IN THE VICINITY OF A COAL-FIRED POWER PLANT**
Salahuddin Mohammad, Senior Engineer, Golder Associates Inc.; Kenneth F. Kosky

**B5.3 SO2 1-HOUR DESIGNATION MODELING - WHY DO YOUR OWN?**
George Schewe, Principal Consultant & Meteorologist, Trinity Consultants

**B5.4 1-HOUR SO2 COMPLIANCE CHALLENGES**
Co-chair - Jeffrey Hanson, Senior Manager - Environmental Services, Alliant Energy Corp

**B5.5 MODELING EMISSION RATES OF SO2 FOR AREA DESIGNATIONS FOR 1-HR SO2**
Moha Parikh, Project Manager, CH2M; Don Caniparoli

**Thursday | February 4 | 3:30PM - 5:30PM**

**B6. MODELING**

**B6.1 REVISIONS TO THE TIER-2 AND TIER-3 NO2 MODELING REFINEMENTS**
Richard Hamel, Senior Project Manager, Environmental Resources Management; Mark Garnett, Technical Fellow

**B6.2 SOURCE CHARACTERIZATION REFINEMENTS FOR DISPERSION MODELING APPS**
Co-chair - Robert Paine, Associate Vice President, AECOM; Mary Kaplan

**B6.3 SINGLE SOURCE PHOTOCHEM. MODELING FOR PSD PERMITTING FOR OZONE & PM**
Co-chair - Kith Vijayaraghavan, Ramboll Environ; Ralph Morris

**B6.4 EXPERIENCE WITH THE SCICHEM MODEL**
Jason Reed, Meteorologist, SLR Intl. Corp.; Bruce Macdonald & Matt Porter
### C1. HG Control Demonstrations

<table>
<thead>
<tr>
<th>Track</th>
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<tr>
<td>C1.1</td>
<td>Wednesday</td>
<td>1PM - 3PM</td>
<td>Wet Scrubber Additive Evaluation for the Gibbons Creek Power Station</td>
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<td>C1.2</td>
<td>Wednesday</td>
<td>1PM - 3PM</td>
<td>New Full-Scale Results on Gore™ Mercury Control System</td>
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<td>C1.3</td>
<td>Wednesday</td>
<td>1PM - 3PM</td>
<td>Advanced Mercury Control Tech. Commissioning &amp; Demonstration</td>
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<tr>
<td>C1.4</td>
<td>Wednesday</td>
<td>1PM - 3PM</td>
<td>When Mercury Re-Emission Isn’t</td>
</tr>
<tr>
<td>C1.5</td>
<td>Wednesday</td>
<td>1PM - 3PM</td>
<td>HG Re-Emission Control - A New Approach Allows for Rapid Deployment</td>
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### C2. Activated Carbon - HG

<table>
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<th>Track</th>
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<tr>
<td>C2.1</td>
<td>Wednesday</td>
<td>3:30PM - 5:30PM</td>
<td>Impacts of DSI on ACI for Mercury Control</td>
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<tr>
<td>C2.2</td>
<td>Wednesday</td>
<td>3:30PM - 5:30PM</td>
<td>Activated Carbon Overview with Safe Handling Practices</td>
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<td>C2.3</td>
<td>Wednesday</td>
<td>3:30PM - 5:30PM</td>
<td>Mercury Removal Performance with Non-Traditional Sorbents</td>
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<td>C2.4</td>
<td>Wednesday</td>
<td>3:30PM - 5:30PM</td>
<td>Mercury Adsorption of Activated Carbon with Simulated Gas Condition</td>
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<td>C2.5</td>
<td>Wednesday</td>
<td>3:30PM - 5:30PM</td>
<td>Powdered Activated Carbon for the Removal of HG in WFGD Wastewater</td>
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### C3. HG Control Technologies

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<tr>
<td>C3.1</td>
<td>Thursday</td>
<td>7:30AM - 9:30AM</td>
<td>Dry Scrub Additive Facilities Mercury Emission Compliance</td>
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<td>C3.2</td>
<td>Thursday</td>
<td>7:30AM - 9:30AM</td>
<td>Ultra Advanced Amended Silicates for HG Control in Cold-Side ESPS</td>
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<td>C3.3</td>
<td>Thursday</td>
<td>7:30AM - 9:30AM</td>
<td>Finding a Solution to PAC Induced SDA Scaling</td>
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<td>C3.4</td>
<td>Thursday</td>
<td>7:30AM - 9:30AM</td>
<td>Fabric Filters for Efficient and Sustained Mercury Reduction</td>
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### C4. DSI & Activated Carbon

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<td>Thursday</td>
<td>10AM - 12PM</td>
<td>Balance of Plant Effects From Large DSI Systems</td>
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<td>C4.2</td>
<td>Thursday</td>
<td>10AM - 12PM</td>
<td>Operational Cost Savings with New DSI/ACI Technologies</td>
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<td>C4.3</td>
<td>Thursday</td>
<td>10AM - 12PM</td>
<td>Reducing Reagent &amp; Sorbent Costs for HG &amp; Particulate Matter Control</td>
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<td>C4.4</td>
<td>Thursday</td>
<td>10AM - 12PM</td>
<td>Tech. To Mitigate the Impact of Activated Carbon Injection On AQ</td>
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<tr>
<td>C4.5</td>
<td>Thursday</td>
<td>10AM - 12PM</td>
<td>Powdered Activated Carbon Injection Resulting in Improved Dispersion</td>
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### C5. HG Mats Compliance

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<td>Thursday</td>
<td>1PM - 3PM</td>
<td>Plant Operational Experience Using Amended Silicates for HG Control</td>
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<td>C5.2</td>
<td>Thursday</td>
<td>1PM - 3PM</td>
<td>PS-12A Compliance HG EMS without Calibration Generators</td>
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<td>1PM - 3PM</td>
<td>Reducing the Cost of Mercury Control and Improving Plant Operations</td>
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<td>C5.4</td>
<td>Thursday</td>
<td>1PM - 3PM</td>
<td>Minimizing Costs &amp; Lost Generation From MATS Work Practice Standards</td>
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<td>C5.5</td>
<td>Thursday</td>
<td>1PM - 3PM</td>
<td>Having an Unexpected Re-Emission Emergency? Who Are You Going to Call?</td>
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### C6. HG Control Technologies

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<td>Mercury Monitoring and Testing for Performance Evaluation</td>
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<td>C6.2</td>
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<td>3:30PM - 5:30PM</td>
<td>Reducing Operating Costs and Risks of HG Control with Fuel Additives</td>
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<td>C6.3</td>
<td>Thursday</td>
<td>3:30PM - 5:30PM</td>
<td>Process-Integrated Tech. for HG Abatement in the Cement Industry</td>
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<td>C6.4</td>
<td>Thursday</td>
<td>3:30PM - 5:30PM</td>
<td>PAC and Sorbent Handling for Mercury Control</td>
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Preliminary Program - Subject to Change
C7. YOUNG POWER PROFESSIONAL

7.1 ARE YOU A RAINMAKER? CAREER ADVICE FOR THE YOUNG POWER PROFESSIONAL
Priscilla Kissinger, Special Projects Manager, Carbonxt

7.2 GROWING AS A LEADER
David Mazyck, PhD, CEO, Carbonxt

7.3 VERSATILITY & ADAPTABILITY TO GROW YOUR CAREER
Rick Sparrow, President, Latrop-Trotter Company

7.4 THE IMPORTANCE OF INVOLVEMENT WITH INDUSTRY AGENCIES
Jerry Purvis, Director of Environmental Affairs, East Kentucky Power

7.5 THE VALUE OF SEEKING OUTUNTRADITIONAL APPROACHES
Conner Cox, Strategic Project Manager, United Conveyor Corporation

D1. ENERGY POLICY & SECURITY

D1.1 HOW TO MAKE DRIVING ON SUNSHINE A REALITY WHILST INCREASING ENERGY SECURITY
Desmond Wheatley, CEO, Envision Solar

D1.2 A TALE OF TWO WINTERS
Stephen Slocomb, Principal, Epsilon Associates

D1.3 SECURITY PROGRAMS AND PROTECTIVE MEASURES
Joachim Gloschat, Senior Intelligence & Security Analyst, Gannett Fleming

D1.4 GAS & ELECTRIC INTERDEPENDENCIES: NEAR-TERM INFRASTRUCTURE OUTLOOK
Co-chair - Justin Adder, NETL/U.S. DOE; Tarka, NETL/U.S. DOE

D1.5 40CFR 1506.11 - NEPA EMERGENCY CLAUSE
Richard Knox, Regulatory Compliance Specialist, Amec Foster Wheeler

D1.6 INVESTING IN AMERICAN ENERGY: U.S. DOE’S LOAN PROGRAMS OFFICE
Kerri Neary, Technical Project Manager, U.S. DOE Loan Programs Office

D2. SUSTAINABILITY PROJECTS & DATA

D2.1 OPPORTUNITIES FOR COAL POWER GENERATION IN THE 21ST CENTURY
Co-chair - Thomas Tarka, Sr. Engineer, NETL; Robert James & Patrick Le, NETL/ U.S. DOE

D2.2 JOURNEY OF SUSTAINABILITY
Co-chair - Ensan El-Ayoubi, Facilities Planning Consultant, Saudi Aramco

D2.3 DISTRIBUTED BIO-HYDROGEN REFUELING STATIONS
Peter Schubert, Professor, Indiana University-Purdue University Indianapolis

D2.4 BIG DATA ANALYSIS: MINING & ANALYZING UTILITY DATA
Michael Steifman, CEO/Founder, UtiliSave

D2.5 NEXRAD PRODUCTS AND NOAA’S BIG DATA PARTNERSHIP
Amy Gaskins, Big Data Project Director, National Oceanic & Atmospheric Administration

D2.6 WHOLE BUILDING DATA ACCESS: A UTILITIES PERSPECTIVE
Hetal Parekh, Research Assistant, Carnegie Mellon; Cochran , Parekh, Marion & Wagner

D3. TRANSMISSION & DISTRIBUTION

D3.1 DISTRIBUTED GEN. IN STANDBY: ADDRESS UTILITY BARRIERS TO CLEAN DG INSTALLATION
Graeme Miller, Energy Policy Analyst, Energy Resources Center; Stefano Galasso

D3.2 LONG-EARED BAT GINTERM 4(D) RULE TRANSMISSION LINE SITING & PERMITTING
Co-chair - Russell Light, Environmental Specialist, Sargent & Lundy; Daniel Laubenthal

D3.3 UNDERSTANDING NOISE COMPLAINTS FROM RELATIVELY LOW-NOISE UTILITY PROJECTS
Eddie Duncan, Director, RSG

D3.4 GIS TRANSMISSION PLANNING TOOLS FOR THE WESTERN INTERCONNECT
Co-chair - Daniel Moreno, GIS Manager, ICF

D3.5 GRID RESILIENCE INDICATORS FOR A SUSTAINABLE FUTURE
Thierry Spiess, PhD and Research Assistant, Centre for Urban Energy
D4. SMART GRID & MICRO GRID

D4.1 MICROGRID - DESCRIPTION OF INSTALLATIONS AND OPERATING EXPERIENCE
Co-chair - Uwe Schmiemann, Marketing & Strategy Mgr., Solar Turbines International

D4.2 MICROGRID DEVELOPMENT - REGULATORY AND LEGAL CONSIDERATIONS
Will DuBois, Partner, Venable LLP

D4.3 SUCCESSFUL MICROGRID IMPLEMENTATION
Session Sponsor & Co-chair - Lucas Oehlerking, Microgrid Solution Lead, Black & Veatch

D4.4 DISTRIBUTED INTELLIGENCE: CHANGING THE CALCULUS FOR SMART GRID INVESTMENT
Tim Wolf, Director of Marketing, Itron Inc.

D4.5 NANO-GRIDS; FUTURE POWER GRIDS - STATE OF THE ART
Adel El Shahat, Assistant Professor, Georgia Southern University; Allen E. Paulson

D5. ENERGY & ENVIRONMENT

D5.1 FUNDING SUSTAINABILITY FOR SUSTAINABLE OUTCOMES
Co-chair - Doug Smith, CEO - Founder, Village Green Global Inc.; Helen Hannah

D5.2 UTILITY INCENTIVES: DOS AND DON'TS FOR PROJECT DEVELOPERS
Ricson Chude, Project Manager, Southern California Edison

D5.3 SUSTAINABILITY PROJECTS, SURVEY AND OUTCOMES AT NEW YORK UNIVERSITY
Co-chair - Bapanaiah Penugonda, Associate Professor, NYU College of Dentistry

D5.4 HOW TO ATTRACT WALL STREET INVESTORS TO FINANCE ALTERNATIVE ENERGY
Nedia Miller, Founder, MILLER, CTA

D5.5 BOOM OR BUST: RENEWABLE FUELS MARKETS IN 2016
Jordane Godwin, Biofuels Analyst, Platts

D5.6 Merging EU Energy & Env. Policy to Achieve Energy Independence from Russia
Nadya Zhukova, Student, Burns School of Real Estate & Construction Management

Thursday | February 4 | 10AM - 12PM

D6. ENERGY EFFICIENCY

D6.1 ELECTRONIC UTILITY INVOICING HELPS TO TACKLE ENERGY USE
Lori Herrick, Energy Management Administrator, City of Virginia Beach

D6.2 TABLETS & MOBILE GIS TO SAVE MONEY & TIME ON AERIAL RAPTOR NEST SURVEYS
Matt Alexander, Vice President, Anatnum Field Solutions

D6.3 FUNDING LARGE SCALE RESIDENTIAL TREE PLANTING + TECHNOLOGY = ENERGY CONSERVATION FOR EVERYONE!
Co-chair - Kristen Bouquet, Business Development Manager, Arbor Day Foundation

D6.4 VIRTUALIZE ENERGY FUNCTIONS & PROCESSES INTO A CLOUD BASED MODEL
Mark Hauenstein, Managing Partner, UC-Won

D6.5 CPP COMPLIANCE AND REDUCING SYSTEM CONGESTION THROUGH DEPLOYED EE
Co-chair - Robert Neumann, Associate Director, Navigant Consulting; Amanvir Chahal

Thursday | February 4 | 1PM - 3PM

D7. NATURAL GAS

D7.1 FRAC FREE NATURAL GAS - CONSUMERS DO HAVE A CHOICE
Co-chair - Tom Fitzsimmons, President, Carbon Creek Energy; John Harpole, Mercator Energy

D7.2 SMALL SCALE LNG FOR DISTRIBUTED GENERATION - "DOES IT MAKE CENTS?"
Michael Nicoloro, Sr. VP - Energy Services; Sanborn, Head & Associates; Joan Fontaine

D7.3 COMBINED CYCLE SITE LICENSIBILITY ANALYSIS: FATAL FLAWS & CRITICAL ISSUES
David Shotts, Partner, ERM; Tom Wickstrom

D7.4 ADDING DUAL-FUEL CAPABILITY AT EXISTING COMBUSTION TURBINE POWER PLANTS
Michael Keller, Senior Project Manager, TRC Companies, Inc.

Thursday | February 4 | 3:30PM - 5:50PM

D8. DISTRIBUTED GENERATION

D8.1 REACHING NET ZERO AND WWTPS
Paul Hughes, North America Representative, ElectraTherm; Rob Emrich

D8.2 CONSOLIDATION IN THE DISTRIBUTED GENERATION MARKET
Co-chair - Jason Miller, Marketing & Sales Manager, Coronal Group LLC; Edwin Feo

D8.3 EVALUATING BUSINESS CASE FOR UTILITY-OWNED DISTRIBUTED GENERATION ASSETS
Session Sponsor & Co-chair - Ajay Kasarabada, Proj. Mgr., Black & Veatch; Ed. H. Overcast

D8.4 MOBILE AND MODULAR GAS TURBINE POWER PLANT SOLUTIONS SUPPORTING DISTRIBUTED POWER - CASE STUDIES
Dalia El Tawy, Program Manager, Solar Turbines Incorporated

D8.5 NET METERING & MARKET FEEDBACK: THE IMPACT OF RETAIL RATE DESIGN ON DISTRIBUTED PV DEPLOYMENT
Naim Darghouth, Lawrence Berkeley National Lab; R. Wiser, G. Barbose & A. Mills

D8.6 DISTRIBUTED STATE ESTIMATION FOR SMART GRIDS
Awais Riaz, Graduate Student, Georgia Institute of Technology; A P Meliopoulos

Thursday | February 4 | 3:30PM - 5:50PM

Friday | February 5 | 7:30AM - 9:30AM

Friday | February 5 | 10AM - 12PM
### E1. CONTROL TECHNOLOGIES

**E1.1 BEST PRACTICES FOR HANDLING SODIUM SORBENTS**
Session Sponsor & Co-chair - Comelia Cetvu-Vasiliiu, SOLVay Natural Atwell, Wood & Riccio

**E1.2 REMOTE MONITORING USING HYPERSPECTRAL IMAGING**
Dr. Robert Kester, CTO, Rebellion Photonics; Nathan Hagan, PhD

**E1.3 AUTO DR SOLUTIONS FOR COMMERCIAL, INDUSTRIAL & INSTITUTIONAL PROPERTIES**
Laurie Wiegand-j Sjollson, Senior Vice President, IPKeys Power Partners

**E1.4 IT MEETS OT**
Phil Camillo, Vice President, Finley Engineering Company, Inc.

**E1.5 THE HEART OF THE MATTER - PULVERIZER OPTIMIZATION**
Co-chair - Paul Gamnham, VP LE3 - USA, Loesche Energy Systems; Dr. Simon Mutzenich

**E1.6 ROBOTICS PROCESS AUTOMATION WITHIN UTILITY PROCESSES**
Charming Shah, Global BPO Practice, Capgemini

### E2. ESP & PM

**E2.1 IMPACTS OF REAGENT INJECTION ON FLY ASH RESISTIVITY AND ESP PERFORMANCE**
Robert Mastropietro, Vice President of Technology, Nol-Tec Systems

**E2.2 HIGH FREQUENCY ENERGIZATION IN INTERMITTENT ENERGIZATION MODE**
Hardik Shah, Engineer, SEI; G. Grieco, ACA; D. Boll & N. Pelech, Ameren

**E2.3 OPTIMIZING CONTINUOUS WATER WASHING IN WET ESPS WITH PILOT PLANT TESTING**
Co-chair - Anthony Silva, Advisory Engineer, Babcock & Wilcox Al Moretti & Chung-Yi Liu

**E2.4 FGD WASTE WATER HANDLING WITH A FOCUS ON MERCURY AND SULFUR DIOXIDE**
Co-chair - Dave Murphy, Business Development - Waste Water, STEAG SCR-Tech Inc.

**E2.5 WIND BARRIER TYPE DUST CONTROL FOR OPEN STORAGE PILES**
David Giroty, Sales Manager, Dust Solutions Inc.

**E2.6 EMC CASE STUDIES - REDUCTION OF PM’S BY THE USE OF THE UNIQUE EM**
Andreas Gangl, Regional Sales Manager, Schuech GmbH; Holger Reinhold

### E3. SO2, SO3 & ADDITIVES - DSI

**E3.1 IMPROVED SO2 CAPTURE WITH HYDRATED LIME DSI**
Co-chair - Pat Mongoven, Business Development Manager, Mississippi Lime; Curt Behn

**E3.2 ADVANCES IN AMMONIA BASED DESULFURIZATION**
Stein Carlson, Sr. Sales Manager, Jiangnan Environmental Technology, Inc.; Peter Lu

**E3.3 DRY SCR RUBBER OPERATING COST REDUCTION STRATEGY & PRACTICE**
Co-chair - Stewart Nicholson, President, Primex Process Specialists, Inc.; Rodrigo Camargos

**E3.4 DRY SORBENT HANDLING AND MIXING PROCESS MODULES TO SUPPORT TECHNOLOGIES FOR STACK GAS TREATMENTS INCLUDING FGD, HG, AND NOX**
Charles Alack, Semi-Bulk Systems, Inc.

**E3.5 IMPACT OF MATS ON ESPS AND HOW TO DEAL WITH IT**
John A. Knapik, Precipitator Technical Consultant, The Babcock & Wilcox Company

### E4. SO2, SO3 & ADDITIVES - WFGD

**E4.1 EFFICIENT WFGD OXIDATION USING SULFITE CONTROL**
Mike Vanre, Sales Manager, General Electric; Raymond Gansley

**E4.2 HORIZONTAL WET SCRUBBING OF SO2, HF & PARTICULATES FROM FLUE GAS EXHAUSTS**
Laurie Wiegand-j sollowson, Senior Vice President, IPKeys Power Partners

**E4.3 MAKING A COAL-FIRED BOILER WITH A TIME-BASED CDS SYSTEM CCS READY**
Co-chair - ShiwBeng, Marketing & Technical Manager, Graymont

**E4.4 COAL COMBUSTION CATALYSTS - PERFORMANCE REVIEW**
Co-chair - Jhon Aronson, President CEO, AATA International, Inc.

**E4.5 PREPARING POWER PLANT DUCTS & CHIMNEYS FOR LOW TEMPERATURE OPERATION**
Gary Geirba, Business Development, Hadek

**E4.6 ADVANTAGES OF FIBER REINFORCED PLASTIC IN WET FGD AND POLLUTION**
Kevin Lambych, Business Manager, Ashland; Michael Stevens & Julie Santinelli

### E5. NOX CONTROL

**E5.1 VERY LOW FOOTPRINT NOX-50X SCRUBBING**
Session Sponsor & Co-chair - Robert Richardson, CEO, Know-Nox LLC

**E5.2 NOX CONTROL OPTIONS IN UTILITIES BOILERS THROUGH C SAFETY & REGIONAL HAZE RULES**
Co-chair - Guisui Liu, Business Manager, AECOM; Blake Stapper & Pat Crotty

**E5.3 DEC NOX: HOW TO REDUCE VOC & NOX USING ONE, INNOVATIVE TECHNOLOGY**
Holger Reinhold, Process Engineer Industrial Minerals, Schuech GmbH; Andreas Gangl

**E5.4 THE LATEST DEVELOPMENT OF DENOX SYSTEMS**
Christian Helmreich, Managing Director, M.A.L. Umwelttechnik GmbH; Mr. Xavier D’Hubert

**E5.5 INTRODUCING THE NEW ULTRA LOW NOX CORNER FRED M-PM BURNER**
Nathan Hart, Product Manager, Mitsubishi Hitachi Power Systems Americas

**E5.6 REMOVING NOX WITH CATALYTIC CERAMIC FILTERS**
Rod Gravley, Technology Director, Tri-Mer Corporation

### E6. SCR

**E6.1 SCR HIGHT PERFORMANCE MIXING & FIELD EXPERIENCE W/ COAL-FIRED BOILER**
Co-chair - Paulo Oliveira, Marketing Manager, Alstom Power; Piagii, Spagnolo & Czamecki

**E6.2 APPLYING COLD-SIDE SCR ON BIOMASS FIRED CFB BOILER**
Co-chair - Kevin Dougherty, Fuel Tech, Inc.; Reid Thomas

**E6.3 DESIGN & CONSTRUCTION CHALLENGES OF CONEBAUGH SCR RETROFIT PROJECT**
Kunal Patel, Project Associate, Sargent & Lundy; Charles Nelson & Michelle M. Atto

**E6.4 KEEPING THE SCR RTT**
Peter Harrison, Sales Manager, STEAG SCR-Tech Inc.

**E6.5 EXHAUST GAS PURIFICATION SCR CONTROL SYSTEMS - ULTRA LOW EMISSIONS**
David Bonner, Sr Project Engineer - Stationary Applications, Hug Engineering Inc.

**E6.6 HOT SCR SYSTEMS FOR LARGE FRAME SIMPLE CYCLE GAS TURBINES**
Robert McGinty, Sr. Product Manager, Mitsubishi Hitachi Power Systems Americas, Inc
E7. REMEDIATION

E7.1 PATHWAY FROM DIRTY ENERGY REMEDIATION TO THE ULTIMATE ENERGY SOURCE
Co-chair - Ann McIver, Director, Citizens Energy Group; Peter Schubert

E7.2 NANOMECANICS OF NON-BIOLOGICAL MODEL SYST- CELL INJURY BY NANOPARTICLES
Tooba Shoaib, Graduate Student, University of Illinois; He, Chen, Nalam & Espinosa-Marzal

E7.3 PUSH-PULL METHOD REMEDIATION OF PETRO. CONTAMINATED SOIL & GROUNDWATER
Co-chair - George Ivey, President & Senior Remediation Specialist, Ivey International Inc.

E7.4 INDUSTRY IMPACT OF THE 2015 EPA UNDERGROUND STORAGE TANK REGULATIONS
Timothy Ericson, Executive Vice President, Tait Environmental Services, Inc.

E8. COMPLIANCE TECHNOLOGIES & STRATEGIES

E8.1 COMPLIANCE WITH NEW REGULATIONS FOR COAL COMBUSTION RESIDUALS
Travis Smith, Senior Chemical Engineer, Hull & Associates, Inc.

E8.2 REGULATORY CHANGE MANAGEMENT
Co-chair - Bobby O'Neal, Director, EHS/ Energy & Utilities, 360factors, Inc.

E8.3 WORD MASTER CLASS
David Cornwell, CEO, PleaseTech Ltd; Barry Lyne

E8.4 REGULATION & USE OF UNMANNED AERIAL SYSTEMS (DROINES) IN UTILITY INDUSTRY
Kelly Daly, Partner, Stinson Leonard Street

E8.5 GROWING YOUR BUSINESS IN WITH NEW AVIATION TECHNOLOGY AND DRONES
Co-chair - Jonathan Rupprecht, Attorney/Aviation Expert, Rupprecht Law

F1. RENEWABLE ENERGY MARKETS

F1.1 WESTINGHOUSE PLASMA GASIFICATION FOR POWER, FUELS AND CHEMICALS
Co-chair - Richard Fish, President, Westinghouse Plasma Corp.

F1.2 PREDICTING RENEWABLES TARGET PERFORMANCE IN EMERGING MARKET
Thaddeus Huetteman, O.R. Analyst, U.S. EIA; Michelle Bowman

F1.3 GENERATING CLEAN POWER AND PROFITS
Willem Lange, Director - Utility Marketing, WaterFurnace International, Inc.

F1.4 CAN HAWAII ACHIEVE ITS RPS?
Co-chair - Fred Mayes, Senior Energy Analyst, U.S. Energy Information Administration

F8. WASTE TO ENERGY

F8.1 AN UPDATE ON RENEWABLE ENERGY FROM MUNICIPAL WASTES
Paul Hauck, Sr. Environmental Engineer, CDM Smith

F8.2 WASTE PLASTIC TO LIQUID HYDROCARBON FUEL
Co-chair - Dr. Moinuddin Sarker, PhD, MRSC, CEO and CTO, Waste Technologies LLC

F8.3 MICROALGAE GHG CO2 & NOX MITIGATION - CCS ECONOMIC DRIVER
Ed Weinberg, President, ESSRE Consulting, Inc.; Robert Mroz, HYTEK-Bio, LLC

F8.4 CLIMATE-FRIENDLY WASTE SYSTEMS: BEYOND “WASTE-TO-ENERGY” INCINERATION AND TRADITIONAL LANDFILLS
Mike Ewall, Esq., Founder & Director, Energy Justice Network

F8.5 WHY BIOMASS? STATUS, CHALLENGES & OPPORTUNITIES IN SMUD REGION
Co-chair - Valentino Tiangco, Biomass Program Manager, SMUD

F8.6 GASIFICATION HYBRID DEVELOPED FOR THE PRODUCTION OF RENEWABLE HYDROGEN
Mike Hart, CEO, Sierra Energy; Daniel Dodd & Jessica Hazard

F3. RENEWABLE DEVELOPMENT ANALYSIS

F3.1 TRANSFORMATION IN THE US GENERATING FLEET: MORE THAN MEETS THE EYE
Daniel Mussatti, Sr. Env. Economist, US Nuclear Regulatory Commission; Andrew Kugler

F3.2 CALIFORNIA GREENHOUSE GAS REDUCTION AND RENEWABLE DEVELOPMENT
Co-chair - Shawn Bailey, Manager Market & Regulatory Analysis, Sempra US Gas & Power

F3.3 ENERGY ASSESSMENTS/ ENERGY MANAGEMENT SYSTEMS
Daniel Drott, Director of Business Development for Energy, Intertek

F3.4 REPLACING FOSSIL FUELS WITH SOLAR ENERGY FROM SPACE
Keith Henson, Founder, LS Society

F3.5 RENEWABLE ENERGY MARKET: HYDROGEN TRANSPORTATION FUEL FROM WIND + SUN
Co-chair - Bill Leighty, Director, The Leighty Foundation
F4. RENEWABLE PROJECT DEVELOPMENT

F4.1 THE POTENTIAL FOR LONGER TENURE FINANCING FOR SOLAR POWER PROJECTS
Jason Miller, Marketing & Sales Manager, Coronal Group LLC; Edwin Feo

F4.2 INTEGRATING RENEWABLE ENERGY WATERS, SOLAR, WIND, & BIOFUELS WITH PHEVs
Catherine J.J. Demouros, CTO, Efficient Drivetrains Inc.; Andrew Frank

F4.3 A COLLABORATIVE APPROACH TO UTILITY SITING USING GIS
Jason Thoene, GIS Manager, ICF International

F4.4 BE PREPARED FOR THE EVER-CHANGING MARKET LANDSCAPE
Jason Miller, Marketing & Sales Manager, Coronal Group LLC; Edwin Feo

F4.5 THE ROLE OF THE INDEPENDENT ENGINEER IN RENEWABLE PROJECT DEVELOPMENT
Co-chair - William Stark, Vice President - Environmental Services, Leidos

F4.6 REDUCE PROJECT IMPLEMENTATION RISK - CAPITAL NERVE CENTER FOR RENEWABLES
Co-chair - Neil Gerber, Director of Strategy, Energy & Environment, IBM; Biren Gandhi

F5. SOLAR & WIND

F5.1 OVERCOMING OFFSHORE WIND CHALLENGES
Co-chair - Michael Ernst, Director - Federal Regulatory Affairs, Tetra Tech; Jennifer Daniels

F5.2 STORAGE & ENERGY MANAGEMENT SOLUTIONS AS THE NEW WAVE IN DISTRIBUTED GENERATION
Co-chair - Jason Miller, Marketing & Sales Manager, Coronal Group LLC; Edwin Feo

F5.3 NUSCALE POWER DIVERSE ENERGY PLATFORM (NUDEP)
Chris Colbert, Chief Strategy Officer, NuScale Power

F5.4 STRATEGIES FOR SOLAR INDUSTRY TO PENETRATE COMMERCIAL REAL ESTATE SPACE
Michael Manuel, Principal, Goldberg Kohn Ltd.

F6. SOLAR & PV

F6.1 A SUNNY FUTURE FOR UTILITY-SCALE SOLAR
Co-chair - John Finnigan, Lead Council, Environmental Defense Fund

F6.2 LIFE-CYCLE & ECONOMIC PERFORMANCE OF COMMERCIAL-SCALE SOLAR PV SYSTEMS
Co-chair - Vivian Xiaowei Liu, Postdoctoral Fellow, DRI; Hoekman, Robbins & Ross

F6.3 UTILITY-SCALE SOLAR PROJECT COST, PERFORMANCE, & PRICING TRENDS IN THE US
Joachim Seel, Sr. Research Assoc., Lawrence Berkeley National Laboratory; Mark Bolinger

F6.4 INTEGRATION LIMITS OF INVERTER-BASED PV UNITS IN MICROGRID & DISTRIBUTION SYSTEMS
Ric Austria, Executive Consultant, Pietta Consulting; Ketut Darmawan & Amin Najafrabadi

F6.5 FUGITIVE DUST MITIGATION AND MONITORING FOR PV SOLAR PLANTS IN THE DESERT
Robert Beckius, Systems Engineer, American Ecotech; Joe Palumbo & Andres Quijano

F7. COMMUNITY SOLAR

F7.1 THE BENEFITS OF COMMUNITY SOLAR FOR UTILITIES
Co-chair - Eric Steinhofer, VP - Business Dev., Clean Energy Collective; Bart Rupert

F7.2 EVOLUTION OF COMMUNITY SOLAR - MAXIMIZING THE BENEFITS
Co-chair - Becky Campbell, Community Solar Market Development, First Solar; Rex Steep

F7.3 IMPLEMENTATION OF SOLAR ENERGY IN HOT, HUMID, & DUSTY CONTEXT
Hisham Mortada, Professor, King Abdul Aziz University; Mohammed Kurdi

F7.4 ROOFTOP SOLAR IN HAWAII - A MICROCOSM OF THE FUTURE
Greg Odegard, Principal, GO Global Environmental

F8. RENEWABLE ENERGY & GEOTHERMAL

F8.1 USING SUPERCRITICAL CO2 FOR CLOSED-LOOP GEOTHERMAL POWER
Co-chair - Brian Higgins, CTO, GreenFire Energy

F8.2 GEOTHERMAL SUSTAINABILITY
Co-chair - Masoud Fathizadeh, Professor, Purdue University Calumet; Dr. G. A. Mansoori

F8.3 PREP OF CHEAP NiFe@C NANOPARTICLES FOR DSSC COUNTER-ELECTRODES
H. Paul Wang, Professor, National Cheng Kung U.; L.Chang, J. Wang, C. Jou & Y. Wei

F8.4 OPTIMUM PENETRATION OF GRID-CONNECTED RENEWABLE ENERGY GENERATION
Jin J.o, Assistant Professor, Illinois State University; Matt Alderman

F8.5 SUSTAINABILITY IS SIMPLICITY
Anupama Sharma, Professor, Maulana Azad National IT; Ar. Santosh Tewari

F8.6 ENERGY EFFICIENT URBAN PLANNING
Jagdish Singh, Associate Professor, Maulana Azad National Institute of Technology
**G1. DECOMMISSIONING OF POWER PLANTS**

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<td>Room 8</td>
<td>Wednesday</td>
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- **G1.1 DECOMMISSIONING, DEMOLITION & DECONTAMINATION (DDD) PROCESS**
  - Co-chair: Jeffrey Pope, Decommissioning & Demolition Services Mgr., Burns & McDonnell

- **G1.2 HOW TO MAXIMIZE SCRAP VALUES AS PART OF DECOMMISSIONING PROCESS**
  - Greg Menen, Director - Demolition Scrap Management, Rocky Mountain Recycling

- **G1.3 NUCLEAR WASTE STORAGE OPPORTUNITIES FOR DECOMMISSIONED POWER PLANTS**
  - Emily Lewis, AAAS Fellow, U.S. DOE, Office of Energy Policy & Sys. Analysis; Lara Pierpoint

**Room 8 | February 4 | 7:30AM - 9:30AM**

- **G1.4 DECOMMISSIONING SCALABILITY**
  - Co-chair: Richard Chinathan, Scientist S, CB&I; Daniel Davis, Ken Beard & Andrew Schaaf

- **G1.5 POWER PLANT RETIREMENT - GOALS AND STRATEGY’S**
  - Christopher Dowdell, Decommissioning and Demolition Manager, HDR Engineering

- **G1.6 RECLAIMING AND RECYCLING COAL FLY ASH FOR BENEFICIAL REUSE**
  - Bill Fedorka, Director, Engineering, The SEFA Group

**Wednesday | February 3 | 3:30PM - 5:30PM**

- **G2. COMPLIANCE STRATEGIES & PLANT CONVERSIONS**

  **G2.1 FORMER MANUFACTURED GAS PLANTS (MGP): LEGACIES FROM LAST TWO CENTURIES**
  - Kevin White, Environmental Engineer, Bums & McDonnell Engineering Company, Inc.

  **G2.2 BIOCONVERSION OF COAL & GAS FIRED POWER STATIONS**
  - Preben Messenscheidt, Project Director, Ramboll Environ

  **G2.3 REPURPOSING POWER PLANT CHIMNEYS FOR CLEAN RENEWABLE ENERGY**
  - Thomas Farber, Division Manager, Commonwealth Dynamics, Inc.; Jose Franco

  **G2.4 ENVIRONMENTAL MANAGEMENT SYSTEMS & ISO-14001 CERT. FOR SMALL UTILITIES**
  - Co-chair: Erik Hasa, Principal, HMH Consulting LLC; Tom Chappell

  **G2.5 CCR & ELG: DEVELOPING A SIMULTANEOUS COMPLIANCE STRATEGY**
  - Co-chair: Jonathan Shinko, Director, Power & Water Solutions, Tetra Tech, Inc.

  **G2.6 EASE OF COMPLIANCE THROUGH DOCUMENT MANAGEMENT**
  - Mark Buckley, President & CEO, Requordit Inc.

**Thursday | February 4 | 7:30AM - 9:30AM**

- **G3. POWER PLANT & BOILER OPTIMIZATION**

  **G3.1 POWER PLANT FUEL TREATMENT TECHNOLOGIES**
  - Co-chair: Chris Wedig, Senior Technology Specialist - AQCS, CB&I

  **G3.2 ENGINEERING ANALYSIS PATENTED MULTISTAGE EVAPORATIVE COOLING SYSTEM**
  - Co-chair: Dr. Darrell Richardson, CED, R Ventures LLC; Mike Reyblat

  **G3.3 OPTIMISING FUEL FLOW IN PULVERISED COAL & BIOMASS-FIRED BOILERS**
  - Malgorzata (Maggie) Wiatros-Motyka, Analyst & Author, IEA Clean Coal Centre

  **G3.4 NEW SIDE STREAM FILTRATION TECHNOLOGY WILL REVOLUTIONIZE THE INDUSTRY**
**G7. OPERATIONS & MANAGEMENT**

**G7.1 INTERNET OF FACILITIES - SMART CAMPUS INITIATIVE AT ARGONNE NATIONAL LAB**  
Dejan Ristic, Energy/Pressure Systems Engineer, Gr. Leader, Argonne National Laboratory

**G7.2 CHANGE CULTURE & ACHIEVE ENERGY MANAGEMENT SUCCESS IN HEALTHCARE**  
Co-chair - Kim Hughes, Senior Initiative Manager, Northwest Energy Efficiency Alliance

**G7.3 INTERNET OF THINGS: CONVERGENCE OF BIG DATA**  
Co-chair - Phil Carroll, Vice President, Finley Engineering Company, Inc.

**G7.4 PORTFOLIO O&M: ONE PLANT, FLEET BENEFITS**  
Douglas Machon, Director - Business Development, NAES Corporation

**G7.5 STAKEHOLDER OUTREACH AND THE ROLE IT PLAYS**  
Loren Locher, Director of Public Affairs, TRC Companies, Inc.

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**G8. O&M**

**G8.1 CULTIVATING THE UTILITY WORKING ENVIRONMENT**  
Kevin Smith, Senior Consultant, Ephektiv

**G8.2 ELECTRIC UTILITY RATE STUDIES WITH PUBLIC INVOLVEMENT**  
Co-chair - Chris Deffenbaugh, Public Involvement Specialist, Burns & McDonnell; Ted Kelly

**G8.3 POSITIVE ENERGY: ACQUIRING & RETAINING CUSTOMERS THE RIGHT WAY**  
Co-chair - Derek Dressler, Senior Vice President of Sales, Virtual Incentives

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**H1. CLIMATE CHANGE & GHG**

**H1.1 ADDRESSING CLIMATE CHANGE UNDER THE NEW CEQ GUIDELINES**  
Co-chair - Bruce Macdonald, Principal Scientist, SLR International Corporation

**H1.2 BIRDS, CLIMATE CHANGE AND POWERLINES**  
David Lee, Senior Biologist, Davey Resource Group

**H1.3 FUNDING AFRICAN POWER INFRASTRUCTURE, CLIMATE CHANGE & US CARBON TAX**  
Co-chair - Stephen Sewalk, Burns School of Real Estate & Construction; Lydia Patton

**H1.4 ELECTRIC POWER GENERATION GHG MEASUREMENT PROTOCOL REVISION**  
Colin High, Co-Founder and Principal Consultant, RSG

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**H2. POST COP21 & INVENTORIES**

**H2.1 SUSTAINABLE PATENT STRATEGIES**  
Co-chair - Michael Messinger, Director, Sterne Kessler

**H2.2 CARBON EMISSIONS REPORTING: IMPACT FOLLOWING CPP & COP21**  
Co-chair - Hari Gupta, Director, Coriolis Enterprises, Inc.

**H2.3 PRIVATE SECTOR OPPORTUNITIES & PARTICIPATION UNDER THE PARIS AGREEMENT**  
Douglas Marett, Head of Energy & Environment, Grue + Hornstrup

**H2.4 ENERGY, ENVIRONMENT, AND COMMUNITIES: LOCAL & GLOBAL CLIMATE GOALS**  
Deidre Sanders, Environmental Justice Manager, Pacific Gas & Electric Company

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**H3. ELG - UTILITY PERSPECTIVE**

**H3.1 ELG COMPLIANCE STRATEGIES FOR UTILITIES**  
Patricia Scroggin, Sr. Water/Wastewater Treatment Consultant, Burns & McDonnell

**H3.2 IMPLEMENTATION OF THE ELG RULE**  
Jared Morrison, Manager - Water & Wastewater Programs, Westar Energy

**H3.3 COMPLIANCE ISSUES ASSOCIATED WITH IMPLEMENTATION OF THE ELG RULE**  
Gerald Butcher, Sr. Environmental Coordinator, Western Farmers Electric Cooperative

**H3.4 ELG & OTHER RULES EFFECT ON THE GENERATION FLEET**  
Block Andrews, Director of Strategic Environmental Solutions, Burns & McDonnell

**H3.5 COMPLIANCE ISSUES ASSOCIATED WITH IMPLEMENTATION OF THE ELG RULE**  
Jerry Purvis, Environmental Affairs Manager, East Kentucky Power Cooperative

**H3.6 COMPLIANCE ISSUES ASSOCIATED WITH IMPLEMENTATION OF THE ELG RULE**  
Maggie Skelton, Chemical Engineer - Boswell Station, Minnesota Power
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<td><strong>H4. CCR &amp; ELG COMPLIANCE MGMT.</strong></td>
<td>Burns &amp; McDonnell</td>
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<td>H4.1 CCR COMPLIANCE - ALTERNATIVE CLOSURE SCHEMES?</td>
<td>Jason Eichenberger, Sr. Civil Engineer, Burns &amp; McDonnell; Block Andrews; Jay Holloway</td>
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<td>H4.2 ASH CONTAINMENT STRUCTURES: ENG. TO COMPLY WITH U.S. EPA'S NEW CCR RULE</td>
<td>David Lutz, Vice President, NTH Consultants, Ltd.; Brod Yerman</td>
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<td>H4.3 U.S. EPA'S FINAL CCR RULE EXISTING ASH PONDS CLOSE IN PLACE OR LEAN CLOSURE</td>
<td>Douglas Dahlberg, Project Engineer, Sargent &amp; Lundy; James Pery</td>
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<td>H4.4 CCR RULE COMPLIANCE &amp; CCR MANAGEMENT STRATEGY CONSIDERATIONS</td>
<td>Paul Caprio, VP, EA Engineering, Science, and Technology, Inc., PBC; Richard Wateman</td>
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<td>H4.5 CCR AND ELG COMPLIANCE STRATEGIES</td>
<td>Session Sponsor &amp; Co-chair - Michael Preston, CEE Section Leader, Black &amp; Veatch</td>
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<td>H4.6 CCR STABILIZATION FOR IMPOUNDMENT CLOSURE</td>
<td>Co-chair - John Heesemann, Department Manager, Burns &amp; McDonnell; Jeffrey Pope</td>
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<td><strong>H5. CCR &amp; ELG</strong></td>
<td>Burns &amp; McDonnell</td>
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<td>H5.1 LIFE CYCLE ANALYSIS OF CO-FORMED COAL/HYDROCHAR BRIQUETTES</td>
<td>S. Kent Hoekman, Research Professor, DRI; X. Liu, DRI; L. Felix &amp; W. Farthing, GTI</td>
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<td>H5.2 COMPLIANCE COSTS FOR THE FEDERALLY PROMULGATED CCR AND ELG</td>
<td>Patricia Scroggin, Section Manager - Process, Burns &amp; McDonnell Engineering Company</td>
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<td>H5.3 CCR LANDFILL CONSTRUCTION &amp; OPERATION UNDER SUBTITLE D</td>
<td>Co-chair - Thomas Gredell, President, GREDELL Engineering Resources, Inc.</td>
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<td>H5.4 KLEENWATER-ADVANCED I-PRO FOR ELG COMP. POND CLOSURES &amp; WATER RE-USE</td>
<td>Mark Pastore, VP Technology, EES, Inc.; David Martin, ProChem, Inc.</td>
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<td>H5.5 “BRAVE NEW WORLD”: CCR RULE COMPLIANCE STRATEGIES FOR ELECTRIC UTILITIES</td>
<td>Co-chair - Steven Patrich, VP Engineering, Haley &amp; Aldrich; McDaniels &amp; Pokomy</td>
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<td>H5.6 RECLAIMING AND RECYCLING COAL/FLY ASH FOR BENEFICIAL REUSE</td>
<td>Bill Fedorka, Director, Engineering, The SEFA Group</td>
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<td><strong>H6. COALASH &amp; FGD</strong></td>
<td>SCS Engineers</td>
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<td>H6.1 COALASH MANAGEMENT LEGAL, REGULATORY AND INDUSTRY UPDATE</td>
<td>Mike McLaughlin, Senior Vice President, SCS Engineers; May Wall, Winston &amp; Strawn LLP</td>
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<td>H6.2 GEOTECHNICAL &amp; ENV. STABILIZATION OF PONDED FLY ASH USING CAO</td>
<td>Co-chair - Michael Schantz, Director - NBD, Lhoist North America; Nancy Cardona, UNC Charlotte</td>
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<td>H6.3 DENSE SLURRY ASH MGMT: PROCESS EFFICIENCY &amp; ENV. PERFORMANCE</td>
<td>Session Sponsor &amp; Co-chair - Dale Timmons, Program Manager, NAES Corporation</td>
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<td>H6.4 CEMENT PRODUCTS FOR SOLIDIFICATION/STABILIZATION OF CONTAMINATED SOIL</td>
<td>Paul Ruehl, Solidification/Stabilization Specialist, Lafarge North America</td>
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<td>H6.5 METALS ANALYSIS FOR FGD WASTEWATERS AND COAL COMBUSTION RESIDUALS</td>
<td>Richard Burrows, Corporate Technical Director, TestAmerica Inc.</td>
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<td>H6.6 EXPERIENCE WITH FLUE GAS DESENSITIZATION, ZERO LIQUID DISCHARGE (FGD-ZLD)</td>
<td>Patrick Randall, Sales Director, Aquatech; J. Michael Marlett</td>
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<td><strong>H7. CCS: CARBON CAPTURE &amp; STORAGE</strong></td>
<td>Gasmet</td>
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<td>H7.1 FTIR PROVIDES TIGHTER CONTROL ON EMISSIONS FROM CARBON CAPTURE PROCESS</td>
<td>Jim Comish, Sales &amp; Support Manager, Gasmet Technologies</td>
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<td>H7.2 EARLY CCS OPPORTUNITIES: COAL TO LIQUIDS VIA FISCHER-TROPSCH SYNTHESIS</td>
<td>Co-chair - Thomas Tarka, NETL/U.S. DOE; Summers, NETL/DOE; Turner, ESP; White, Noblis</td>
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<td>H7.3 WA. PARISH POST-COMBUSTION CO2 CAPTURE AND SEQUESTRATION PROJECT</td>
<td>Co-chair - Ted McMahon, Project Mgr., U.S. DOE; Tony Amprister &amp; Petra Nova</td>
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<td>H7.4 CURRENT STATUS OF CO2 CAPTURE TECHNOLOGY DEVELOPMENT IN KEPKO</td>
<td>Jeom-In Baek, Sr. Researcher, KEPKO; Eom, Lee, Jo, Jegarl &amp; Shim, KEPKO; Yi &amp; Ryu, KIER</td>
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<td><strong>H8. CCS II</strong></td>
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<td>H8.1 CO2 ABSORPTION KINETICS STUDY IN PHYSICAL SOLVENTS AND MIXTURE</td>
<td>Co-Chair - Fan Shi, Sr. Materials Scientist, NETL/AECOM; Nicholas Siefert &amp; David Hopkinson</td>
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<td>H8.2 ON-LINE AEROSOL MEASUREMENTS FROM COAL FIRED FLUE GAS IN PILOT SCALE POST-COMBUSTION CO2 CAPTURE</td>
<td>Co-Chair - Chiranjib Saha, Adv. Eng., Southern Research National Carbon Capture Center; J. Irvin</td>
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<td>H8.3 CO2 HYDRATE FORMATION AND LCC ANALYSIS FOR COOLING APPLICATION</td>
<td>Shol Kim, Graduate Student, Korea University; Yong Tae Kang</td>
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| **Friday | February 5 | 1PM - 3PM |**
1. **WASTEWATER MANAGEMENT**

   1.1 Reactor Vessels to Manage & Treat Wastewater at Ash Ponds & Landfills  
   Mark Kropilak, CEO, Liberty Hydro, Inc.

   1.2 Energy Neutrality in Wastewater Treatment  
   Tom Stanley, CTO, GE Water & Process Technologies, GE Power & Water

   1.3 Minimizing Water Footprint by Implementing Semi-Batch Reverse Osmosis  
   Session Sponsor & Co-chair - Dr. Rick Sower, EVP, Desalitech

   1.4 ELG Compliance at Coal-Fired Power Stations  
   Session Sponsor & Co-chair - Michael Preston, Section Leader, Black & Veatch

   1.5 National Nutrient Reduction Strategy Update  
   Diane Martini, Senior Water/Wastewater Consultant, Burns & McDonnell; Sarah Gilstrap

   1.6 An Update on the Water Research Center  
   Tyler Cromey, Research Engineer, Southern Company Services, Inc.

2. **WATER & ELECTRIC UTILITIES**

   12.1 Modeling Electricity Sector Vulnerabilities Related to Water Temperatures  
   Jordan Macknick, NREL; Macknick, Brinkman, Ilanoz, Tomberlin, Hunsberger, Kandti & Miara

   12.2 The Latest Technological Updates in Oil Spill Containment Systems  
   Bill Gannon, President, Solidification Products International, Inc.; John Panaro

   12.3 Energy Savings Through Pipe Selection  
   Rosemary Smud, Sales Engineer, American Cast Iron Pipe; Maury Gaston

   12.4 Enhance Coordination Between Electric and Water Utilities  
   Nushat Thomas, Team Leader, U.S. Environmental Protection Agency; Lauren Wisniewski

   12.5 BR Risk Mgmt: Predictive Modeling Development for Disinfection Byproducts  
   Co-chair - Blain Maslin, Senior Consultant, Parsons

   12.6 SCE Storm Water Mgmt & Flood Preparedness Improvement Initiative  
   Co-chair - Denise Yaffe, Mgr., Southern California Edison; Lounas, Barr, Akur Yah & Johnson

3. **316(b)**

   13.1 EPA’s 316B Rule: How to Achieve Compliance  
   Greg Seegert, Chief Ichthyologist, EA Engineering, Science & Technology

   13.2 Impacts of EPA 316(b) on Power Plant Cooling Water Intakes  
   Roman Carter, National Account Manager, Intralox / Hydrolox; Tim Woodrow

   13.3 Clean Water Act Rule: Expanding Risk & Liability for Project Proponents  
   Kerry McGrath, Associate, Hunton & Williams; Deidre G. Duncan

   13.4 316(b) Implementation Compliance: Understanding De Minimis  
   Session Sponsor & Co-chair - Radhika de Silva, Sr. Project Mgr, HDR Engineering; Mark Bailey

   13.5 316(b) - Overview of Technical Feasibility and Cost Evaluation Study  
   Joy Rooney, Senior Associate, Sargent & Lundy LLC; Ken Snell & Mehrdad Salehi

   13.6 Implementing U.S. EPA’s 316(b) Rule  
   Co-chair - Sean Ramach, Environmental Scientist, U.S. Environmental Protection Agency
I4. FGD WASTEWATER - ZLD

14.1 ZLD APPROACH BY APPLYING SPRAY DRYER EVAPORATOR (SDE™) TECHNOLOGY
Co-chair - Paulo Oliveira, Product Marketing Manager, Alston Power, Inc.; Phil Rader

14.2 THERMAL ZLD SYSTEM USING A SDE IN A WASTE TO ENERGY PLANT
Robert Van Dumme, P.E., Key Account Manager, Lechler Inc.; Ashwin Patni

14.3 FGD ZLD PROCESS IMPACT ON HEAT RATE & OTHER PLANT PARAMETERS
Benjamin Laurent, Senior Process Engineer, Heartland Technology Partners

14.4 PROCESSING POWER PLANT WASTE TO HIGH MARKETABLE COMMODITIES
Robert Bobeck, Technical Sales, Dustex LLC; Patrick Paul

14.5 UPDATE ON B&W ZLD ACTIVITIES
Steven Feeney, Product Line Manager, Babcock & Wilcox Mike Kidas

14.6 FORWARD OSMOSIS BASED HIGH WATER RECOVERY SOLUTIONS
Session Sponsor & Co-chair - MaryTheessa Pendergast, Director, Oasys Water; John Tracy

I5. FGD WASTEWATER

15.1 PRE-FABRICATED PROCESS EQUIPMENT SOLUTION TO MEET ELG & CCR STANDARDS
Co-chair - James Peterson, President, Frontier Water Systems

15.2 EFFECTS OF MERCURY CONTROL TECHNOLOGIES ON FGD WASTEWATER QUALITY
Mandi Richardson, Sr. Chemist, AECOM; Bythe, AECOM; Dene, EPRI; Acharya, Southern Co.

15.3 ELG AND CCR COMPLIANCE - THE DOLLARS ARE IN THE DETAILS
Dennis Fink, Senior Project Manager, CH2M; Dr. Thomas E. Higgins

15.4 ELG COMPLIANCE SOLUTIONS - AN IN-DEPTH LOOK AT FGD FLOW RATE IMPACTS
Jeremy Jones, AQC5S Manager, Bums & McDonnell

15.5 RECENT ADVANCES IN WASTEWATER MEASUREMENTS OF HG, AS AND SE USING APS
Co-chair - Warren Combs, R&D Manager, PS Analytical; Comelius Bommach

15.6 EFFECTS OF OPERATING CONDITIONS OF FGD UNIT ON FORM OF SELENIUM IN LIQUOR
Hiroyuki Akiho, Research Scientist, CRIEPI; Naoki Noda, Hiromi Shirai & Shigeo Ito

I6. ELG, WASTEWATER

16.1 APPROACHES TO ELG COMPLIANCE FOR FGD WASTE WATERS
Kristen Bell, Senior Associate, Sargent &Lundy

16.2 GREEN ALTERNATIVES FOR WATER SUPPLY DEVELOPMENT
Henry Hunt, Sr. Project Manager, Layne - Ranney Collector Wells

16.3 CONTROL OF DREISSENID MUSSELS WITH A MORE RATIONAL USE OF COPPER
David Hammond, Ph.D., Senior Scientist, Earth Science Labs, Inc.

16.4 COMPLIANCE WITH BOTH 316(B) AND THE ENDANGERED SPECIES ACT
Harriet Nash, NOAA’s National Marine Fisheries Service; Ashfield, U.S. Fish & Wildlife Svc.

16.5 316(B) STRATEGIES FOR ADVANCED INTAKE SCREEN RETROFITS
Co-chair - Mark David Bell, Sales Manager, Billfinger Water Technologies

16.6 316(B) OVERVIEW OF IMPACTEMENT TECHNOLOGY SELECTION PROCEDURE
Co-chair - Mehrdad Salehi, Sr. Associate, Sargent & Lundy LLC; Ken Snell & Joy Rooney

I7. WATER SUSTAINABILITY

17.1 THE ENERGY-WATER NEXUS: RESILIENT, SUSTAINABLE COMMUNITIES AND CHP
Co-chair - Scott Hutchins, Stakeholder Engagement, U. S. Department of Energy

17.2 WATER BALANCE ANALYSIS, MONITORING, & MGMT. TOOL FOR POWER PLANTS
Charlie He, Assoc. VP, Carollo Engineers; E. McLeskey, G. Carpenter, J. Dresang & C. Chiou

17.3 SUPPORTING THE HEART OF THE WATER - ENERGY - FOOD NEXUS
Maury Gaston, Manager of Marketing Services, American Cast Iron pipe

17.4 MONETIZING WATER EFFICIENCY - THE RESNET WATER EFFICIENCY RATING INDEX
Co-chair - Steve Baden, Executive Director, RESNET

17.5 PREVENTIVE SAFETY MEASURE FROM POLLUTED SURFACE WATER LEAKAGE IN BLDGS
Nasser Alhemiddi, Professor, King Saud U.; A. Alhemiddi, M. Arch. & A. Alhemiddi, B. Arch

17.6 WATER REUSE FOLLOWING GROUNDWATER EXTRACTION & TREATMENT
Maury Gaston, Manager of Marketing Services, American Cast Iron Pipe; John Wilson

I8. WATER SUPPLY & SECURITY

18.1 A SOLUTION TO OUR WATER SUPPLY PROBLEM
Maury Gaston, Manager - Marketing Services, American Cast Iron Pipe, John Wilson

18.2 DREDGING YOUR RESERVOIR: ENHANCING THE RESILIENCY OF YOUR WATER SUPPLY
Co-chair - Kyle Mann, Energy Efficiency Program Specialist, CA State University Fullerton

18.3 AN INNOVATIVE SOLUTION TO PREDICTION WATER MODELING FOR UTILITIES SECTOR
Kerr Cygan, Director, Nalco, an Ecolab Company; April YeYoung Yi

18.4 WEANING OURSELVES FROM OUR WASTEFUL WATER WAYS
Ned Daugherty, Principal Architect, H2O Futures

18.5 ENGAGING A UNIVERSITY ON WATER CONSERVATION
Co-chair - Sarah Howard, Sr. Scientist, Black & Veatch; Elizabeth Quinlan

18.6 GIS FORECASTED SURFACE HYDROLOGY FOR REDUCING RISKS OF FOOD PRODUCTION
Abdrabelnabi Abdelhady, Professor, Damanhour Univ; Aggag, Abdelaty & Bahnassy

Thursday | February 4 | 3:30PM - 5:20PM

Friday | February 5 | 10AM - 12PM

Thursday | February 4 | 1PM - 3PM

Friday | February 5 | 7:30AM - 9:30AM

Thursday | February 4 | 3:30PM - 5:50PM

Friday | February 5 | 10AM - 12PM
J1. FLEET

J1.1 A CLIMATE-STABILIZING CALIFORNIA FLEET, VERSUS AIR RESOURCE BOARD GOALS
Co-chair - Michael Bullock, Transportation Committee Chair, Sierra Club

J1.2 HOW CITY FLEETS CAN BECOME A CATALYST FOR A NATIONAL EV TRANSIT
Amy Lopez, Director of Corporate Engagement, Electrification Coalition

J1.3 MAKING FLEETTELEMETRICS DATA ACTIONABLE AND MATTER
Co-chair - Noma Havens, Co-National Sales Manager, USA Fleet Solutions; Bob Belknap

J1.4 COMING CHALLENGE TO US SUBURBA, GROWING CHINESE CAR FLEET
Alexandra Malazdrewicz, Burns School of Management; Stephen Sewalk & Lydia Patton

J2. EV, PHEV & CHARGING

J2.1 INTELLIGENT ELECTRIC VEHICLE CHARGING SYSTEM
Prateek Saxena, Director, Tech Mahindra

J2.2 COMPREHENSIVE EV FAST CHARGING SOLUTIONS FOR 21ST CENTURY UTILITIES
Co-chair - Paul Glenney, Director, Products & Services, NRG EVO; Michael Kauthamer

J2.3 ZERO-EMISSION VEHICLE MARKETS: DISADVANTAGED COMMUNITIES & CALIFORNIA
Brett Williams, Sr. Project Manager, EV Initiatives, CSE; John Anderson & Ria Langheim, CSE

J2.4 VEHICLE-GRID INTEGRATION USING ISO/IEC 15118 GLOBAL INTEROPERABILITY STANDARD
Brett Williams, Sr. Project Manager, EV Initiatives, CSE; John Anderson & Ria Langheim, CSE

J2.5 USING THE FLEET OF PHEVS FOR ENERGY STORAGE OF BOTH SOLAR AND WIND
Co-chair - Andrew Frank, CTO, Efficient Drivetrains Inc.; Andrew A. Frank & JJ DeMauro

J2.6 INFORMATION CHANNELS FOR REACHING PLUG-IN ELECTRIC VEHICLE CONSUMERS
Clair Johnson, Transparency Specialist; Center for Sustainable Energy; Brett Williams

J3. BATTERY & STORAGE SYSTEMS

J3.1 ACTIA EV SOLUTIONS
Co-chair - Greg Fritz, EV Business/Unit Manager, ACTIA Corp

J3.2 ENERGY STORAGE + EV CHARGING - DRIVING ELECTRIC VEHICLE ADOPTION
Vic Shao, CEO, Green Charge Networks; Anne Smith

J3.3 BUSTING MYTHS & BREAKING GROUND: VEHICLE TO GRID STORAGE FRONTIER
Co-chair - Scott Fisher, Director of EV to Grid, NRG EVO; Niki DeLeon

J3.4 IMPROVE FUEL CONSUMPTION WITH ENVIRONMENTAL FRIENDLY DLCAP
Toshikio Furukawa, Senior Manager/Engineer, United Chemi-Con

J4. BATTERY & STORAGE

J4.1 GRID-SCALE ENERGY STORAGE PROVIDING COST-EFFECTIVE PEAKING CAPACITY
Co-chair - Kate Mcginnis, Market Dev. Director, AES Energy Storage; Kitan Kumareshawary

J4.2 ENERGY STORAGE USED FOR FREQUENCY REGULATION & GRID FIRING
Co-chair - Paul B. Scott, VP Tech., Transpower; David Rosewater, Sandia Corporation

J4.3 LEGAL ISSUES AND OPPORTUNITIES FOR ENERGY STORAGE SYSTEM PROJECTS
Chris Locke, Farella Braun +Martell LLP; Steven Branon, Ramboll Environ, Inc.

J4.4 AN ADVANCED LEAD-AC ID BATTERY FOR INTEGRATION WITH RENEWABLE ENERGY
Farella Braun +Martell LLP; Steven Branon, Ramboll Environ, Inc.

J4.5 HIGH LEVELS OF RENEWABLES WITH GRID-SCALE COMPRESSED AIR ENERGY STORAGE
Co-chair - Dr. Rajshekar DasGupta, Vice President Technology, Electrovaya

J4.6 INTEGRATING DISTRIBUTED ENERGY: THE CRITICAL ROLE OF ENERGY STORAGE
Greg Odegard, Principal, GO Global Environmental

J5. BACK-UP PWR & THERMAL ENERGY STORAGE

J5.1 THERMAL ENERGY STORAGE - “VIRTUAL BATTERIES”
Co-chair - Guy Frankenfield, Manager - TES & Biofuels, DN Tanks

J5.2 BACK-UP POWER ADVANCED FUEL CELL TECH. PROTECTING 21ST CENTURY APPLICATIONS
Vito Coletto, Director of Sales, Altergy Systems

J5.3 HYDROGEN AS ENERGY STORAGE & FUEL FOR STEAM INJECTED GAS TURBINE PLANT
Co-chair - Joshua Parkeepan, Research Assistant, West Texas A&M University; William J. Rogers, West Texas A&M University; Edward Hinders, Paramount Energy West

J5.4 ANODE MATERIAL USING HIERARCHICAL MICRO-LAMELLA 3D POROUS CU CURRENT
Co-chair - Dr. Rajshekar DasGupta, Vice President Technology, Electrovaya

J5.5 VANADIUM REDOX FLOW BATTERIES - UTILITY AND DISTRIBUTED ENERGY VALUE
Matthew Maiers, Business Development - North America, GILDEMEISTER energy storage

J6. UPS, FLOW & LI-ION BATTERIES

J6.1 DEVELOPMENT OF LITHIUM ION BATTERY MATERIALS FOR GRID APPLICATIONS
Co-chair - Dee Stand, Chief Scientific Officer, Wildcat Discovery Technologies; Ye Zhu

J6.2 FIRE SAFETY AWARENESS OF LITHIUM ION BATTERIES
Matt Durin, Principal, AECOM

J6.3 COST REDUCTIONS FOR LITHIUM ION BATTERIES THROUGH TECHNOLOGY
Co-chair - Dr. Rajeshkar DasGupta, Vice President Technology, Electrovaya

J6.4 BEYOND BATTERY MGMT: ENABLING ESS INTEGRATION IN GRID EC SYSTEMS
Michael Worry, President and CEO, Nuvation Engineering

J6.5 SEAWATER FLOW BATTERY FOR CLEAN COLD-IRONING & FLEET/VEHICLE FUELING
Peter Schubert, Professor, Indiana University-Purdue University Indianapolis

J6.6 SGIM ADVANCED BATTERIES
Pavel Bujai, CEO, SGIM; Boksha, Tompa, Zegenbalg, J. Swell, Chow, Foster, Hogan, Proctor, Salagaj, Rylov, Zavorotnyi, Saeed, AlDamer, Molchanov, Strukov, Golubeva & Pitlik
EXHIBIT BOOTH & SPEAKER PACKAGE ($5,000) (includes 10 Free Passes)
1. One 10’ x 10’ exhibit booth, 6’ table, 2 chairs, waste basket & carpet
2. One free speaker and exhibitor registration at EUEC 2016
3. Network with 2,000+ delegates at (8) receptions held in exhibit hall
4. Marketing through EnergyNews to mailing list of 50K Professionals
5. Pre and post conference attendee list
6. Exhibitor Advertisement in program, web, and newsletter
7. Ten (10) free EUEC client passes* (value $495/each)
(* Good for Companies & Delegates attending EUEC for the first time)

EXHIBIT SHOW HOURS
Tue. Setup 12 pm to 6 pm
Wed. Feb 3 7 am to 7 pm
Thur. Feb 4 7 am to 7 pm
Friday Feb 5 7 am to 12 pm
Breakdown 12 pm to 4 pm

NETWORK RECEPTIONS located in Exhibit Hall
AM Breaks 9:30 am to 10 am
Lunches 12 pm to 1 pm
PM Breaks 3 pm to 3:30 pm
Receptions 5 pm to 7 pm
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<td>599 VIM Technologies, Inc.</td>
<td>NAL</td>
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<td>495 Virtual Incentives</td>
<td>NAL</td>
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<tr>
<td>357 W.L. Gore &amp; Associates</td>
<td>NAL</td>
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<td>358 WaterFurnace International</td>
<td>NAL</td>
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<td>387 xOverTime</td>
<td>NAL</td>
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<tr>
<td>677 Yorke Engineering</td>
<td>NAL</td>
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<tr>
<td>Sponsorship</td>
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<tr>
<td>• You choose one of our exclusive packages or we can help you create one</td>
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<tr>
<td>• Create a package customized to fit your specific needs or desired investment level</td>
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<tr>
<td>• Sponsorship Program will help you focus directly on your target audience</td>
<td></td>
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<tr>
<td>• Provides maximum branding, recognition and return on investment</td>
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</tbody>
</table>

1. **One Page Advertisement in Show Guide - $1,000** *(Deadline Jan 5th)*
   - The Show Guide is the official, up-to-date information on the EUEC event. One page color advertisement distributed to 2,000 delegates, continuously referenced multiple times a day by all attendees. You can have your logo included or do two facing page ads.

2. **Session Sponsor & Company Logo Ad - $500 per session**
   - Sponsor a Technical Session that you are Co-chairing and speaking for only $500, with your company logo prominently advertised among the leading experts in the industry.

3. **Advertisement in ENERGYNews - $500 per issue (50,000 distribution)**
   - Leverage the EUEC network to reach 50,000 professionals in the energy utility and environment sector in North America. Place your logo and advertisement on ENERGYNews (linked to your website) announcing your new product, service or just your exhibit and speaking topics.

4. **Attendee Lanyard And Badge Holders - $3,000**
   - This package includes logo placement on lanyards of the attendee name badge holders.

5. **Golf Sponsor - $3,000**
   - Exclusive sponsorship of the 2015 EUEC golf tournament with recognition at the opening breakfast and closing awards luncheon. Includes two foursomes in the tournament, welcome banner at the course, tee signs and sponsor logo on the pairings form. A custom golf gift with company logo will be given to each player.

6. **Hotel Key Cards - $5,000**
   - Effectively place your business card in every attendee’s pocket. Four-color custom design imprinted on Hotel Key Cards distributed to all attendees staying at official show hotels.

7. **Your Logo On Flash Drive Conference Proceedings - $8,000**
   - What’s more important to the conference attendees after the event than the complete conference proceedings? This package allows maximum take-home exposure with your logo on the top of every credit-card type flash drive. A full electronic brochure advertisement of your company is included in the flash drive.

8. **Lunch / Reception Sponsorship - $5,000 - $15,000**
   - As a Network Reception sponsor you will have your name and logo in front of conference attendees on each meal ticket.

9. **Corporate Furnished Offices for client meetings - $1,500 (3-days)**
   - ($5,000 for non-exhibiting companies)
   - Exhibiting Companies can invite your clients, partners and business associates into a hardened private furnished office to conduct business. The private meeting rooms are located next to the exhibit hall. See floor plan. 10 x 10 offices are furnished with table and 4 chairs. Cost is $1,500 for three days of conference. Upgradable to size (10 x 20) with sofas and tables, with food, etc.
EUEC WELCOME RECEPTION BY THE WATERFRONT

Tuesday, February 2nd, 2016: 4 pm to 8 pm
Network with EUEC colleagues, clients & guests
RSVP for complimentary hors d’oeuvres and beverage tickets

ROY’S RESTAURANT BEHIND SAN DIEGO CONVENTION CENTER

HOTELS
- All Hotels located in Waterfront or Gaslamp District
- Walking distance to the Convention Center
- Reserve at https://compass.onpeak.com/e/66EUE16/4/hotels
- or call EUEC housing onPeak @ (855) 203-3367.

EUEC Golf Event

5TH ANNUAL EUEC 2016 GOLF TOURNAMENT
RANCHO BERNADO INN GOLF COURSE
17550 BERNARDO OAKS DRIVE SAN DIEGO, CA 92128
SATURDAY FEBRUARY 6TH, 2016 AT 8:00 AM
COST: $115
CALL GOLF COURSE TO RESERVE & PAY: (855) 574-5356

Warning
Beware of unauthorized phone solicitation.
Booking through onPeak or euec.com is the ONLY secure way to reserve.