Season's Greetings

Register by Dec. 31st & Save $600
Cost: $795 ($1,595 on site)

REGISTRATION COST INCLUDES:
- Open admissions to 600 technical presentations
- 2 networking lunches, 2 receptions, 7 coffee & snack breaks
- Network with 2,000+ delegates in exhibit area with 200 companies
- Resource book, attendee list & flash drive with 600 presentations

2,000 Delegates network in 200 company exhibit area

Enjoy Sunny 70° Weather in Phoenix, AZ

Register at euec.com and Save:

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EUEC Golf Tournament
Sunday, January 29th
$140 includes golf clubs & all fees

EUEC, PO Box 66076 Tucson, AZ 85728
(p) 520.615.3535  (f) 602.296.0199  info@euec.com  www.euec.com
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Who should attend?
INDUSTRY LEADERS AND POLICY MAKERS:
• CORPORATE ENERGY & SUSTAINABILITY EXECUTIVES
• RENEWABLE ENERGY ENTREPRENEURS
• BUSINESS DEVELOPMENT PROFESSIONALS
• UTILITY AND ENERGY EXECUTIVES
• LAWYERS, ACCOUNTANTS AND CONSULTANTS
• U.S. LEGISLATORS, GOVERNMENT AGENCIES
• SCIENTISTS AND RESEARCHERS

INVESTORS:
• COMMERCIAL & INVESTMENT BANKS
• VENTURE CAPITALISTS AND PRIVATE EQUITY
• CORPORATE AND INSTITUTIONAL INVESTORS
• DEAL LAWYERS AND CONSULTANTS
• PROJECT DEVELOPERS

DECISION MAKERS:
• ELECTRIC UTILITIES
• ELECTRIC VEHICLES
• ARCHITECTS/ENGINEERS/SCIENTISTS
• CO-GENERATORS/SELF-GENERATORS
• CNG (COMPRESSED NATURAL GAS)
• FUEL SUPPLIERS
• INDEPENDENT POWER PRODUCERS
• EQUIPMENT MANUFACTURERS
• POWER INDUSTRY CONSULTANTS
• DESIGNERS AND CONSULTANTS
• PROJECT DEVELOPERS
• RESEARCH AND DEVELOPMENT ORGANIZATIONS
• HUMAN RESOURCE MANAGERS AND RECRUITERS
• CONTINUOUS EMISSION MONITORS AND SPECIALISTS

Clean Tech Strategies for the Environment & Energy Security

Who Attended

Year Delegates
EUEC2011 1,830
EUEC2010 2,345
EUEC2009 1,783

- 19% Consulting
- 30% Energy & Electric Utilities
- 22% Emissions Monitoring
- 14% Renewable Energy
- 6% Government & Regulatory
- 6% Climate Policy
- 3% Finance / Legal

EUEC2012
15th Annual Energy, Utility & Environment Conference
USA’s Largest Professional Networking & Educational Event of its kind
Network with 2,000 delegates in 200 company exhibit area
with 9 networking lunches, receptions & breaks

600 Speakers make presentations in 12 track program

Clean Tech Strategies for the Environment & Energy Security
**Directors**

**U.S. DEPARTMENT OF ENERGY**

Mitchell Baer - Director, Office of Oil and Gas Analysis, U.S. Department of Energy

The Department of Energy’s overarching mission is to advance the national, economic, and energy security of the United States; to promote scientific and technological innovation in support of that mission; and to ensure the environmental cleanup of the national nuclear weapons complex.

---

**Conference Schedule**

**Sunday | January 29, 2012**

7:00 am - 7:00 pm  Registration
8:00 am - 12:00 pm  Technical Session - 3
12:00 pm - 7:00 pm  Exhibit Hall Open
12:00 pm - 7:00 pm  Networking Lunch - Exhibit Area
1:00 pm - 3:00 pm  Technical Session - 5
3:00 pm - 5:00 pm  Technical Session - 8
5:00 pm - 7:00 pm  Exhibit Hall - Open to Public
5:00 pm - 7:00 pm  Networking Reception - Exhibit Area

**Monday | January 30, 2012**

7:00 am - 7:00 pm  Registration
8:00 am - 12:00 pm  Technical Session - 4
12:00 pm - 12:00 pm  Pre-Conference Workshops
12:00 pm - 1:00 pm  Networking Lunch - Exhibit Area
1:00 pm - 3:00 pm  Technical Session - 1
3:00 pm - 5:00 pm  Technical Session - 2
5:00 pm - 7:00 pm  Exhibit Hall - Open to Public
5:00 pm - 7:00 pm  Networking Reception - Exhibit Area

**Tuesday | January 31, 2012**

7:30 am - 9:30 am  Technical Session - 3
9:00 am - 7:00 pm  Technical Session - 4
9:30 am - 10:00 am  Networking Break - Exhibit Area
10:30 am - 12:00 pm  Technical Session - 4
12:00 pm - 1:00 pm  Networking Lunch - Exhibit Area
1:00 pm - 3:00 pm  Technical Session - 5
3:00 pm - 5:00 pm  Technical Session - 6
5:00 pm - 7:00 pm  Exhibit Hall - Open to Public
5:00 pm - 7:00 pm  Networking Reception - Exhibit Area

**Wednesday | February 1, 2012**

7:30 am - 9:30 am  Technical Session - 7
9:00 am - 12:00 pm  Exhibit Hall Open
9:30 am - 10:00 am  Networking Break - Exhibit Area
10:00 am - 12:00 pm  Technical Session - 8
12:00 pm - 4:00 pm  Exhibit Tear-Down
1:00 pm - 3:00 pm  Technical Session - 9

---

**Exhibit Schedule**

**EXHIBIT SET UP**

Sunday Jan 29th 1 pm to 7 pm

**SHOW TIMES**

Mon. Jan 30th - 12 to 7 pm
Tue. Jan 31st - 9 am to 7 pm
Wed. Feb 1st - 9 am to 12 Noon

**EXHIBIT TEAR DOWN**

Wed. Feb 1st - 12 to 4 pm

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**Conference Overview**

Prabhu Dayal | Chairman | EUEC

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**EPA’s New Mercury & Air Toxics Standards (MATS) for Power Plants**

On December 21, the U.S. EPA announced standards to limit mercury, acid gases and other toxic pollution from power plants, including limits for HCl, SO2, PM and HAPs. The rules would affect approximately 1400 coal-fired and oil-fired power plants estimated to cost $10 billion. These rules were issued after 20 years of study and litigation, many of which were discussed by experts at past and the current EUEC conference. The keynote presentation by EPA’s Assistant Administrator Gina McCarthy is followed by our keynote panel of senior officials and industry executives and by experts in EUEC’s technical program with 3 of 12 tracks -- Tracks A, B, and C -- providing invaluable information on clean air rules, monitoring and control technologies, and strategies for mercury and air toxics.

EUEC provides an educational forum with 600 expert speakers in 12 tracks, and networking events in the exhibit hall to facilitate the collaboration between, Government, Industry and stakeholders for the protection of our environment and energy security.

---

**Keynote**

**Mercury and Air Toxics Standards for Power Plants**

Gina McCarthy | Assistant Administrator | U.S. EPA

**Natural Gas in America’s Clean Energy Economy**

Chris Smith | Deputy Assistant Secretary | U.S. DOE

**Regulatory Challenges, Technology Solutions**

Chris M. Hobson | Senior Vice President | Southern Company

**Impacts of Environmental Controls on the Generation Fleet**

Bryan Hannegan | Vice President | Electric Power Research Institute

**Development of North America’s Oil and Gas Resources**

Clay Bretches | Vice President | Anadarko Petroleum Corporation

**Natural Gas: A Clean, Low Carbon Alternative?**

Mark Brownstein | Chief Counsel | Environmental Defense Fund

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**EPA has been working for a cleaner, healthier environment for the American people.**

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**Energy Security.**

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**Prudential Development: Realizing the Potential of North America’s Abundant Natural Gas and Oil Resources**

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**Monday, January 30th, 8:00 AM - 11:00 AM**

Phoenix Convention Center | 100 N. 3rd St. | Phoenix, AZ 85004
### At-A-Glance

#### Clean Air Policy Monitoring & Modeling
- Multi-Pollutant Control
- Energy & Climate
- Wind, Solar & EV
- CCS & Carbon Mgmt.
- GHG Strategies
- Biofuels & Biomass
- Sustainability
- Energy Efficiency
- Renewable Energy
- Operations & Mgmt

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<td>Regulatory Update I</td>
<td>CEMS</td>
<td>Hg Control Demonstrations</td>
<td>Natural Gas &amp; Energy Policy</td>
<td>Corporate Strategies &amp; Risk Mgmt.</td>
<td>Carbon Footprint</td>
<td>Algae</td>
<td>Energy Sustainability</td>
<td>Energy Efficiency</td>
<td>Small Scale Renewable &amp; Electric Utilities</td>
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<td>Regulatory Update II</td>
<td>HCL Monitoring</td>
<td>Hg Control Demonstrations &amp; Bromine</td>
<td>Climate Policy &amp; Energy Sustainability</td>
<td>EV-PHEV, CPV &amp; Batteries</td>
<td>Carbon Management</td>
<td>Planning &amp; GHG Reporting</td>
<td>Biofuels / Ethanol</td>
<td>Sustainability Projects</td>
<td>Energy</td>
<td>Distributed Generation</td>
<td>Compliance Technologies &amp; Strategies</td>
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<td>NSR &amp; CAA I</td>
<td>Mercury Measurement</td>
<td>HAPs / MACT / TRI</td>
<td>US Climate Policy &amp; Analysis</td>
<td>Solar Projects &amp; Strategies</td>
<td>CCS</td>
<td>Corporate Strategies</td>
<td>Biomass II</td>
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<td>Energy Efficiency</td>
<td>Renewable Project Development</td>
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<td>NAAQS</td>
<td>Monitoring &amp; Reporting I</td>
<td>MATS &amp; Control Technologies</td>
<td>State &amp; Regional</td>
<td>Wind Development &amp; Siting</td>
<td>CCS Technologies II</td>
<td>GHG Permits</td>
<td>Landfill Gas to Energy</td>
<td>Water Sustainability II</td>
<td>Energy Conservation &amp; Storage</td>
<td>Solar, PV</td>
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<td>MACT Policy</td>
<td>Monitoring &amp; Reporting II</td>
<td>Dry Sorbent Injection</td>
<td>California Initiatives</td>
<td>BACT for GHG</td>
<td>Cofiring in Power Plants</td>
<td>Water &amp; Electric Utilities I</td>
<td>ASH / CCP</td>
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<td>Activated Carbon</td>
<td>Energy &amp; Climate</td>
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EUEC 2012 Format | All Speakers limited to 20 minutes using PowerPoint
Each session is 2 hours with 6 Speakers

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Preliminary Program (12-8) – Subject to Change
**A1. REGULATORY UPDATE I**

**A1.1 AIR QUALITY REGULATORY CHALLENGES FOR POWER PLANTS IN 2012**
- John Kinsman, Senior Director Environment, Edison Electric Institute

**A1.2 IS THAT THE LIGHT AT THE END OF THE TUNNEL OR THE TRAIN? -- GHG TAILORING RULE. CSAPR, EGU MACT, NEW NAAQS**
- Jay Holloway, Partner, Winston & Strawn LLP

**A1.3 TIMES UP: EPA COMPLIANCE DATES ARE FORCING DECISIONS ON COAL-FIRED POWER PLANTS**
- Block Andrews, Director of Strategic Environmental Solutions, Burns & McDonnell Engineering

**A1.4 UPDATE TO UNITS AT RISK FOR RETIREMENT IN PJM AS A RESULT OF EPA REGULATION**
- M. Gary Helm, Senior Market Strategist, PJM Interconnection; Paul Sołtysińcz

**A1.5 ADVENTURES IN PERMITTING - ESTABLISHING REASONABLE BACT/BART LIMITS**
- Steve Norfleet, Project Manager, RMB Consulting & Research, Inc.; Rob Barton

**A1.6 CLEAN AIR ACT ABACK - WHAT DOES THIS ALL MEAN?**
- Peter Belmonte, Senior Partner, Environmental Resources Management

**A2. REGULATORY UPDATE II**

**A2.1 COMPLIANCE CHALLENGES FOR POWER PLANTS: FEDERAL AND STATE MULTI- POLLUTANT REGULATIONS**
- Anand Yegnan, Sr. Project Manager, ERM; Dr. John Sherwell, Maryland DNR Power Plant Research Program; Julie Ross, ERM

**A2.2 EPA REGULATION OF THE ELECTRICITY SECTOR - THE SKY IS NOT FALLING**
- Donald Neal, Vice President - Environmental Health & Safety, Calpine

**A2.3 REGULATORY ANALYSIS OF POWER ISLAND OPTIONS FOR BIOREFINERIES**
- Lysa Modica, Senior Scientist, AMEC Environment & Infrastructure; Jeffery Harrington

**A2.4 ENVIRONMENTAL NUISANCE CLAIMS AND AIR QUALITY COMPLIANCE**
- Randy Brogdon, Partner - Environmental Practice Group Leader, Troutman Sanders LLP

**A2.5 DEVELOPING MULTI-AIR REGULATIONS COMPLIANCE SOLUTIONS**
- Ajay Kasarabada, Senior Air Permit Engineer, Black & Veatch Corporation

**A2.6 HOLISTIC APPROACHES TO ENVIRONMENTAL COMPLIANCE**
- Jeremy Timmons, Vice President of Engineering, Neundorfer Particulate Knowledge

**A3. CSAPR**

**A3.1 EPA CROSS-STATE AIR RULE: FEDERAL/STATE BREAKDOWN?**
- Dave Tripp, Partner, Stinson Morrison Hecker, LLP; Sarah Sullivan

**A3.2 CSAPR, HAPS MACT AND BEYOND**
- Steven Fine, Vice President, ICF International

**A3.3 THE TRANSPORT RULE - WHAT ARE THE REAL IMPACTS?**
- Kate Graf, Senior Consultant, GeoSyntec

**A3.4 UPDATE ON UTILITY SECTOR’S IMPLEMENTATION OF THE CROSS STATE AIR POLLUTION RULE**
- Daniel Chartier, Director - Environmental Markets & Air Quality Programs, EII

**A3.5 CSAPR AND MATS: WHAT DO THEY MEAN FOR ELECTRIC POWER PLANTS?**

**A3.6 CROSS-STATE AIR POLLUTION RULE - WINNERS AND LOSERS**
- Andy Byers, Associate VP Environmental Services, Black & Veatch Corporation; Brian O’Neal

**A4. NR & CAA I**

**A4.1 NSR: RECENT DEVELOPMENTS**
- Gary McCutchen, Principal, RTP Environmental Associates, Inc.; Colin Campbell & Gary (Gurinder) Saini

**A4.2 NSR: IMPACT OF THE GHG TAILORING RULE & UPDATE 2011 SETTLEMENTS**
- Elizabeth Williamson, Partner, Winston & Strawn LLP

**A4.3 INFORMATION REQUESTS UNDER THE CLEAN AIR ACT**
- Michael Schon, Associate, Baker Botts LLP

**A4.4 EMISSION ANALYSES FOR POLLUTION CONTROL PROJECTS: THE OTHER NSR POLLUTANTS & GHGCS**
- Sandra Ringelstetter, Vice President, NERA Economic Consulting

**A4.5 THE STATUS OF THE ROUTINE MAINTENANCE, REPAIR AND REPLACEMENT EXCLUSION**
- Wil DuBois, Special Counsel, Saul Ewing LLP

**A4.6 DEMONSTRATING BENEFITS SIGNIFICANTLY OUTWEIGH ENVIRONMENTAL & SOCIAL COSTS**
- Stephen Slocomb, Senior Consultant, Epsilon Associates

**A5. NR & CAA II**

**A5.1 THE NSR ENFORCEMENT INITIATIVE, MORE THAN A DECADE OLD & IT KEEPS GOING & GOING**
- Makram Jaber, Partner, Hunton & Williams LLP

**A5.2 RETROSPECTIVE EMISSIONS PROJECTIONS IN NSR LITIGATION: ANALYSIS & ISSUES**
- Marc Chupka, Principal, The Brattle Group

**A5.3 FEDERAL AND CITIZEN ENFORCEMENT OF PSD/NSR, STRATEGIES AND TACTICS**
- Karl Karg, Counsel, Latham & Watkins LLP

**A5.4 NSR ANALYSIS: EMPLOYING THE “COULD HAVE ACCOMMODATED” EXCLUSION**
- Steven Welsh, Partner, Frost Brown Todd LLC

**A5.5 IMPLICATIONS OF NSR PERMIT DETERMINATIONS FOR NATURAL GAS DRILLING FOR POWER PLANTS**
- Anand Yegnan, Sr. Project Manager, ERM; Dr. John Sherwell, Maryland DNR Power Plant Research Program; Julie Ross and Mark Garrison, ERM

**A5.6 WILL THE REFINING INDUSTRY SURVIVE THE CLEAN AIR ACT?**
- Bill Smalling, Attorney, C William Smalling, PLLC

**A6. NAAQS**

**A6.1 STATE OF THE NAAQS**
- Kurt Kasing, Attorney, Pepper Hamilton LLP

**A6.2 COMPLIANCE CHALLENGES POSED BY THE NAAQS FOR SO2, NO2, AND PM2.5**
- Robert Paine, Technical Director, AECOM; David Heinold, AECOM

**A6.3 A REVIEW AND ANALYSIS OF THE CURRENT NAAQS AND POTENTIAL IMPLEMENTATION/COMPLIANCE CONCERNS**
- Laura Fleischmann, Associate, Winston & Strawn LLP

**A6.4 REGULATING MULTI-MEDIA POLLUTANT ISSUES THROUGH THE USE OF AMBIENT AIR POLLUTANT REGULATIONS**
- Greg Myers, Director of Air Quality, Consumers Energy

**A6.5 SO2 NON-ATTAINMENT DESIGNATIONS: AN UPDATE**
- Hal Robbins, President, Bison Engineering Inc

**A6.6 NAAQS CHANGES - NEW ISSUES AND APPROACHES TO AIR PERMITTING**
- Mark Thimke, Attorney, Foley & Lardner LLP
**Wednesday | January 30**

### A7. MACT POLICY

**A7.1 THE UTILITY MACT RULE: WHAT NOW?**
- **Chair:** Carrie Yonley, Vice President, Schreiber, Yonley & Associates; Dan Carney

**A7.2 MACT OUTLOOK - PRACTICAL IMPLEMENTATION**
- **Chair:** Carrie Yonley, Vice President, Schreiber, Yonley & Associates; Dan Carney

**A7.3 UPPER PREDICTED LIMITS FOR HAP EMISSIONS FROM COAL-FIRED EGUs USING STACK TEST AND CEMS DATA**
- Jonathan Allen, Principal, Allen Analytics LLC; Ralph L. Roberson, RMB Consulting & Research, Inc.

**A7.4 NO. 6 OIL USE UNDER THE EGU MACT RULE**
- Robert Fraser, Partner, ERM; Andrew Oliver and Barry Durham, ACC; Peter Anderson and Mandy Garrah, ERM

**A7.5 WHAT’S BURNING: NEW REGULATIONS FOR COMBUSTION**
- Jeff Jaros, Vice President, NTH Consultants, Ltd.

**A7.6 HOW DO YOU QUANTIFY “WORST FORESEEABLE CONDITIONS”**
- Michael Ballenger, Manager of Consulting Services - FL, Trinity Consultants

### A8. PERMITS & COMPLIANCE

**A8.1 IMPACT OF SOLID WASTE REGULATION ON ALTERNATIVE FUELS IN THE PORTLAND CEMENT INDUSTRY**
- Max Lee, President, Koogler and Associates, Inc.; John Koogler, Kyle Ulmer, Matt Tribby and Karl Seltzer

**A8.2 1-HOUR NAAQS COMPLIANCE STRATEGIES - SHORT-TERM STANDARDS REQUIRING LONG-TERM SOLUTIONS**
- Chair: Mike Rinkol, Lead Air Dispersion Modeler, Black & Veatch Corporation; Brian O’Neal

**A8.3 RECENT TRENDS IN EPA AND ACTIVIST GROUP AIR PERMIT CHALLENGES**
- Chair: Eric Hiser, Partner, Jorden Bischoff & Hiser, PLC

**A8.4 NO2 AND SO2 1-HOUR NAAQS - WHY SHOULD I CARE?**
- Thomas Pritch, Senior Engineer, Environmental Consulting & Technology, Inc.

**A8.5 BEST MANAGEMENT PRACTICES FOR COAL CAR TOPPING**
- Dan Carpenter, Power Market Manager, Midwest Industrial Supply, Inc.

**A8.6 AIR PERMITTING FOR COMBINED & SIMPLE CYCLE COMBUSTION TURBINES TODAY**
- Mary Hauner-Davis, Manager - Air & Noise Department, Burns & McDonnell; Minda Nelson

### A9. CLEAN AIR POLICY

**A9.1 MANAGING RISK AND USING REALISTIC AIR MODELING ASSUMPTIONS**
- Robert McCann, Principal; Director - Air Resources, Golder Associates Inc.

**A9.2 VALUE ADDED OR SUBTRACTED: SUBSIDIES AND EXTERNALITIES**
- Chair: Nancy LaPlaca, Arizona Corporation Commission, Commissioner Paul Newman’s Office

**A9.3 A SECONDARY NAAQS FOR PM2.5 TO PROTECT VISIBILITY - HOW MIGHT IT WORK**
- Ivar Tombreich, Consultant, Ivar Tombreich, PhD

**A9.4 CSAPR: COMPLIANCE STRATEGIES AND PORTFOLIO OPMIZATION**
- Mason Henderson, Director, Element Markets

**A9.5 HELP! REGULATORY OVERLOAD…CAN SOMEONE JUST GIVE ME THE FACTS?**
- Art Samberg, Senior Consultant, Golder Associates Inc.

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**Monday | January 30**

### B1. CEMS

**B1.1 FLUE GAS DESULFURIZATION CEMS DESIGN LESSONS LEARNED AND NEW REGULATIONS MONITORING REQUIREMENTS**
- Chair: Tim Kuiken, Midwest Regional Sales Manager, Centrek Environmental

**B1.2 IN-STACK MEASUREMENTS OF NO2 PARTITIONS FROM VARIOUS COMBUSTION SOURCES**
- Manrie Carpenter, Supervisor, JBR Environmental Consultants, Inc.; Jason Nockley

**B1.3 AIR POLLUTION MONITORING SHELTERS - HIGH QUALITY INSTRUMENT ENCLOSURE**
- Rhye Evans, Technical Manager, AmbiLabs

**B1.4 SUSTAINABLE COMPLIANCE MONITORING WITH REDUCED OPERATING COSTS & GREATER ACCURACY**

**B1.5 PM-CEM AND BAGLEAK DETECTION SOLUTIONS FOR BOILER APPLICATIONS**
- William Averdieck, Managing Director, PCME Ltd.

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**Tuesday | January 31**

### B2. HCL MONITORING

**B2.1 DRY EXTRACTIVE MEASUREMENTS FOR LOW HCL LEVELS: EXPERIENCE OF AN RDF PLANT**
- Chair: Scott Brown, Vice President, Perma Pure; John Buresh, XCEL Energy

**B2.2 HCL MONITORING EXPERIENCE**
- Seth Morrell, Sales and Marketing Director, Altech Environment U.S.A.

**B2.3 FTIR FOR MEASUREMENT OF HCL ON VARIOUS EMISSION SOURCE APPLICATIONS**
- Kevin Ramazan, Ph.D., Research & Development Manager, California Analytical Instruments; Matt Swanson

**B2.4 FTIR CEM FOR HCL AND NH3- UPDATE AND ADVANCES**
- Chair: Jeremy Whorton, CEMS Product Manager, Thermo Fisher Scientific; Steve Johnson and Dieter Kita

**B2.5 HCL MONITORING: BEST PRACTICES AND TECHNOLOGY OVERVIEW**
- Heimo Breton, Manager - Corp Solutions Center, SICK Process Automation; Dan Kietzer

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### B3. PARTICULATE MATTER, OPACITY & VISIBILITY

**B3.1 DIGITAL OPACITY MEASUREMENT LEGAL STATUS**
- Shawn Dolan, President, Virtual Technology LLC

**B3.2 PM CEMS EXPERIENCE**
- Rich Brown, Product Manager, Altech Environment U.S.A.

**B3.3 ADVANCES IN PM MONITORING USING HYBRID SELF-REFERENCING TECHNOLOGY**
- Dr. Dieter Kita, Director - R&D/E, Thermo Fisher Scientific; Kevin Gooshs

**B3.4 ESP VERSUS BAGHOUSE COMPARATIVE STUDY**
- Mick Chambers, Director of Pre-Contract Operations, Southern Environmental, Inc.

**B3.5 DEVELOPMENT OF A MORE REPRESENTATIVE PM EMISSION FACTOR FOR NATURAL GAS-FIRED, AERODERIVATIVE-CLASS COMBUSTION TURBINES**
- Louis Corio, Senior Air Quality Scientist, Zephyr Environmental Corporation

**B3.6 PM10/2.5 EMISSIONS FROM NATURAL GAS-FIRED COMBINED CYCLE POWER PLANTS**
- Chair: Joy Brooks, Principal Consultant, ENVIRON; Glenn England, ENVIRON; Jeff Hogan, The Avogadro Group; Teresa Ponder, Gila River Power LP

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**Preliminary Program (12-8) – Subject to Change**
### B4. MERCURY MEASUREMENT

**B4.1 DEVELOPMENT UPDATE ON THE XACTM: AN X-RAY FLUORESCENCE BASED MERCURY AND NON-MERCURY HAP METALS CEMS**
Krag Petterson, Principle Product Engineer - Emissions Monitoring, Pall Corporation; Douglas Barth, Marty Ladner

**B4.2 TECHNICAL ADVANCEMENTS IN HG CEMS**
Co-Chair | Dan Kietzer, Business Development Manager, SICK Process Automation

**B4.3 AMESA M SORBENT TRAP MERCURY MONITOR**
Co-Chair | Rich Brown, Product Manager, Altelco Environment U.S.A.

**B4.4 MERCURY MEASUREMENTS FROM PILOT-SCALE FURNACES**
Andrew Fry, Manager of Engineering R&D, Reaction Engineering International; Bygder Van Otten and Brad Adams, REI; Larry Booll, Praxair

**B4.5 SORBENT TRAP SAMPLING METHOD FOR HALOGEN & TRACE METAL EMISSIONS**
John H. Pavlish, Sr. Manager - Research, Energy & Environmental Research Center; Nicholas Lentz

**B4.6 REDUCE UMBILICAL (SAMPLE LINE) TEMPERATURES ON HG FREEDOM CEM SYSTEMS**
Jeremy Whorton, CEMS Product Manager, Thermo Fisher Scientific; Jeff Socha and Reggie Davis, Spectrum Systems

### B5. EMISSION TESTING & MONITORING

**B5.1 PM SPIKING FOR PM CEMS CALIBRATION**
Co-Chair | Robert Baxter, President, B3 Systems, Inc.; Derrick Hinkle, and Ron Petersen

**B5.2 METHOD 29 ALTERNATIVES: MULTI-METAL METHODS WITH CHEMICALLY REACTIVE FILTERS AND XRF ANALYSIS**
John Cooper, President, Cooper Environmental Services LLC; Troy Prittenger and Carly Hernandez

**B5.3 PM & MULTI-METAL CEMS CALIBRATION & AUDITS USING A QUANTITATIVE AEROSOL GENERATOR**
Troy Prittenger, Cooper Environmental Services LLC; John Cooper, Aaron Siemers and Jamie Berg

**B5.4 PREPARING FOR INITIAL PERFORMANCE TESTS AT COAL-FIRED AND OIL-FIRED EGUS**
Jim Seine, Principal Engineer, TRC Environmental Corporation

**B5.5 IR GAS DETECTION TECHNOLOGIES IMPROVING SAFETY & DIRECTING MAINTENANCE**
Milton Heath, Director - Environmental Services, Heath Consultants Incorporated

**B5.6 AIR POLLUTION FROM TAILINGS OF DEPOSITED AEROSOL IN CITY OF MITROVICA**
Afrim Syla, Air Quality Specialist, University of Prishtina - Kosovo; Fatbardh Syla

### B6. MONITORING & REPORTING I

**B6.1 AMMONIA MEASUREMENTS WITH PHOTOACOUSTIC SPECTROSCOPY**
Co-Chair | Jom McKarns, Principal, ECO PHYSICS, INC.

**B6.2 SMOKE STACK MONITORING REQUIREMENTS AND OPTIONS**
Robert Mullowney, CEO, MonitorTech Corporation

**B6.3 MANAGING AN AIR COMPLIANCE DATA ACQUISITION SYSTEM WITHIN THE VIRTUAL WORLD OF AN IT DEPARTMENT**
Co-Chair | Matthew Radigan, Business Development Manager, VIM Technologies, Inc.; S. Millsaps, Progress Energy; W. Davidson, C.E.M. Solutions, Inc.

**B6.4 MEASUREMENT OF PM2.5 EMISSIONS FROM LOW-CONCENTRATION SOURCES**
Kevin Crosby, Technical Director, The Avagadro Group, LLC

**B6.5 REAL-TIME MONITORING OF SO2 IN THE FLUE GAS**
Anand Mamidipudi, Product Line Manager, Thermo Fisher Scientific; Jeff Socha

**B6.6 PREDICTIVE EMISSIONS MONITORING SYSTEM QUALITY ASSURANCE**
Brian Swanson, President, CMC Solutions; Dave Haehnle

### B7. MONITORING & REPORTING II

**B7.1 OPTICAL SCINTILLATION FLOWMETER OVERCOMES EXTREME APPLICATION CONDITIONS**
Dorn Williams, Executive V.P., Optical Scientific, Inc.

**B7.2 CLIMATE CHANGE AND SF6 EMISSIONS**
Co-Chair | John Eastman, Project Engineer, INCON

**B7.3 CEMENT AND COAL PLANTS EMISSIONS MONITORING BY FTIR**
Sylvie Bosch-Chapenay, Senior Applications Engineer, MKS Instruments; Barbara Marshik, and Peter Zemek

**B7.4 ADVANCED CEMS DATA QA TECHNIQUES**
Rud Muener, Compliance Manager, VIM Technologies; Bill Mitchell

**B7.5 DEVELOPMENT & FIELD TESTING OF A CONTINUOUS REAL-TIME IN SITU SO3 MONITOR**
Co-Chair | Curtis Laush, Senior Scientist, Industrial Monitor and Control Corp. (IMACC); Greg Coleman and Brian Adair, Geo yeast Consultants

**B7.6 QUALITY CONTROL OF AIR POLLUTION NETWORK IN ALEXANDRIA CITY, EGYPT**
Mina Ghattass Gad, M. Sc. Student, Alexandria University; Shawkat K. Guirgis

### B8. MODELING I

**B8.1 AN EMISSIONS VARIABILITY PROCESSOR FOR USE IN COMPLIANCE MODELING**
Co-Chair | Robert Iwanchu, Manager - Air Quality Services, AECOM; Robert Paine, Richard Hamel and David Heinold, AECOM; Naresh Kuman and Bladio Knipping, EPRI

**B8.2 MODELING THE NEW NO2 1-HOUR NAQQS**
Shantanu Kongara, Permit Engineer, JBR Environmental Consultants

**B8.3 THE REGIONAL HAZE MODELING WARS CONTINUE**
Co-Chair | Gale Hoffnagle, Air Quality Consulting Practice Leader, TRC Environmental Corporation

**B8.4 UPDATES TO AERMOD AND IMPACTS TO COMPLIANCE**
Teresa [Tree] Raine, Senior Consultant, ERM

**B8.5 PALMDALE HYBRID POWER PROJECT PERMITTING CASE STUDY-NAQQS MODELING ISSUES**
Rich Hamel, Air Quality Meteorologist, AECOM; Sara Head

**B8.6 GETTING TO (MODELED) YES: 10 CONVENTIONAL AND UNCONVENTIONAL MEASURES TO MODEL COMPLIANCE WITH THE NEW AMBIENT STANDARDS**
Clay Raasch, Upper Midwest Operations Director, Trinity Consultants

### B9 MODELING II

**B9.1 SHORT-TERM NAQQS MODELING - LESSONS LEARNT**
Co-Chair | Mark Garrison, Senior Associate, ERM; Dr. John Sherwell, Maryland DNR; Aanand Yegnak and Surya Ramaswamy, ERM

**B9.2 MODELING POWER PLANTS WITH AERMOD & REVISED BUILDING DOWNWASH**
Everest Yan, Senior Engineer, PCR Services Corporation; Heidi Rous

**B9.3 SOLUTIONS FOR A MONITORED SO2 NAQQS EXCEEDANCE WHEN AERMOD DEMONSTRATES COMPLIANCE**
Anke Beyer-Lout, Project Scientist, CPP, Inc.; Ron Petersen

**B9.4 ERRORS IN IPM ASSUMPTIONS ON REMEDY MODELING FOR EPA’S TRANSPORT RULE**
Carl Weilert, Principal APC Engineer, Burns & McDonnell

**B9.5 SELECTING AN ALTERNATIVE CASE SCENARIO FOR ACCIDENTAL RELEASE MODELING FOR SOURCES SUBJECT TO RISK MANAGEMENT PLAN (RMP) REGULATIONS**
Kyle Heckel, Environmental Consultant, Trinity Consultants
**C1. HG CONTROL DEMONSTRATIONS**

**C1.1 CUMULATIVE BENEFITS OF HG REDUCTION USING HBR**
Bobbo Chen, Client Program Manager, Shaw Environmental, Inc.

**C1.2 MINI HG REMOVAL SYSTEM WITH NH4AC INJECTION**
Shintaro Honjo, R & T Engineering Manager, Mitsubishi Heavy Industries America, Inc.

**C1.3 MEETING MERCURY EMISSION REGULATIONS THROUGH CONTROL OF RE-EMISSION ACROSS WET FDGS**
Co-Chair | Bruce Keiser, Research Fellow, Nalco Company; John Meier, Wayne Carlson, Jianwei Yuan, and Robert Domen

**C1.4 DEMONSTRATION OF HG, ARSENIC AND SELENIUM REDUCTION IN FGD SETTILING POND USING NEW METHOD FOR SORBENT DISBREMENT AND RETENTION**
Robert Jones, Managing Partner, Energy & Environmental Enterprizes, LLC; Milcentt Garland, TVA

**C1.5 MOBILITY, SETUP AND PRECISION OF PORTABLE HG CEMS**
Joseph Siperstein, President, Ohio Lumex Company; Mark Seibel & Andrew Mertz

**C1.6 AMENDED SILICATES FOR MERCURY CONTROL**
Co-Chair | Jim Butz, Manager-Technical Services, Novindia; Mike Lucarelli, Novindia; Gordon Schott, CH2M Hill

**C2. HG CONTROL DEMONSTRATIONS & BROMINE**

**C2.1 IMPACTS OF HALOGEN INJECTION FOR MERCURY CONTROL IN COAL-FIRED BOILERS**
Connie Senior, Senior Scientist, ADA-ES; Sharon Sjostrom and Ken Baldrey

**C2.2 OPERATING RESULTS OF ALSTOM’S KNXTM HG CONTROL TECHNOLOGY IN 2000 MW OF COAL-FIRED BOILERS**
Thomas Pearson, Principal Process Engineer, Alstom Power; Andy Szafarz, Aliant Energy; Edwin L. Morris Jr. P.E., We Energies; Bernhard W. Vosteen, Vosteen Consulting GmbH

**C2.3 BROMINE ENHANCED DRY MERCURY CAPTURE**
Co-Chair | Bernhard W. Vosteen, President, Vosteen Consulting GmbH

**C2.4 ADVANCEMENT OF THE STEAG PROCESS FOR HG & SE REDUCTION IN WASTE WATER**
Co-Chair | Philip Elliott, Project Manager, STEAG Energy Services LLC

**C2.5 BR INJECTION TECHNOLOGY FOR HG MITIGATION AT COAL-FIRED POWER PLANTS**
Thomas Gale, Power Systems Research Manager, Southern Research; George Blankenship

**C2.6 REVIEW HG CONTROL TECHNOLOGY UTILIZING SORBENT ENHANCEMENT ADDITIVES**
Marcus Sylvester, VP Sales, Midwest Energy Emissions Corp; Rick MacPherson

**C3. DSI & MULTI-POLLUTANT CONTROL**

**C3.1 ACI AND DSI SYSTEMS: PROCUREMENT PLANNING FOR THE MATR**
Co-Chair | Jean Bustard, Chief Operating Officer, ADA Environmental Solutions; Cameron Martin, Bob Wewer, Greg Filipelli, and Rich Miller

**C3.2 FGD SYSTEM RETROFIT AND RELATED IMPROVEMENTS AT MILTON R. YOUNG UNIT 1**
Katie Bland, Environmental Engineer, Burns & McDonnell; Scott Richard; Craig Bleih and Kevin Thomas, Minn Kota Power Cooperative; Robert Warner, Marsxel Environmental Technologies

**C3.3 LIME-BASED CIRCULATION DRY SCRUBBERS FOR EXISTING COAL-FIRED BOILERS TO MEET MACT LIMITS**
Co-Chair | Shaw Tseng, Manager - Rube Gas Treatment Technologies, Graymont

**C3.4 OPERATIONAL FACTORS AFFECTING MERCURY RE-EMISSIONS FROM A WET FLUE GAS DESULFURIZATION SYSTEM**
Eric ten Siethoff, Lead Engineer, MPR Associates; Jeff Russell, MPR Associates; Paul Orban, GenOn Energy

**C3.5 DEVELOPING HOLISTIC COMPLIANCE SOLUTIONS**
Diane Fischer, Air Quality Control Services Area Leader, Black & Veatch

**C4. HAPS/MACT/TRI**

**C4.1 REMOVAL OF HCL USING HYDRATED LIME DRY SORBENT INJECTION**
Co-Chair | Curt Bieth, Manager - Technical Sales & Marketing, Mississippi Lime Company; Tony Silva, Babcock & Wilcox

**C4.2 DRY SORBENT INJECTION FOR SIMULTANEOUS EGU MACT & CATR COMPLIANCE**
Jon Norman, DSI Technology Manager, United Convoyer Corporation

**C4.3 CAN I KEEP MY ESP WITH THE MACT RULE?**
Co-Chair | Michael Widico, VP of Business Development, Lodge Cottrell Inc.

**C4.4 HCL EMISSIONS REDUCTION WITH HYDRATED LIME AT TSA’S SHAWNEE FOSSIL PLANT**
Bryan Williams, Project Manager - Environmental Controls, TSA; Curt Bieth, Miss. Lime Co.

**C4.5 EFFECTIVE MERCURY AND SO3 CONTROL USING SBS INJECTION™**
Sterling Gray, Business Development Manager, URS Corporation

**C4.6 FIELD TEST PROGRAMS TO EVALUATE EGU MACT COMPLIANCE STRATEGIES**
Russell Berry, Senior Project Manager, RMB Consulting & Research, Inc.

**C5. CONTROL TECHNOLOGIES**

**C5.1 EFFECTIVE NOX CONTROL USING PEROXIDE OXIDATION & SDA CAPTURE IN TANDEM**
Co-Chair | Robert Cyrnack, Business Development Manager - Air Emissions, FMC Corporation Peroxygen Division; John Rovison, Tim Holtz, and Kevin Huang, FMC; Dennis Laudal, Stan Miller, and Jeff Thompson, EERC

**C5.2 FUEL LEAN GAS RETURN AS A TOOL FOR CSAPR COMPLIANCE**
Co-Chair | Charles Lockert, Vice President, Breen Energy Solutions; Chetan Chathani

**C5.3 MULTIPOLLUTANT CONTROL TECHNOLOGY**
Kevin Crapsey, Vice President, Eco Power Solutions; Sanjeev Jolly, Eco Power Solutions

**C5.4 SCR CATALYST REGENERATION - EXTENDING THE LIFE-CYCLE OF YOUR ASSETS**
Mike Mattes, Chief Operating Officer, Coaligix; Randy Sadler

**C5.5 MULTIPLE SOX, NOX AND MERCURY REMOVAL IN A SINGLE WET SCRUBBER PASS**
Yuval Davidor, Executive Director, Lextran Ltd.; Haim Sternfine

**C5.6 ENSURING OPTIMAL COMPLIANCE WITH FUTURE MERCURY REGULATIONS**
Gary Rudowski, Director – U.S. Energy Business, Hatch

**C6. MATS & CONTROL TECHNOLOGIES**

**C6.1 EFFECT OF PLANT OPERATIONS ON TRACE METAL CHEMISTRY IN FGD LIQUOR**
Corey Tyree, Principal Engineer, Southern Company; Jonathan Allen, Allen Analytics LLC; Derek Eggert, Southern Research

**C6.2 ADVANCED HG OXIDATION TRAC® CATALYST FOR COAL FIRED POWER PLANTS**
Kyle Neidig, Catalyst Product Manager, Hifachi Power Systems America, Ltd.

**C6.3 A CARBON COMPOSITE BASED FLUE GAS HG AND SOX REMOVAL TECHNOLOGY**
X. Sean Lu, Technologist, W.L. Gore & Associates, Inc.; Steven Stark, Zhengtian Xu, Richard Gebert, W.L. Gore; Thomas Machakele, Carl Richardson, Jennifer Paradis, URS; Ramsay Chang, EPR; Brandon Looney, Marcus Mathews, Southern Company

**C6.4 MATS CONTROL THROUGH ESP ENHANCEMENT & MER-CURE™ TECHNOLOGY**
Richard Laffesh, Principal Consulting Engineer, Alstom Power; Tapan Mukherjee and John Iovino

**C6.5 RETROFIT OPTIONS TO MEET THE MATS**
Co-Chair | Sharon Sjostrom, CTO, ADA-ES ; Connie Senior, Cameron Martin and Jean Bustard

**C6.6 ULTRA™ PROCESS & ITS EFFECTS IN ESP PERFORMANCE & OPERATION IMPROVEMENTS**
Co-Chair | John Boyle, Sr. Director - Technology Development, FuelTech, Inc.
**C7. DRY SORBENT INJECTION**

**C7.1 DSI WITH HYDRATED LIME - A LOW CAPITAL COST MACT CONTROL OPTION**
Jim Dickerman, Director of Flue Gas Treatment, Lhoist North America; Melissa Sewell

**C7.2 DESIGNING AND OPERATING A RELIABLE DSI SYSTEM**
Greg Filipelli, Director of Operations, ADA Environmental Solutions; Martin Dillon, Aaron Oakley, and Randy Boerema

**C7.3 USE DRY SORBENT INJECTION TO COMPLY WITH AIR EMISSIONS REGULATIONS**
►Co-Chair | Yougen Kong, Technical Development Manager, Solvay Chemicals Inc.

**C7.4 DRY SORBENT INJECTION AND HCl MITIGATION**
►Co-Chair | Michael Thiel, Technical Sales Manager, Nol-Tec Systems, Inc.

**C7.5 REAL TIME SO3 MONITORING IN POWER PLANTS**
Dan Kietzer, Business Development Manager, SICK Process Automation

**C7.6 HCl CONTROL WITH SODIUM AND CALCIUM SORBENTS**
Anthony Silva, Principal Engineer, Babcock & Wilcox; Edward Campobenedetto

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**C8. ACTIVATED CARBON**

**C8.1 POWDERED ACTIVATED CARBON WITHIN ESPS**
Herek Clack, Associate Professor, Illinois Institute of Technology; Yasmin Khakpour

**C8.2 ACTIVATED CARBON PERFORMANCE IN EMISSION SYSTEMS**
Robert Huston, Director of Technical Services, ADA-CS; Justin McNeil and Sharon Øststrom, ADA-ES; Chris Vizcaino, ADA-CS

**C8.3 THE FUTURE OF FLYASH AS A CEMENTITIOUS MATERIAL**
John Kline, VP Technical Expertise, Lafarge

**C8.4 IMPROVED HG REMOVAL PERFORMANCE USING NEW DARCO® HG-LH EXTRA**
►Co-Chair | Rob Nebergall, Business Mgr. - Emissions Control Technologies, Norit Inc.

**C8.5 NON-HALOGENATED ACTIVATED CARBON FOR MERCURY CAPTURE FROM COAL-FIRED POWER PLANT FLUE-GAS**
►Co-Chair | David Mazycz, CEO, Carbonet; Heather Byrne, Ameena Khan, Christine Foster, Jack Drwiega & Caitlin Gross

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**C9. ADVANCED CONTROL TECHNOLOGIES**

**C9.1 WET FGD VERTICAL ARRANGEMENT IN CONCRETE CHIMNEY WINDSHEILD**
Mitchell Krasnopoler, Manager/Air Quality, Kiewit Power Engineers; Tim Dement, Anand Mahabaleshwarkar, Bob Alder, and Steve Frankasky

**C9.2 RECENT TRIALS WITH CONCRETE-FRIENDLYTY C-PACT MERCURY SORBENT**
►Co-Chair | Jon Miller, Customer Technical Service Engineer, Albermarle Mercury Control

**C9.3 RE-ENGINEERING COAL-FIRED GENERATING PLANTS FOR LOW POLLUTANT EMISSIONS AND EXTENDED COMPETITIVE LIFE**
Keith Moore, President, CleanLight Energy Corp; Dr. John Stencil, TriboFlow Separations

**C9.4 HIGHLY EFFECTIVE AND ECONOMICAL HG COMPLIANCE TECHNOLOGY**
►Co-Chair | Bobby Chen, Client Program Manager, Shaw Group

**C9.5 CONTINUOUS MERCURY CONTROL AT PPL MONTANA CORETTE STATION WITH CONCRETE-FRIENDLY C-PAC SORBENT**
Ron Landreth, Manager Customer Technical Service, Albermarle Mercury Control

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**D1. NATURAL GAS & ENERGY POLICY**

**D1.1 NATURAL GAS DEMAND**
Ken Yeasting, IHS CERA

**D1.2 OPERATIONS AND ENVIRONMENTAL ISSUES WITH NATURAL GAS**
Paul Hagemeier, VP CHK

**D1.3 PRUDENT DEVELOPMENT - REALIZING THE POTENTIAL OF NORTH AMERICA’S ABUNDANT NATURAL GAS AND OIL RESOURCE**
►Co-Chair | Fiji George, Manager - Safety & Sustainability, El Paso Corporation

**D1.4 POLICY RECOMMENDATIONS: NPC AND SEAB SHALE GAS REPORTS**
Susan Tierney, Managing Principal, Analysis Group

**D1.5 NATURAL GAS: CLIMATE BRIDGE OR ROADBLOCK?**
Armond Cohen, Executive Director, Clean Air Task Force

**D1.6 INDUSTRIAL GAS DEMAND RENAISSANCE: WILL IT HAPPEN?**
►Co-Chair | Kenneth Ditzel, Principal, Charles River Associates

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**D2. CLIMATE POLICY & ENERGY SUSTAINABILITY**

**D2.1 RENEWABLE ENERGY MANDATES & GHG CONTROLS: TWO’S A CROWD**
Lily Mitchell, Senior Associate, Hanna and Morton LLP

**D2.2 THE STATE OF CLIMATE COMMUNICATIONS**
►Co-Chair | Margery Moore, Director of EHS Strategic Alliances, Bloomberg BNA

**D2.3 HOW CLIMATE CHANGE IS DRIVING A NEW WAVE OF ENERGY EFFICIENCY REVIEW & INVESTMENT**
Rick Shah, Program Director, ERN; Lynn M. McGuire

**D2.4 ENDURING THE ENVIRONMENTAL LEGISLATIVE ROLLER COASTER**
Greg Gasperecz, VP - Environmental, Health & Safety, Envirotech

**D2.5 ECONOMIC ANALYSIS OF EXISTING COAL PLANT RETROFITS WITH CCS**
John Marano, Consultant, NTEI; Donald Hanson

**D2.6 GLOBAL CLIMATE CHANGE - THE ENERGY CHALLENGE**
►Co-Chair | Frank Pricicotta, Director, Environmental Protection Agency

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**D3. ECONOMIC, ENERGY & CYBER SECURITY**

**D3.1 LESSONS THAT RENEWABLE ENERGY HAS TAUGHT THE ENERGY INDUSTRY: BEST PRACTICES FOR ENERGY SECURITY**
Lara Helfer, Senior Program Manager - Energy, AECOM

**D3.2 SUPPLYING RARE EARTHS FOR RENEWABLE ENERGY TECHNOLOGY DEPLOYMENT**
Paul Bailey, Associate, ICF International; Terry Unger

**D3.3 DOD DEMAND RESPONSE PROGRAM**
Paul Hahn, Senior Counsel, Defense Logistics Agency-Energy

**D3.4 STATUS OF CYBER SECURITY REQUIREMENTS AND GUIDELINES FOR UTILITIES**
►Co-Chair | Alex Dely, Contracts Manager, Raytheon Missile Systems

**D3.5 ADVANTAGES OF AN INTEGRATED FACTORY ACCEPTANCE TEST IN AN ICS ENVIRONMENT**
►Co-Chair | Jerome Farquharson, Practice Manager, Burns & McDonnell Engineering; Anna Wang
D4. US CLIMATE POLICY & ANALYSIS

D4.1 THE US CLIMATE POLICY LANDSCAPE: POLICY SCENARIOS FOR ELECTRIC UTILITIES
Co-Chair | Rob Barnett, Energy Analyst, Bloomberg Government

D4.2 IMPACTS OF FUTURE CLIMATE CHANGE ON US ENERGY DEMANDS & EMISSIONS
Jessica Montanez, Masters Student, UNC, Chapel Hill; Dan Loughlin, Cynthia Gage and Bryan Hubbell, USEPA: Jason West and Barron Henderson UNC Chapel Hill

D4.3 PRISM 2.0: THE VALUE OF INNOVATION
Co-Chair | Bryan Hannegan, Vice President - Environment and Renewables, Electric Power Research Institute

D4.4 MANAGING CARBON WITHOUT CAP & TRADE
Elton Sherwin, Sr. Managing Director, Ridgewood Capital

D4.5 “CAP-AND-TRADE” SYSTEMS & ITS EFFECT ON U. S. REFINING & MARKETING
Michelle De Blasi, Partner, Quarles & Brady, LLP

D4.6 ASSESSMENT OF EMISSIONS CHANGES FROM US DOE LOAN GUARANTEE PROJECTS
Colin High, Principal Consultant, Resource Systems Group Inc.

D5. ENERGY POLICY

D5.1 THE CONTINUING SHALE GAS STAMPEDE
Co-Chair | Mitchell Baer, Director - Office of Oil & Gas Analysis, Office of Policy & International Affairs, US DOE

D5.2 LONG DISTANCE UNDERGROUND HVDC TRANSMISSION VIA ELPIES
Roger Faulkner, Project Manager, Electric Power Research Institute (EPRI)

D5.3 INSIGHTS INTO POTENTIAL FUTURES FOR SOLAR POWER - FROM THE EPRI-US-REGEN TECHNICAL & ECONOMIC MODEL
James Merrick, Project Manager, Electric Power Research Institute (EPRI)

D5.4 THE STATE OF U.S. ENERGY INNOVATION POLICY
Matthew Steppo, Clean Energy Policy Analyst, Information Technology & Innovation Foundation

D5.5 WHAT TO DO ABOUT CLIMATE CHANGE? A SIMPLE THREE-STEP PLAN
Elon Sherwin, Sr. Managing Director, Ridgewood Capital

D5.6 ROADBLOCKS TO RENEWABLE INTEGRATION
Co-Chair | Charlie Bayless, Former Utility CEO, Tucson Electric Power and Dynergy

D6. STATE & REGIONAL

D6.1 UPDATE ON NORTHEAST/MID-ATLANTIC CLEAN FUELS PROGRAM
Michelle Munian, Climate and Energy Team Leader, NEECAUM

D6.2 ANALYZING GHG IMPACTS UNDER CEQA
Everest Yan, Senior Engineer, PCR Services Corp

D6.3 A STRATEGIC PLAN FOR ARIZONA’S SOLAR FUTURE
Michelle De Blas, Partner, Quarles & Brady, LLP

D6.4 POTENTIAL FEDERAL NEXUS GHG PERMITTING IN TEXAS
Bill Jamieson, Senior Program Manager, SWCA Environmental Consultants; Jim Jones

D6.5 ECONOMIC IMPACT OF RGGI: FOLLOWING THE DOLLARS
Bill Smalling, Attorney, C William Smalling, PLLC

D6.6 ASSESSMENT OF EMISSIONS CHANGES FROM US DOE LOAN GUARANTEE PROJECTS
Colin High, Principal Consultant, Resource Systems Group Inc.

D6.7 INTERACTION EFFECT BETWEEN DETERMINANTS OF ENERGY INTENSITY IN THE U.S
Adeedolapo Akinde, PhD Student, UNC at Charlotte; Dr. Peter Schwarz

D7. CALIFORNIA INITIATIVES

D7.1 UPDATE ON THE STATUS OF CALIFORNIA’S GHG CAP-AND-TRADE PROGRAM
Myriam Mills, Project Manager, CDW

D7.2 STRATEGIES FOR COMPLYING WITH CURRENT GHG REGULATIONS IN CALIFORNIA
Allison Smith, Attorney, Stoel Rives LLP

D7.3 CALIFORNIA’S CLIMATE CHANGE INITIATIVE: A BRIDGE TO WHERE?
Scott Hoch, Partner, Brownstein Hyatt Farber Schreck; Les Lo Baugh

D7.4 CARB’S AB32 RULES AND CALIFORNIA POWER MARKETS
Co-Chair | Andy Van Horn, Managing Director, Van Horn Consulting

D7.5 LINKING CALIFORNIA TO THE WCI: PRACTICAL CHALLENGES IN CREATING THE WORLD’S SECOND LARGEST INTERNATIONAL CARBON MARKET
Co-Chair | David Hunter, US Director, IETA

D7.6 CALIFORNIA CAP-AND-TRADE: HOW TO PREPARE IN 2012
James Westbrook, President, BlueScape Environmental

D8. ENERGY & CLIMATE

D8.1 RESILIENT ENERGY INFRASTRUCTURE RESPONDING TO IMPACTS OF CLIMATE CHANGE
Mike Nolan, Associate Director - Sustainability & Climate Change, AECOM

D8.2 WINTER 2010-11 OZONE MEASUREMENTS IN UTAH’S UINTA BASIN
Scott Hill, Director, EDL Eastern Utah Operations; Randal Martin, Utah State University; Kori Moore and Howard Shorthill, USFS ‘s EDL; Kiera Harper, UDAQ

D8.3 ENERGY SYSTEM TRANSITION UNDER MANDATES AND CAP AND TRADE
Co-Chair | Scott Bloomberg, Vice President, NERA Economic Consulting; Suganda Tuladhar, Paul Bernstein, David Montgomery, Anne Smith and Mei Yuan

D8.4 U.S. CARBON MARKETS 2009-2011: EVOLUTION AND UNCERTAINTY
Jim Woodward: Alternative Energy and Sustainability, Deloitte Consulting, LLP

D8.5 CANADA’S PROPOSED CO2 REDUCTION REGULATION FOR COAL-FIRED POWER
Lisa DeMarco, Partner, Norton Rose Canada

D8.6 AB32: CAP AND TRADE STRATEGIES AND PORTFOLIO OPTIMIZATION
Randy Lock, Chief Marketing Officer, Element Markets
E1. ELECTRIC VEHICLES

E1.1 STRUCTURAL ECONOMIC MODELING OF ELECTRIC VEHICLE ADOPTIONS
Matthew Bingham, Principal Economist, Veritas Economics; Jason Kinnell

E1.2 EV CHARGERS TO GRID: LESSONS LEARNED
►Co-Chair | Don Kamer, President of ECOtality North America, ECOtality

E1.3 ADVANCED SOFTWARE INFRASTRUCTURE FOR ELECTRIC VEHICLES
Geoff Ryder, Principal - Transportation & Energy, SAP Labs, LLC; Gil Perez & Timo Stelzer

E1.4 ENCOURAGING USE OF RENEWABLE ENERGY IN THE ELECTRIC VEHICLE INDUSTRY
Brendan Cook, Analyst, Center for Resource Solutions

E1.5 OF VOLTS AND LEAVES: NON-PLUGIN SERIES HYBRID CARS MAY CAUSE FEWER GHG THAN PLUG-IN HYBRIDS OR FULLY ELECTRIC CARS
►Co-Chair | Christoph Meinrenken, Research Scientist, Earth Institute at Columbia University; Siddharth Ramesh, Klaus Lackner

E1.6 PRACTICALITY OF RETROFITTING FLEET VEHICLES WITH PHEV TECHNOLOGY
Dennis Baranik, Vice President of Sales and Marketing, ALTe Powertrain Technologies

E2. EV-PV, CPV & BATTERIES

E2.1 BACK TO THE FUTURE: NEW ADVANCES IN GREEN BATTERY DESIGN
Rob Guyton, CEO, Encel Technology

E2.2 NATURAL GAS VEHICLE FLEET CONVERSIONS IN THE UTILITY INDUSTRY
Dave Heitz, Sr. Engineer, Geosyntec Consultants

E2.3 RARE EARTH ELEMENTS & GREEN ENERGY TECHNOLOGY: PRELIM. HAZARD ANALYSIS
Art Lewis, Sr. Toxicologist, Gradient; Dave Mayfield and Kim Ried

E2.4 A LOW CARBON STRATEGY FOR FUELING THE U.S. ELECTRIC VEHICLE FLEET IN 2050
►Co-Chair | Luke Leaver, Researcher, Asia Pacific Energy Research Centre; Ralph Samuelson, APERC; Jonathan Leaver, Unitec Institute of Technology

E2.5 CPV + WDG = SUCCESSFUL MODEL FOR UTILITY-SCALE SOLAR DEPLOYMENTS
Guy Blanchard, Senior Vice President, Amonix, Inc.

E2.6 PV & CPV COMPETING WITH COMMODITY ELECTRICITY
►Co-Chair | Paula Mints, Director - Principal Solar Analyst, Navigant

E3. SOLAR FEASIBILITY & ASSESSMENT

E3.1 UTILITY-SCALE SOLAR PROJECTS IN CALIFORNIA - THE KEYS TO DEVELOPMENT PERMITS IN DESERT AREAS AND ON FARMLAND
Kristin Castanos, Attorney, Stoel Rives LLP

E3.2 STRUCTURAL CODES IN SOLAR - THE TIME IS NOW
►Co-Chair | Juan Suarez, Senior Director of Engineering & Program Mgmt., Unirac

E3.3 RISK MANAGEMENT IN PHOTOVOLTAIC MOUNTING SYSTEM DESIGN
Wolfgang Fritz, Vice President of Engineering, Schletter Inc.

E3.4 PV POWER PLANT CONSIDERATIONS
Lane S. Garrett, P.E., C.E.M., CEO, ULG Energy Solutions, Inc.

E3.5 DEVELOPMENT OF 5V CATHODE AND ELECTROLYTE MATERIALS
Steven Kaye, Chief Scientific Officer, Wildcat Discovery Technologies

E3.6 WHO HOLDS THE BAG? ASSESSING UTILITY-SCALE PV PROJECT RISK
►Co-Chair | Mat Taylor, Senior Engineer/Project Manager, Tetra Tech
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F1.1 CORPORATE STRATEGIES FOR RENEWABLE ENERGY IMPLEMENTATION
Robby Richards, CEO, Copernicus Energy, Inc.

F1.2 FAST-TRACK PERMITTING APPROACHES FOR ACHIEVING USA AND INTERNATIONAL SOCIAL LICENSE TO OPERATE
►Co-Chair | John Aronson, President, AATA International, Inc.; Justin Seweryn

F1.3 ACHIEVING PROJECT COMPLIANCE AND QUALITY ASSURANCE
Kevin Wedman, Vice President, Bureau Veritas North America, Inc.

F1.4 BENEFITS, RISKS & KEY CHALLENGES FOR AGGREGATING GHG EMISSIONS OFFSETS
Adam Diamant, Senior Project Manager, Electric Power Research Institute (EPRI)

F1.5 MEDIUM, MESSAGE AND MESSANGER - EFFECTIVE CCS COMMUNICATION
►Co-Chair | Carmen Dybwad, CEO, IPAC-CO2

F2. CARBON MANAGEMENT

F2.1 THERMAL OXIDATION AS A MEANS TO CARBON OFFSET GENERATION
Jim Stone, Senior Manager, Durr Systems, Inc.

F2.2 CONTROLLING YOUR CARBON EMISSIONS BEFORE THEY CONTROL YOU: A ROADMAP FOR ENTERPRISE GHG MANAGEMENT
Jeff Nobles, Enablon Carbon Product Manager, Enablon

F2.3 CARBON SEQUESTRATION PILOT PROJECT AT TEC POLK POWER STATION
►Co-Chair | Bradley Pekas, Vice President, Environmental Consulting & Technology, Inc., David Lukcic, Tampa Electric Company

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►Co-Chair | George(Sherk) Sherk, COO, IPAC-CO2

F2.5 LIFE CYCLE CARBON IMPACTS OF UTILITY SCALE PHOTOVOLTAIC PROJECTS
Parikhit Sinha, Director - Sustainable Development, First Solar

F3. MANAGING RISK AND PROJECT FINANCE

F3.1 INVESTOR REPORTING
Bonnie Sharphouse, Senior Specialist Reporting, Hess Corporation

F3.2 OPTIMIZING ENVIRONMENTAL SPENDING AND RISK
►Co-Chair | Jim Pardikes, Vice President of Capital Planning, MCR Performance Solutions

F3.3 HOW TO INVEST IN THE NEW GHG CONSTRAINED FINANCIAL MARKETS IN THE LIGHT OF THE FINANCIAL REFORM
Nedia Miller, Principal, MILLER CTA

F3.4 THE BEST RISK MANAGEMENT: KNOW YOUR SITE AND WHAT IS IMPORTANT
►Co-Chair | Peter Wyant, Chief Development Officer, IPAC-CO2; Majid Nasehi

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Regina, Canada S4S 7H9
**F4. CCS**

**F4.1 CARBON CAPTURE & SEQUESTRATION: NECESSARY LEGAL & REGULATORY CHANGES**
Les Lo Baugh, Partner, Brownstein Hyatt Farber Schreck; Morgan Evans

**F4.2 COMMERCIALIZATION OF ALSTOM’S CHILLED AMMONIA TECHNOLOGY**
David Muraskin, Technology Manager, ALSTOM Power Inc.; Fred Kazok and Rameshwar Hiwale, Alstom; Rob Bollinger, AEP

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Brandon Pavlish, Research Manager, EERC; Joel Downs and Nathan Fiala

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►Co-Chair | Wolfgang Schoerner, Director - HyCO Business Unit, Linde Engineering

**F4.5 RELATIONSHIP BETWEEN ABUNDANCE OF NOCTILUCA SCINTILLANS & ENVIRONMENTAL FACTORS IN CHAHBAHAR BAY**
Neda Fazeli, Iranian National Oceanography Center; Rasool Zare

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**F5. CCS TECHNOLOGIES I**

**F5.1 FALCON TECHNOLOGY: COST REDUCTION IN CARBON SEQUESTRATION**
Lawrence Dressler, President, Tomorrow Biofuels LLC

**F5.2 MHI’S KM-CDR POST-COMBUSTION CO2 CAPTURE PROCESS AND COAL-FIRED 500 TPD DEMONSTRATION UPDATE**
Steven Holton, Director - Business Development, Mitsubishi Heavy Industries America, Inc.

**F5.3 SOLID SORBENTS AS A RETROFIT CO2 CAPTURE TECHNOLOGY**
Travis Starns, Manager Emission Control Projects, ADA-ES, Inc.

**F5.4 ENZYME-CATALYZED CO2 CAPTURE IN LOW ENERGY SOLVENTS**
►Co-Chair | Alex Zaks, CTO, VP Research, Akermin, Inc.

**F5.5 ENZYME-ENABLED CO2 CAPTURE: LOWERING THE CCS COST BARRIER**
Jonathan Carley, Vice-President - Business Development, CO2 Solution Inc.; James Lalone, Codexis, Inc.

**F5.6 LOW TEMP. CO2 SORBENTS ON THERMODYNAMIC & CYCLIC ADSORPTION STUDIES**
Fengsheng Su, Post-Doctoral fellow, National Chung Hsing University; Chungsyung Lu

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**F6.1 A SUMMARY OF CCS TECHNOLOGIES & CO2 USE OPTIONS**
►Co-Chair | Brandie Sebastian, Project Engineer, ERM; Jennifer Gunnufelsen and Leonard Rafaiko, ERM; John Sherwell and Paul Petzrick, Maryland DNR PPRP

**F6.2 PCOR: A REGIONAL CARBON SEQUESTRATION PARTNERSHIP**

**F6.3 WHAT COMBINED CALORIMETRIC & VOLUMETRIC TECHNIQUES CAN DO FOR CO2 SEPARATION APPLICATIONS**
Andre Levchenko, Applications Scientist, Setaram Inc.; Steve Karim, Remi Andre and Emmanuel Wirth

**F6.4 AUTOTHERMAL METHOD FOR REMOVING CARBON DIOXIDE FROM FLUE GAS**
Hugo Caram, Professor of Chemical Engineering, Lehigh University; Alberto LaCava

**F6.5 FTIR MONITORING SYSTEM PROVIDES TIGHTER CONTROL ON EMISSIONS FROM CARBON CAPTURE PROCESS**
Jim Cornish, Sales & Technical Support, Gasmet Technologies, Inc.; Luc Sevrette and Jacques Bourbonnais

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G1.1 CARBON FOOTPRINTS FOR WASTEWATER FACILITIES AND LANDFILLS
Sarah Cwikla, Senior Project Manager, IHS; Wayne McFarland

G1.2 NEW GHG INVENTORIES AND FOOTPRINTS: DOES ONE SIZE FIT ALL?
Co-Chair | John Fillo, Principal Consultant, Trinity Consultants, Inc.; Maren Seibold

G1.3 USING EGRID DATA FOR CARBON FOOTPRINTING ELECTRICITY PURCHASES
Co-Chair | Art Diem, Environmental Engineer, U.S. Environmental Protection Agency; Susy S. Rothschild and Cristina Quiroz, TranSystems; E.H. Pechan

G1.4 REDUCING THE CARBON FOOTPRINT IN THE AMERICAS: IS IT WORTH THE COST?
James Taylor, Senior Fellow, Environment Policy, The Heartland Institute

G1.5 EFFECTIVE MESSAGING IN TODAY’S GREEN MARKET
Carolyn Pats, President, Mind Over Markets

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Joe Abraham, Office of Sustainability Director, The University of Arizona

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Jesse Frederick, Vice President, W2 Inc.

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Co-Chair | Lawrence Goldenersh, President and CEO, Enviance

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Lisa Thompson, Senior Consultant, IHS

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Co-Chair | Lisa Peavy, Product Manager, Environmental Systems Corporation

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Christoph Meirrenken, Research Scientist, Earth Institute at Columbia; Klaus Lackner

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Mark Dihinola, Partner, ERM; John Sherwell, MD DNR Power Plant Research Program

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Gunther Saini, Senior Environmental Engineer, RTP Environmental Associates, Inc.; Gary McCutchen and Colin Campbell

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Co-Chair | Sara Head, Vice President, AECOM; Howard Balentine

G3.4 THE FIRST LIMIT - COAL-FIRED GHG BACT CASE STUDY
Michael Zebell, Senior Consultant, ERM; Steven Kohl, Warner Norcross & Judd LLP

G3.5 SHOULD THERE BE GHG BACT FOR NEW NATURAL GAS FIRED POWER PLANTS?
Co-Chair | Victoria Evans, Practice Lead, Climate Change Services, ERM; Scott Weaver

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Doug Huxley, Principal Technologist, CH2M HILL

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Leigh Ann Baird, Vice President - Strategic Planning and Sustainability, Ingram Barge Company

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Michael Pelzí, Manager - Reporting, Hess Corporation

G4.3 PROTOCOLS FOR SUPPLY- AND DEMAND-SIDE GHG REDUCTIONS
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Jun-Ki Choi, Goldhaber Distinguished Fellow, Brookhaven National Laboratory

G4.5 BREAKING DOWN BARRIERS TO THE CARBON MARKET
Dick Kempka, Vice-President, The Climate Trust

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Ted Atwood, President, Polar Technology LLC; Chase Sanders

G5.2 DRAFTING ARBITRATION CLAUSES FOR ENERGY COMPANIES
David Cox, Vice President, American Arbitration Association; Maureen Byers

G5.3 RETHINKING OUR CLIMATE METRICS FROM AN LCA STANDPOINT: SERC CASE STUDY
Co-Chair | Stan Rhodes, President & CEO, Scientific Certification Systems; Keith Kilpack

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Mike Baghoosian, Solution Engineer, Northrop Grumman Corporation

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Kenneth Weiss, Managing Partner - Global Air and Climate Change Practice, ERM

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Allison Wood, Partner, Hunton & Williams LLP

G6.3 FEDERAL GHG REGULATION: IMPLICATIONS FOR BUSINESS
Co-Chair | Marisa Buchanan, Energy Analyst, Bloomberg Government

G6.4 WHAT TO DO WHEN EPA BECOMES THE PERMITTING AUTHORITY
Eric Quat, Project Engineer, Zephyr Environmental Corporation

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Marc Dillon, Product Manager, IHS

G6.6 “SUBJECT TO REGULATION” - THE ROSETTA STONE FOR GHG PSD APPLICABILITY
Angela Morrison, Partner, Hopping Green & Sams, P.A
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Matthew Harrison, National Practice Leader, Project Manager, URS Corporation

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➤ Co-Chair | Ron Crum, Vice President, URS Corporation

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Shirley Pearson, P.E., Vice President, Principal Engineer, URS Corporation

G7.4 DO I NEED TO WORRY ABOUT CARBON CAPTURE AND SEQUESTRATION?
Matthew Harrison, National Practice Leader, Project Manager, URS Corporation

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Ron Crum, Vice President, URS Corporation

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Greg San Martin, Sr. GHG Engineer, URS Corporation

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Anne Runnalls, Senior Air Quality Engineer, URS Corporation

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G8.3 COMPLEMENTING CAP AND TRADE: AN ASSESSMENT OF CALIFORNIA’S CLIMATE POLICIES
Obadiah Bartholomy, Project Manager, Sacramento Municipal Utility District

G8.4 SUMMARY - STRATEGIES FOR GHG BACT – WHAT HAVE WE LEARNED TODAY?
Ron Crum, Vice President, URS Corporation

G8.5 WORKSHOP WRAP-UP – PANEL DISCUSSION WITH Q&A
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H1. ALGAE

H1.1 ACCORDION PHOTOBIOREACTOR FOR MICROALGAE PRODUCTION
➤ Co-Chair | Joel Cuello, Professor, The University of Arizona; Takamori Hoshino, Sara Kuwahara, Cody Brown and Joseph Ley

H1.2 OUR MOST CRITICAL RENEWABLE ENERGY -- FOOD
➤ Co-Chair | Mark Edwards, Professor, Arizona State University

H1.3 FLOATING PHOTOBIOREACTORS FOR MICROALGAE GROWTH IN WASTEWATER
Brian McConnell, Undergraduate Student, University of New Hampshire; Dr. Ihab Farag

H1.4 SALT-WATER MICROALGAE GROWTH FOR BIODIESEL PRODUCTION IN A HOT CLIMATE OPEN POND SYSTEM
Rebecca Wilson, Student, University of New Hampshire; Ihab H Farag

H1.5 SOLAR PHOTOBIOREACTORS FOR MICROALGAE CULTURES - VALLE DEL CAUCA, COLOMBIA
Jose Ramirez, M.Sc. Engineering, Universidad Autonoma de Occidente

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➤ Co-Chair | Lawrence Boul, Sr. Development Professional, Praxair, Inc.; Bradley Damstedt, Hisashi Kobayashi, and David Thompson

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➤ Alicia Smith, Partner, ERM

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Lori Brandes, Associate, Sterne, Kessler, Goldstein & Fox P.L.L.C.; Peter Jackman;

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Jose Ramirez, M.Sc. Engineer, Universidad Autonoma de Occidente; Julian Lasso

H2.5 NOVEL INTEGRATED CATALYTIC HOT SYNGAS CLEANUP
Austin Vaillancourt, Associate Chemical Engineer, Southern Research; Andrew Lucero, Santosh Gangwal

H2.6 FERMENTATION STUDY ON SARGASSUM SPP FOR SUSTAINABLE BIOETHANOL PRODUCTION
Myra Borines, Ph.D. Candidate, The University of Arizona; Joel L. Cuello, U of Arizona, Rizalinda DeLeon, Univ. of the Philippines

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Barry Edwards, Director of Utilities & Engineering, County of Catawba

H3.3 RENEWABLE SOLID FUELS VIA HTC OF CELLULOSIC BIOMASS
➤ Co-Chair | Kent Hoekman, Research Professor, Desert Research Institute; Amber Broch, Curtis Robbins and Wei Yan, Desert Research Institute; Chuck Coronea, Univ. of Nevada, Reno; Larry Felix, Gas Technology Institute

H3.4 GIANT KING GRASS-- DEDICATED ENERGY CROP FOR BIOENERGY AND BIOFUELS
Carl Kukkonen, CEO, VIASPACE Inc.

H3.5 NEW BIOMASS BOILERS: CLEAN, BUT TRICKY AIR PERMIT COMPLIANCE ISSUES
➤ Co-Chair | Brian Petermann, Mgr. - Air Quality Compliance, Sega, Inc.
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Dave Wang, Senior Engineer, Reaction Engineering International; Marc Cremer, Reaction Engineering International; Robert Bursey and Ishaq Jameel, Clyde Bergemann
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Jeff Wilson, Biomass R&D Manager, Southern Company; Tom Kimmimer & Moore Ventures
H4.3 THE CARBON NEUTRALITY OF CERTAIN BIOMASS FEEDSTOCK MIXES
Jeff Wilson, Biomass R&D Manager, Southern Company; Tom Kimmimer & Moore Ventures
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Co-Chair | Chris Zygarlicke, Deputy Associate Director for Research, EERC
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J D Lindeberg, President & CFO, Resource Systems Group, Inc.
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John Hinckley, Senior Consultant, Resource Systems Group, Inc.

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Brett Wightman, Director of Power Sales, Sopogy and Van Matsushige
H5.4 AQUEOUS SLUDGE GASIFICATION TECHNOLOGIES
Was Kowalczuk, Chemical Engineer, Southern Research Institute; Tim Hansen
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Co-Chair | Judy Yorke, President, Yorke Engineering, LLC
H5.6 BIOGAS PURIFICATION SYSTEM FOR DISTRIBUTED POWER GENERATION
Gokhan Aptekein, Vice President, TDA Research

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Co-Chair | Leah Blinn, Manager of Environmental Compliance Services, NGE
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Robby White, Sr. Scientist, Geosyntec Consultants
H6.3 LANDFILL GAS USE AT THE GODDARD SPACE FLIGHT CENTER
Joseph Martin, Program Manager, NASA Goddard Space Flight Center - Straughan Environmental; Kathleen Moxley
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Co-Chair | Tim Hansen, Program Leader, Southern Research Institute
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Jeffrey Pierce, Senior Vice President, SCS Energy
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- Ivan Cooper, Practice Leader, Golder Associates
11.2 ENVIRONMENTAL COMPARATIVE ANALYSIS OF BEST-IN-CLASS UTILITY COMPANIES
- Lee Matthews, Senior Manager Environmental Performance, TVA
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- Mike Remsberg, Director, Trinity Consultants; Wendy Merz and Patty Centofanti
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- Brian Keane, President, SmartPower
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- Paul Alvarez, Principal and Electric Utility Practice Leader, MetaVu, Inc.
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- Leah Bissonette, Managing Partner, ERM; Andy Churr

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- Frank Elswick, Western Regional Manager, Midwest Industrial Supply, Inc.
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- CR Herro, Vice President of Environmental Affairs, Meritage Homes
12.3 LINKING ENERGY GENERATION WITH WATER CONSUMPTION, ENVIRONMENTAL IMPACT, AND ECONOMIC FACTORS
- Don Ristic, Energy Systems, ANL
12.4 LIFE CYCLE THINKING IN THE ENERGY SECTOR - METHODS, TOOLS & ITS APPLICATION
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- Co-Chair | Mark Serwinowski, CEO and Founder, MetaVu, Inc.
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- Co-Chair | Richard Hovan, Manager - Environmental Solutions, Rockwell Automation
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- Todd Maki, Project Manager - Sustainability, Electric Power Research Institute (EPRI)
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- Co-Chair | Chris Haddock, Chief Executive Officer, Enablon
13.4 INNOVATION OF FINANCIAL REPORTS BASED ON THE SUSTAINABILITY
- Sun Mei, Student, Waseda University; Nagata Katsuya and Onoda Hiroshi

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14.1 ISO 26000: GUIDANCE ON SOCIAL RESPONSIBILITY FOR A UTILITY
- Co-Chair | Colin Isaacs, CEO, Canadian Institute for Business & the Environment; Carole Burnham, Carole Burnham Consulting
14.2 UTILIZING THE BRAIN TO CREATE A CULTURE THAT SUPPORTS SUSTAINABILITY
- Michelle Brown, Psychologist, Sensis; Elizabeth Prazeres
14.3 THE ORIGINS OF ENTERPRISE SUSTAINABILITY MANAGEMENT
- Scott Lockhart, Vice President - EHS and Sustainability Solutions, IHS
14.4 LEVERAGING PSYCHOLOGY TO INTEGRATE SUSTAINABILITY AND SAFETY INITIATIVES
- Autumn Krauss, Chief Scientist, Sensis
14.5 SUSTAINABLE EMPLOYEE COMMUTING - PICKING SCOPE 3 GHG REDUCTION BATTLES
- Devin Hodge, Sustainability Program Manager, Argonne National Laboratory
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- Dr. Bapanaiah Penugonda, NYU; Vikas Patel, Anuja Patel, Anette Cutugno

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- Christopher Harto, Energy and Environmental Analyst, Argonne National Laboratory; Yuejun Yan, Yonas Demissie, and Vincent Tidwell
15.2 A DECISION SUPPORT SYSTEM FOR INTEGRATED WATER MANAGEMENT
- Gwendolyn Woods, Graduate Assistant - Research, The University of Arizona; Daocong Kang, Kevin Lansey, Robert Arnold, The University of Arizona; David Eberle, Jeremy Smith, Stephen Davis, Malcolm Pinie
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- Co-Chair | Daniel Christodoss, Asset Manager, Southwest Water Company
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- Thomas Mullenberg, Sr. Industrial Sales Manager, MIOX Corporation

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- Miranda Yost, Associate, Hunton & Williams
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- Joseph Nelson, Member, Van Ness Feldman, P.C.
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- Co-Chair | Dan Whalen, Assistant Vice President, Hanson Professional Services Inc.; Lee Bloomer
16.4 DEVELOPMENT OF A WATER CONSERVATION TOOL FOR POWER GENERATORS
- Tina Petersen, Water Resources Engineer, CDM; Randi Kim
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<td><strong>17.4 RESULTS OF EPRI’S 316(B) CLOSED-CYCLE COOLING RETROFIT RESEARCH PROGRAM</strong></td>
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<tr>
<td>David Bailey, Sr. Project Manager, Electric Power Research Institute</td>
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<td><strong>17.5 EVALUATING TECHNOLOGIES TO ACHIEVE THE GREAT LAKES WATER QUALITY OBJECTIVE FOR HG IN WASTEWATER</strong></td>
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<td>Patricia Gillerwater, Chemical Engineer, Argonne National Laboratory; Cristina Negri, Meltem Urgan Demirtas and Seth Snyder</td>
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<td>Averill Edwards, Associate, Winston &amp; Strawn LLP</td>
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<td><strong>18. WATER &amp; ELECTRIC UTILITIES II</strong></td>
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<td>EPR</td>
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<td><strong>18.1 DEVELOPING ADVANCED WATER CONSERVING COOLING OPTIONS FOR EXISTING &amp; NEW POWER GENERATION PLANTS</strong></td>
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<td>Co-Chair</td>
<td>Kent Zammit, Senior Program Manager, Electric Power Research Institute</td>
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<td>Kenneth Cushing, Manager - Environmental Field Services, Southern Research Institute; Mr. Jay Was, Southern Company; Dr. George Offen, EPRI</td>
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<td>Paul Chu, Senior Project Manager, Electric Power Research Institute</td>
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<td>Bill Garrett, Supervisor, Alabama Power Company, GSC #8 ; Jon Porstein</td>
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<td><strong>18.5 IMPLICATIONS OF EPA’S PROPOSED CLEAN WATER ACT 316(B) REGULATIONS ON THE POWER INDUSTRY</strong></td>
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<td>Kurtis Schlicht, Senior Consultant, ERM; Robert Carpenter</td>
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<td>Cha-Chi Fan, Mathematical Statistician, US Energy Information Administration</td>
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<td><strong>J1.5 WHAT UTILITY BILLS REVEAL ABOUT A BUILDING</strong></td>
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| J2. ENERGY |
| **J2.2 CERTIFICATION FOR HOME ENERGY UPGRADES** |
| Richard Knaub, Project Manager, NREL; Amy Holland |
| **J2.3 A MATCHED PAIR OF HOMES FOR RETROFIT TECHNOLOGY DEMONSTRATIONS** |
| Co-Chair | Graham Parker, Senior Staff Engineer, Pacific Northwest National Laboratory; Subrato Chandra |
| **J2.4 PORTFOLIO APPROACH TO ENERGY PERFORMANCE IN A LARGE MULTI-FAMILY BUILDING STOCK** |
| David Kuperberg, CEO, FS Energy |
| **J2.5 WHY ASSET RATINGS FAIL** |
| Elton Sherwin, Sr. Managing Director, Ridgewood Capital |
| **J2.6 TRADITIONAL, BEAUTIFUL & SUSTAINABLE: STONE HOUSES OF ASIR, SAUDI ARABIA** |
| Hisham Mortada, Professor of Architecture, King Abdul Aziz University |

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| J3. SMART GRID |
| **J3.1 MICROGRIDS** |
| Brian Lenane, Senior Principal, SRA International |
| **J3.2 A SMARTER GRID SUPPORTS COMMUNAL MICROGRIDS** |
| Terry Mohn, Founder, General MicroGrids, Inc. |
| **J3.3 COMPLIANCE, CYBER SECURITY, & SMARTGRID INITIATIVES & IMPLEMENTATION** |
| Rahul Chhabra, Security & Compliance Consultant, Burns & McDonnell Engineering; Jerome Farajhanson |
| **J3.4 MAXIMIZING CUSTOMER BENEFITS: PERFORMANCE MEASUREMENT & ACTION STEPS** |
| Co-Chair | Paul Alvarez, Principal and Electric Utility Practice Leader, MetaVu, Inc. |
| **J3.5 BRINGING ORDER FROM COMPLEXITY: ENTERPRISE ARCHITECTURE & THE SMART GRID** |
| Gustav Hoyer, Director, Alvarez & Marsal; Rashmi Kumar |

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J4.1 NEXT GEN LARGE AREA LIGHTING: MORE LIGHT, LESS ENERGY
Greg Davis, CTO, Lumetric

J4.2 METHODS FOR MINIMIZING ENERGY COST FOR LABORATORY EXHAUST SYSTEMS
Ron Petersen, Vice President, CPP, Inc.

J4.3 IF YOU WANT TO MANAGE, YOU NEED TO MEASURE. THE IMPORTANCE OF AIRFLOW MEASUREMENT!
Tom Checksfield, Vice President, General Manager, Tek-Air Systems Inc.

J4.4 WHITE TAGS STREAMLINE STATE ENERGY EFFICIENCY COMPLIANCE
Alden Hathaway, SVP Business Development, Sterling Planet

J4.5 DIAGNOSTICS & TREATMENT INCLUDING STEP BY STEP INSTRUCTION TO MAKE YOUR SYSTEM FIT & SUSTAINABLE
➤Co-Chair | Hemant Mehta, President, WM Group Engineers, P.C.

J4.6 LEVERAGING INDUSTRIAL ENERGY OPTIMIZATION FOR HIGHER PROFITABILITY
Phil Kaufman, Business Manager - Power & Energy Management, Rockwell Automation

1PM – 3PM | J5. ENERGY EFFICIENCY & MANAGEMENT

J5.1 FINANCING OF UTILITY ENERGY EFFICIENCY LOANS
Austin Whitman, Vice President, M.J. Bradley & Associates

J5.2 A METHOD TO IMPROVE POWER PLANT EFFICIENCY AND POWER
Zhen Fan, R&D Project Manager, Foster Wheeler R&D; Andy Seltzer and Horst Hack

J5.3 EFFICIENT FOSSIL FUEL PROCUREMENT IN JAPANESE ELECTRIC UTILITY INDUSTRY
Misao Endo, Visiting Researcher, Central Research Institute of Electric Power Industry (CRIEPI)

J5.4 THE GREEN ZONE: CHANGING LAND USE REGULATIONS
Michael Robinson, Partner, Perkins Cole LLP

J5.5 HIGH INTENSITY LIGHTING WITH NEXT GENERATION LIGHT SOURCES
➤Co-Chair | Ahmed Shuja, CTO, BritePointe Inc.

J5.6 ROADMAP FOR IMPLEMENTATION OF THE ‘NEXT GENERATION ENERGY MANAGEMENT INFORMATION SOLUTION’
➤Co-Chair | Sloan Whiteley, Senior Business Consultant / Analyst, AVEVA

3:30PM – 5:30PM | J6. ENERGY CONSERVATION & STORAGE

J6.1 POTENTIAL ENERGY SAVINGS OF A DC POWERED MICROGRID OFFICE PROJECT
Melanie Johnson, Research EE, U.S. Army Corps of Engineers; William J. Stein

J6.2 OPPORTUNITIES IN HIGH POWER ENERGY STORAGE
Robert Misback, Director - Energy Storage, Altairnano Inc.

J6.3 NEWS FLASH - CUSTOMERS ARE VOTERS
Lawrence Silverman, Chairman and Chief Scientist, GridPlex Networks

J6.4 CAN WE DEVELOP ENERGY STORAGE THAT IS BOTH STABLE AND COST-EFFECTIVE?
➤Co-Chair | Rusty Speidel, VP - Marketing, Encell Technology

J6.5 GREEN IT FOR DATA CENTERS: EFFICIENCIES THROUGH MODELING, HARDWARE SELECTION AND VIRTUALIZATION
Jeff Riegie, Energy Program Manager, AMEC

J6.6 ENERGY CONSERVATION HYBRID STREET SWEEPER
Toshihiko Furukawa, Senior Manager, United Chemi-Con; Abas Goodarzi, US Hybrid

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- Our biofuels reduce the cost of hazardous ash disposal

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**K1. SMALL SCALE RENEWABLE & ELECTRIC UTILITIES**

**K1.1 CHALLENGES WITH COMMUNITY RENEWABLE ENERGY PROJECT DEPLOYMENT**
Blaine Sisson-Lebrilla, Renewable Energy Program Manager, Sacramento Municipal Utilities District; Valentino Tiangco, Marco Lemes and Kathleen Ave

**K1.2 UTILITY OWNERSHIP VS. THIRD PARTY FINANCING OF DG ASSETS**
◆ Co-Chair | Ryan Hurley, Partner, Rose Law Group

**K1.3 NUCLEAR ASSISTED BIO-FUEL PRODUCTION VIA HIGH TEMP. STEAM ELECTROLYSIS**
◆ Co-Chair | Grant Hawkes, Research Engineer, Idaho National Laboratory; Michael McKellar, James O’Brien

**K1.4 THE EVOLVING ROLE OF DISTRIBUTED GENERATION ON THE U.S. POWER SECTOR**
Elias Hinckley, Partner, Kilpatrick Townsend

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**K2. DISTRIBUTED GENERATION**

**K2.1 DISTRIBUTED GENERATION**
◆ Co-Chair | Dennis Affmann, Co-Chair Global Clean Energy Group, Hogan Lovells USA

**K2.2 RENEWABLES AT ALTITUDE -- ROCKY MOUNTAIN HIGHS AND LOWS**
Karl Kumli, Vice-President & Shareholder, Dietze and Davis, P.C.; Mark Detsky

**K2.3 SMALL & MID SIZE COMMERCIAL RENEWABLE & DISTRIBUTED GENERATION PROJECTS IN THE MID-ATLANTIC REGION**
Dan Skowronski, Attorney, Saul Ewing LLP

**K2.4 TRANSFORMING DISTRIBUTED GENERATION**
Asim Hussain, Director - Product Marketing, Bloom Energy

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**K3. RENEWABLE DEVELOPMENT ANALYSIS**

**K3.1 IMPROVING LANDFILL FINANCIAL PERFORMANCE WITH THE ENERGY PARK CONCEPT**
Kevin Brown, Principal, Golder Associates Inc.; George Deardorff

**K3.2 SELECTING RENEWABLE ENERGY PROCESSES**
◆ Co-Chair | Peter Flynn, Professor, University of Alberta; Erin Searcy, Idaho National Laboratory

**K3.3 FIVE KEY DRIVERS YOU NEED TO KNOW TO UNDERSTAND THE RENEWABLE ENERGY MARKETPLACE**
George Kehler, Director - Sustainability Programs, Fellen-McCord

**K3.4 RENEWABLE ENERGY DEVELOPMENT FOR A MILITARY TRAINING COMPLEX IN AFGHANISTAN**
William Stein, Research Mechanical Engineer, U.S. Army ERDC-CERL; Benjamin Barnes

**K3.5 A REVOLUTIONARY GREEN NUCLEAR POWER SOURCE BASED ON LOW ENERGY NUCLEAR REACTIONS (LENRS) IN GAS LOADED NANOPARTICLES**
George H. Miley, Professor, Univ of IL; Xiaoling Yang

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**K4. RENEWABLE PROJECT DEVELOPMENT**

**K4.1 TRANSACTION STRUCTURES FOR RENEWABLE ENERGY**
◆ Co-Chair | James Duffy, Partner, Nixon Peabody LLP

**K4.2 A CASE FOR INCORPORATION VISUAL RESOURCES CONSIDERATIONS INTO EARLY PROJECT SITING AND DESIGN**
Louise Kling, Senior Landscape Ecologist / Analyst, URS; Dautis Pearson and Dave Lawrence

**K4.3 BEST PRACTICES FOR ESTABLISHMENT OF A JOINT VENTURE**
Michael Manuel, Principal, Goldberg Kahn Ltd.

**K4.4 RENEWABLE ENERGY M&A: TRENDS AND RATIONALES**
Thomas Paschall, Senior Associate, Milbank Tweed Hadley & McCloy LLP

**K4.5 PROJECTING FUTURE REC PRICING**
Melissa Ritter, Director Environmental Markets & Policy, Pace Global Energy Services

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**K5. IP & NEW TECHNOLOGY**

**K5.1 PROTECTING YOUR INTELLECTUAL ASSETS IN THE RENEWABLE ENERGY MARKETS**
Bryan Treglia, Registered Patent Attorney, Quarles & Brady LLP

**K5.2 WHAT YOU NEED TO KNOW NOW ABOUT THE AMERICA INVENTS ACT OF 2011**
Peter Jackman, Director, Sterne, Kessler, Goldstein & Fox P.L.L.C.

**K5.3 CLEAN ENERGY PLANNING**
◆ Co-Chair | Sam Scupham, Renewables, Black & Veatch Corporation

**K5.4 CLEAN FUEL FOR MULTI-MEGAWATT ELECTRICAL POWER GENERATION & HEATING**
Howard Phillips, Individual Inventor & Professor Emeritus (retired); DBA Phillips’s Company

**K5.5 INTELLECTUAL PROPERTY OPTIONS FOR SOFTWARE-BASED TECHNOLOGIES**
Tim Smith, Consultant/Patent Agent, King & Spalding LLP

**K5.6 HOW PATENT REFORM AFFECTS THE TECHNOLOGIES IN THE EMISSION CONTROL & RENEWABLE SPACE**
Tim Smith, Consultant/Patent Agent, King & Spalding LLP

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**K6. SOLAR, PV**

**K6.1 CASE STUDIES ON IMPACTS OF HIGH PV PENETRATIONS ON DISTRIBUTION SYSTEMS**
◆ Co-Chair | Ronald Davis, Director T&D, BEW Engineering; Emma Stewart

**K6.2 NON-RESIDENTIAL SOLAR ECONOMICS: THE CHALLENGE OF DEMAND CHARGES**
Peter Hamilton, Director of Energy Services, California Center for Sustainable Energy

**K6.3 SOLAR “INTELLIGENT DESIGN” OF THE FLAT COMMERCIAL ROOFTOP**
Edward O’Brien, Partner, SolarDock

**K6.4 THIRD GENERATION SOLAR TECHNOLOGY: TRANSFORMING BUILDINGS INTO POWER PLANTS WITH DSC**
(Co-chair) Marc Thomas, CEO, Dyosol Inc.

**K6.5 NEW BREAKTHROUGH IN SOLAR ROOFTOP SAFETY**
Chris Reich, Dir. Business Development, AMtec Solar

**K6.6 PV AND CPV PERFORMANCE IN EXTREME ENVIRONMENTS**
Abdulla Al Shater, Project Leader Forensic Failure Analysis Division; Professor Samir Fakhro, Graeme Coomber, and Kevin O’Brien
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L4. POWER PLANT & BOILER OPTIMIZATION

L4.1 Fast Response NOx Monitoring for Better SCR Optimization During Transient Conditions
Ken Greaves, VP Sales & Marketing, CEMTEK Instruments Inc

L4.2 Upgrading Your Plant While Updating Your AGC
►Co-Chair | Tim Hillman, Project Manager, Black & Veatch Corporation
L4.3 Optimizing Catalyst Performance Aids in Lowering Operational and Management Costs
►Co-Chair | Volker Rummelhoft, VP Catalyst Mgmt., Technologies, Fuel Tech & Santek Cooper Cross Station; Howard Bensivy, Kent Shultz and Michael Davis

L4.4 Portfolio Management of Generation Assets
Gill Eapen, CEO, Decision Options, LLC

L4.5 Lowering Coal-Fired NOx Through Smart Deterministic Combustion Optimization
Bruce Kelly, Manager - Plant Operations Services, Sega Inc.; Kenneth Luebber, KCPL; Donald Hatch, Siemens

L4.6 Zonal Combustion Monitoring for Improved Combustion Performance at LG&E, Mill Creek Unit 3
Neil Widmer, Product Manager, GE Energy; Santash Nareddy, Antonio Marquez, David Moyeda, GE; Daniel Kremer, Nathaniel Dorwart; LG&E

L5. EHS & EMIS

L5.1 First Responder Training
Henry Ryng, President, CommandPlan LLC; Dan Suhr

L5.2 Transitioning to GHS
►Co-Chair | Duane Burkett, Chief Operating Officer, Safetec
L5.3 EHS - Making It Manageable and Transparent
Milan Dayalal, Vice President, President, Dakota Software Corporation

L5.4 Improving Corporate Productivity Through Enterprise Data Reporting
Ray Fain, Director of Engineering, QA Support, LP

L5.5 How to Deploy & Manage Your Automated External Defibrillator Program
►Co-Chair | Brian Leonard, CEO, Code Red Services

L5.6 EPA's Non-Hazardous Secondary Materials
Carroll McGuffey, Associate, Troutman Sanders LLP

L6. EHS & RISK MANAGEMENT

L6.1 Risk Management Programs Create Sustainable Safety and Security Operations at Power Plants
Jeff Simmerman, Lieutenant Commander, ERM

L6.2 Digital Tools for Managing Environmental, Health & Safety Responsibilities
Brad Condley, Environmental Compliance Supervisor, East Kentucky Power Cooperative; Jennifer Cave, Greenebaum Doll & McDonald PLLC.; Milan Dayalal, Dakota Software Corporation

L6.3 Risk Profiling for Improved Environmental Safety
Eric Morris, Product Manager, IHS

L6.4 Issues to Consider in Your 2012 Insurance Renewal
Vivek Chopra, Partner, Perkins Coie LLP

L6.5 Cloud-Based Compliance: The New Age of Business Performance
Graeme Dykes, Sales Manager, Enviance

L6.6 An Integrated Perspective on Creating Opportunity from Risk
►Co-Chair | Gary Vicinus, Executive Vice President, Pace Global Energy Services
## Marketing Opportunities

### Advertise at Networking Events

- Company logo displayed on 2000 meal tickets
  - Company Logo on Meal Tickets used by all registered delegates
  - Buffet Style meals, hors d'oeuvres, cash bar served in exhibit hall.
  - Marketing Advertisement in program book, website, banner & slideshow in exhibit hall

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<td>5 to 7 pm</td>
<td>Monday 1/28/13</td>
<td>Available</td>
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<tr>
<td>Networking Receptions</td>
<td>5 to 7 pm</td>
<td>Tuesday 1/29/13</td>
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<td>Networking Lunches</td>
<td>12 to 1 pm</td>
<td>Monday 1/28/13</td>
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**Sponsors Breakfast & Coffee Tickets ($3,000)**

- Redeemable at Hyatt and Sheraton
- Monday 1/28/13
- Tuesday 1/29/13
- Wednesday 2/3/13

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Contact EUEC by Feb 3
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#### Delegate Lanyards, Tote Bags & Hotel Keys ($8,500)

(Two Sponsorships)
Your company logo printed on lanyards or tote bags distributed to 2,000+ attendees.

#### Brochure Distribution at Registration ($500)

Distribute your company brochures or flyers at the registration area for the duration of the event.

#### Golf Tournament Sponsorships ($500)

Sponsor the Breakfast $1,000, Luncheon, $2,000. Sponsor prizes awarded at the EUEC Golf Tournament Luncheon on Sunday, January 29, 2012, at the Legacy Golf Resort.

### Contact EUEC:

info@euec.com or
call 520-615-3535
Pre-Conference Workshops & Golf
Sunday, January 29th

Workshop 1
Permitting & Compliance
Eric Hiser, Jorden, Bischoff & Hiser
This seminar will provide participants with critical information on new developments in clean air regulation, including recent developments in NAAQS, new source review, NESHAP regulation and GHG reporting. The seminar will also address current EPA enforcement priorities, planning and preparing for an inspection, and using the permit process to minimize your enforcement exposure.

Workshop 2
Challenges for Compliance With Short-term PM2.5, NO2, and SO2 Ambient Standards
Robert Twanchuk, CCM, AECOM
Robert Paine, CCM, GEP (AECOM)
This workshop will provide an overview of PM2.5, NO2, and SO2 NAAQS (and PSD increment, as appropriate), implementation and dispersion modeling procedures, and will also review the current status of litigation filed against USEPA to challenge the new 1-hour NAAQS for NO2 and SO2.

Workshop 3
Emerging Air Quality, Greenhouse Gas and Energy Requirements
Rich Pandullo, Trinity Consultants
Allan F. Bedwell, CantorCO2e
Power generators are facing a tsunami of emerging new regulations that will affect their ability to operate cost-effectively. These include Federal Clean Air Act regulations such as the GHG Tailoring Rule, Boiler MACT, and Clean Air Transport Rule — that will impose new emission limitations and operational restrictions on combustion sources.

Workshop 4
GHG Inventory Management
Victoria Evans, ERIM
This workshop will focus on practical guidance for developing GHG inventory management plans, inventories and reductions in the context of emerging regulatory and voluntary programs. The course is structured toward developing an entity-wide GHG inventory. This workshop addresses organizational boundaries, source identification, quantification of emissions, base year recalculation, inventory quality management, and preparation for third-party verification. The exercises will allow participants to practice and discuss techniques associated with GHG inventories.

Golf Tournament
The Legacy Golf Resort
32nd St., Phoenix, AZ
Sunday January 29, 2012
7:30 am Breakfast
8:30 am shotgun start
1:00 pm Awards Luncheon

Cost:
$140 with clubs
$100 without clubs

Includes:
Green fees, cart, range balls, bag handling, gratuities & commissions
Breakfast & Awards Lunch in Pavilion.

Check Option for Golf Tournament when you register online or
Contact:
info@euec.com
Ph: 520-615-3535
www.euec.com

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You Decide
Send in your survey and let us know what city you would like to attend EUEC in next.

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Ph: (602) 252-1234
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Ph: (602) 252-2500
EUEC RATE: $235

RADISSON PHOENIX
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Phoenix, AZ 85013
Ph: (602) 604-4900
EUEC RATE: $99
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- One Free Registration
- One speaking opportunity
- Fully Furnished 10'x10' booth
- 6 draped table with 2 chairs
- Marketing logo, website link
- 9 Networking events in Exhibit Hall
- Resource book with attendee list
- 50% discount at $695 for exhibitors
- iPhone App to network with EUEC delegates

Company Name:

Level of Participation:
- Gold (20'x20' Booth) $25,000
- Silver Front Row (20'x10' Booth) $10,000
- Bronze Front (10'x10' Corner) $5,000
- Premium Exhibitor (10'x10' Corner) $3,500
- Standard Exhibitor (10'x10' Booth) $3,000

Exhibit Booth Selection:
Please select your preferred choice of Booth # from the exhibit booth layout.

Exhibitors:
Please list the names of company employees to attend EUEC 2012 at a 50% discount $695 ($1395 regular)

Billing Information:
Exhibit Company Name:

Authorized Signature (Required):

Show Rules: Application implies that exhibitor will abide by Conference show rules. Please copy this contract for your files. Exhibitor hereby assumes entire responsibility and hereby agrees to protect, defend, indemnify and save the Phoenix Convention Center, its owners, its operator, EUEC, and each of its respective parents, subsidiaries, affiliates, employees, directors and agents harmless from all claims, losses or damages to persons or property, governmental charges or fines and attorney's fees arising out of or caused by its installation, removal, maintenance, occupancy or use of the exhibit premises or as a result thereof, including any such liability caused by the willful negligence of the Convention Center and its employees and agents. Exhibitor shall assume and keep in force during the term of the installation and use of the exhibit premises policies of Comprehensive General Liability insurance and Contractual Liability insurance, issuing and specifically referring to the Contractual Liability set forth in this Exhibit Agreement in an amount not less than $1,000,000 Combined Single Limit for personal injury and property damage. The group agrees to provide a Certificate of Insurance evidencing the coverage described above.

Cancellation Policy: 50% refund is available until October 1, 2011.