

What is EUEC?

EUEC2017: The 20th Annual Energy, Utility & Environment Conference, is USA's largest professional networking & educational event of its kind, held February 8 to 10, 2017, at the San Diego Convention Center, San Diego, CA, with 1,500 delegates, 400 speakers and 150 exhibits.

HISTORY: The first EUEC conference was held in 1995 in Tempe, Arizona. 17 annual EUEC conferences were held in Arizona until 2014, and then moved to San Diego in 2015.

SCHEDULE

EUEC 2016 - February 3 to 5, 2016 in San Diego, CA.

EUEC 2017 - February 8 to 10, 2017 in San Diego, CA

EUEC 2018 - March 5 to 7, 2018 in San Diego, CA

See www.euec.com

USA's Largest
EUEC2017
Energy, Utility & Environment Conference
Feb 8 - 10 | San Diego, CA

20th Annual Conference & Expo
Wednesday Feb 8 to Friday Feb 10, 2017

San Diego Convention Center
111 W Harbor Dr., San Diego, CA 92101

1,500 ATTENDEES

400 SPEAKERS

150 EXHIBITS

Program Guide

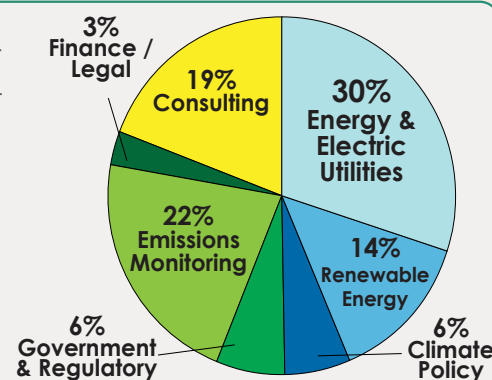
TECHNICAL TRACKS

- A. REGULATORY UPDATE
- B. CEMS, AQ & MODELING
- C. HG, DSI, MATS, ACI
- D. ENERGY POLICY & SECURITY
- E. SO₂, NO_x, SCR
- F. RE, SOLAR, WIND, NUCLEAR
- G. O&M, EHS, DDD
- H. GHG, ELG, CCS & CCR
- I. WATER, 316(b), FGD
- J. BATTERY & STORAGE

Who Attended

Year Delegates

EUEC2016	1,586
EUEC2015	1,736
EUEC2014	1,605
EUEC2013	1,705
EUEC2012	2,037
EUEC2011	1,830
EUEC2010	1,945



REGISTRATION COST

	Online	On-Site
Attendee - Registration	\$1195	\$1395
Utility/Gov't/VIP	\$695	\$1395
One Day	\$495	\$895

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

USA's Largest
EUEC2018

ENERGY, UTILITY & ENVIRONMENT CONFERENCE

Save the Dates! **March 5 - 7, 2018**

21st Annual EUEC 2018 | San Diego Convention Center, San Diego CA

EUEC | P.O. Box 66076, Tucson, AZ 85728 |

(p) 520.615.3535 | (f) 602.296.0199 | info@euec.com | www.euec.com

Keynote Panelists:



Administrator (invited)



Joseph Giove III



Caroline Choi



Lance Pierce



Prabhu Dayal

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EUEC WELCOME RECEPTION BY THE WATERFRONT Tuesday, February 7th, 2017, 5 pm to 7 pm



Pick up complimentary hors d'oeuvres and beverage tickets
at EUEC Registration Desk

6TH ANNUAL EUEC GOLF EVENT Saturday February 11th 2017 at 8:00AM



Call golf course to reserve & pay: (855) 574-5356
Discounted EUEC Rate \$103 per Player

Rancho Bernardo Inn Golf Course
17550 Bernardo Oaks Drive
San Diego, CA 92128

Media Partners



EUEC 2017 SCHEDULE

Tuesday | Feb. 7th

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. 8th

7:00 am - 7:00 pm	Registration
12 pm - 6:00 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
4:00 pm - 6:00 pm	Networking Reception 3

Thursday | Feb. 9th

9:00 am - 6:00 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
4:00 pm - 6:00 pm	Networking Reception 7

Friday | Feb. 10th

9:00 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

ALL 8 NETWORKING EVENTS ARE HELD IN EXHIBIT HALL

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

Keynote

Wednesday, February 8, 9:00 AM - 12:00 PM
San Diego Convention Center | 111 W. Harbor Dr. | San Diego, CA.



CURRENT ACTIVITIES OF THE DOE OFFICE OF COAL & CARBON MANAGEMENT

Joseph Giove III — 9:00AM - 9:30AM

Director of Coal Business Operations
U.S. Department of Energy



EVOLVING GRID, CLEANER ENERGY AND NEW CUSTOMER SOLUTIONS

CAROLINE CHOI — 9:30AM - 10:00AM

Senior Vice President, Regulatory Affairs
Southern California Edison



ENVIRONMENTAL REGULATION AND ROLLBACK IN THE TRUMP ADMINISTRATION

THOMAS LORENZEN — 10:00 M - 10:30AM

Partner | Crowell & Moring LLP



CORPORATE CONSUMERS IN TRANSITION: INSIGHTS FROM CDP DATA

LANCE PIERCE — 10:30AM - 11:00AM

President, North America | CDP



HIGHLIGHTS OF EUEC2017

DR. PRABHU DAYAL — 11:00AM - 11:30AM

Chairman | EUEC



Mission Statement

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

EUEC 10 Tack Program At - A - Glance

Track Room #	A Room 1	B Room 2	C Room 3	D Room 4	E Room 5A
Sessions	REGULATORY UPDATE	CEMS & AIR QUALITY	MERCURY CONTROL	ENERGY POLICY & SECURITY	SO ₂ , NO _x & SCR CONTROL
Wednesday February 8					
1 1:00PM to 3:00PM	Regulatory Update - Air ◦ EEI ◦ SUTHERLAND, ASBILL & BRENNAN ◦ TRC SOLUTIONS ◦ JORDEN, HEISER & JOY ◦ HUNTON & WILLIAMS ◦ BURNS & MCDONNELL	CEMS & Air Quality ◦ RANDALL ENVIRONMENTAL ◦ MONTROSE ◦ ECO PHYSICS ◦ DR DAS ◦ THERMO FISHER ◦ MIP CEMENTREX	Hg MATS Compliance ◦ J.E. CICHANOWICZ ◦ EIA ◦ ME2C ◦ IAC ◦ ADA-ES, INC.	Energy Policy & Security ◦ MINNESOTA POWER ◦ NREL ◦ EPSILON ASSOCIATES ◦ SERA ◦ STANTEC ◦ VENABLE LLC	Control Technologies ◦ CARBONXT ◦ W.L. GORE ◦ JIANGNAN ◦ STEVE FEENEY CONS. ◦ GULF COAST ENVIR.
2 3:30PM to 5:30PM	Election Impacts on Energy ◦ THE BRATTLE GROUP ◦ VAN NISS FELDMAN ◦ BLACK & VEATCH ◦ RLS ◦ EMPS ◦ 3DEGREES	CEMS & MATS ◦ DTE ENERGY ◦ TRC SOLUTIONS ◦ MOSTARDI PLATT ◦ SICK ◦ SERA ◦ AXETRIS ◦ AAC Inc.	Activated Carbon ◦ ADA CARBON SOLUTIONS ◦ ALBEMARLE ◦ CABOT NORIT ◦ CARBONXT	Plant Conversion ◦ SECURITY INDUSTRY ◦ UTEP ◦ CASTLELIGHT ENERGY ◦ HOT ROCK ENERGY ◦ HDR, INC.	NO_x Control ◦ SARGENT & LUNDY ◦ WESTAR ENERGY ◦ MHPS ◦ GLOBAL ANALYZER ◦ TRI-MER
Thursday February 9					
3 7:30AM to 9:30AM	NAAQS & SSM Exemptions ◦ JORDEN, HEISER & JOY ◦ BLACK & VEATCH ◦ AECOM ◦ PERKINS & COIE	Regulatory Update ◦ TRC SOLUTIONS ◦ MONTROSE ◦ CARB ◦ MKS INSTRUMENTS ◦ TIGER OPTICS ◦ CPP, INC	Hg Control Technologies ◦ CABOT NORIT ◦ NOVINDA HOLDINGS ◦ POLLUTION CONTROL ◦ NCEPU	Demand & Rates ◦ EDF ◦ BURNS & MCDONNELL ◦ NERA ◦ THE ENERGY AUTHORITY ◦ FORCITE ◦ FLORIDA SOLAR ENERGY CNTR ◦ DATACAPABLE	DSI & Sorbents ◦ UNITED CONVEYOR ◦ SOLVAY CHEMICALS ◦ ADA-ES ◦ LHOIST NA ◦ ICAC ◦ FUEL TECH
4 10:00AM to 12:00PM	NSR ◦ AECOM ◦ ERM ◦ HUNTON & WILLIAMS ◦ SUTHERLAND, ASBILL & BRENNAN ◦ ZEPHYR ◦ NAQS	PM, CEMS & ESP ◦ WUNDERLICH-MALEC ◦ SUSTAINABLE SKYS ◦ ALTECH PCME ◦ GLOBAL ANALYZER	DSI & ACI ◦ CABOT NORIT ◦ UNITED CONVEYOR ◦ NOL-TEC ◦ MPR ASSOCIATES	Distributed Generation & Transmission & Distribution ◦ ERM ◦ BLACK & VEATCH ◦ CB&I ◦ HARRIS CORP ◦ FTI CONSULTING ◦ KING ABDULAZIZ UNIV.	SCR & NO_x Control ◦ EPRI ◦ SCHNEIDER ELECTRIC ◦ MHPS ◦ INERCO ◦ SERVOMEX ◦ ECO PHYSICS
5 1:00PM to 3:00PM	Clean Air Act Issues ◦ TROUTMAN SANDERS ◦ TROUTMAN SANDERS ◦ HUNTON & WILLIAMS ◦ TRINITY CONSULTANTS ◦ VIRTUAL TECHNOLOGY	Air Quality Modeling ◦ AECOM ◦ ERM ◦ TRINITY CONSULTANTS ◦ CPP, INC. ◦ EPIS, LLC	Hg Control Technologies ◦ NOVINDA HOLDINGS ◦ NALCO WATER ◦ NOVINDA HOLDINGS ◦ CHUNGBUK UNIVERSITY	GHG Policy & Forstry ◦ CADMUS ◦ ABT ASSOCIATES ◦ ACCORDANT ENERGY ◦ ARBOR DAY ◦ UNIVERSITY OF ALBERTA ◦ MILLER CTA	Remediation & Cement ◦ TRS GROUP ◦ SCHIFF HARDIN ◦ LAFARGEHOLCIM ◦ CELLTECH LLC
6 3:30PM to 5:30PM	111(d)- CPP Compliance ◦ XCEL ENERGY ◦ NAVIGANT ◦ BAKER BOTTS ◦ LAW OFFICE OF WILLIAM SMALLING ◦ ILLINOIS INSTITUTE ◦ TRC SOLUTIONS	Air Quality Modeling II ◦ ERM ◦ CPP, INC ◦ TRINITY CONSULTANTS ◦ ADVISIAN ◦ MOLEKULE	Young Power Professionals ◦ CARBONXT ◦ DTE ENERGY ◦ UNITED CONVEYOR ◦ LG&E ◦ XCEL ENERGY ◦ EAST KY POWER ◦ ICS CONSULTING	Buliding Technologies ◦ CONSTELLATION ◦ DYNAMIC AQ ◦ ICF INTL. ◦ SIGBT ◦ SENSEWARE ◦ CYPRESS ENVIRO.	Compliance Tech & Strategies ◦ CHIA NAN UNIVERSITY ◦ KAOHSIUNG UNIV. ◦ SUNGKYUNKWAN ◦ SILICON POWER
Friday February 10					
7 7:30AM to 9:30AM	Air Programs & Permitting ◦ EEI ◦ RAMBOLL ENVIRON ◦ WILLIAM SMALLING ◦ ERM ◦ NTH CONSULTANTS ◦ BURNS & MCDONNELL	Air Quality Monitoring ◦ PRAXAIR ◦ NIST ◦ PERMA PURE ◦ CAI, INC. ◦ WUNDERLICH-MALEC ◦ GASMET TECHNOLOGIES		CHP ◦ SEGA ◦ STERLING ENERGY ◦ ACEEE ◦ SIEMENS ENERGY ◦ ARGON NATIONAL LABORATORY	
8 10:00AM to 12:00PM	Water & Land Compliance ◦ LEIDOS ◦ SARGENT & LUNDY ◦ WZI. INC. ◦ EMPSI ◦ GHD	AQ & Fenceline Monitoring ◦ NETRONIX, INC. ◦ TSI, INC. ◦ CEA-LETI/APIX ◦ ALS ENVIRONMENTAL ◦ EMISSIONS ANALYTICS		Natural Gas & Grid Technology ◦ THERESA PUGH CONSULT ◦ RBAC, INC. ◦ LOUIS BERGER ◦ ATENEO DE DAVAO UNIV. ◦ SW RESEARCH INST. ◦ IBM	

EUEC Program At - A - Glance

Track	F	G	H	I	J
Room #	Room 5B	Room 7B	Room 8	Room 9	Room 10
Sessions	RENEWABLE ENERGY	O&M, DDD, EHS	GHG, ELG, CCR & CCS	WATER 316(B)	BATTERY & STORAGE
Wednesday February 8					
1 1:00PM to 3:00PM	Biogas, Biomass, Biodiesel • BLACK & VEATCH • BIODICO • BIOGAS WORLD • PACIFIC BIODIESEL	Decommissioning of Power Plants • SEGA • AECOM • TRC • WESTON SOLUTIONS • BURNS & MCDONNELL • CB&I	CCR & ELG Compliance • HDR • BLACK & VEATCH • AMEC FOSTER • WORLEY PARSONS • WHEELER • TENCATE • BURNS & MCDONNELL	Wastewater Mgmt. • ALLIANT ENERGY • ONTARIO CLEAN WATER AGENCY • OVIVO USA • VACOM • BURNS & MCDONNELL • ENVIRONMENTAL STNDS.	Charging & Transportation • ICF • RPS • SIERRA CLUB • CHARGEPOINT • MUHU
2 3:30PM to 5:30PM	Waste to Energy • YORKE ENGINEERING • GUILD ASSOCIATES • ALTER NRG • HDR • SIERRA ENERGY • BLUME DISTILLATION	Compliance Strategies & Decommissioning • WESTON SOLUTIONS • STANLEY CONSULT. • ROCKY MOUNTAIN • WILDLIFE HABITAT • EPSILON ASSOCIATES • HALEY & ALDRICH	GHG & Green Programs • GW UNIVERSITY • DILO COMPANY • FLORESTA • ECC • HOSEO UNIVERSITY • UPM • CDP	Water Remediation & 316(b) • MAKAI OCEAN ENG. • NAU • HUNTON & WILLIAMS • BLACKHAWK TECH. • BURNS & MCDONNELL • RED LION CHEM.	EV & PHEV • ENERGY AUTHORITY • EFFICIENT DRIVETRAINS • UNITED CHEMI-CON • EMOTORWERKS • JRP CHARGE CONS. • CLEARESLT
Thursday February 9					
3 7:30AM to 9:30AM	Waste Management, Solar & PV • SCOTT ENVIRONMENTAL • WAKEFOREST UNIV. • GHD SERVICES • ENERGY JUSTICE NETWORK • SAUDI ARAMCO	Power Plant & Boiler Optimization • OVIVO USA • GREAT RIVER ENERGY • MARSULEX • BLAK & VEATCH	CCR Rule • SARGENT & LUNDY • SIDLEY AUSTIN • ERM • HALEY & ALDRICH • TETRA TECH • GDS ASSOCIATES	316(b) • EA ENGINEERING • HYDROLOX • OVIVO USA • BURNS & MCDONNELL	Battery & Storage Systems • OPENADR ALLIANCE • BENCHMARK • MISO • YEUNGNAM UNIV.
4 10:00AM to 12:00PM	Renewable Projects & Development • ERM • NREL • L5 SOCIETY • SAGE PLANNING • LEIGHTY FOUNDATION • NAMASTE SOLAR	EHS & EMIS • SPHERA SOLUTIONS • THE ENGINE ROOM • XOVERTIME • BULWARK • TRINITY CONSULTANTS	CCR & ELG • SEFA GROUP • BURNS & MCDONNELL • NAES CORP. • MISSISSIPPI LIME • AECOM • BARR ENGINEERING	FGD Wastewater - ZLD • SOUTHERN CO. • CH2M • GE WATER • EES, INC. • OASYS WATER • AQUATECH	Battery & Storage • GEOSYNTEC • ADARA POWER • GIRTZ INDUSTRIES • LISIS, CO. • INTERTEK
5 1:00PM to 3:00PM	Solar, Wind & Nuclear • NUSCALE POWER • ENERGYSAGE • GEORGIA PUBLIC • SHEERWIND • SERVICE COMMISSION • SUNPOWER • ATENEO DE DAVAO	Risk Management, EMIS & Project Finance • U.S. DOE • XOVERTIME • ERM • ENVIANCE • RIZZO ASSOCIATES • HDR	Coal Ash, CCR & FGD • DUKE ENERGY • BLACK & VEATCH • BURNS & MCDONNELL • WESTON SOLUTIONS • GOLDER ASSOC. • HALEY & ALDRICH	FGD Wastewater - ELG • GE WATER • LIBERTY HYDRO • CAROLLO ENG. • CH2M • LECHLER • BURNS & MCDONNELL	Back-up Power & Energy Storage • MMR POWER SOLUTIONS • CSU FRESNO • CHROMALOX • SANBORN, HEAD & ASSO.
6 3:30PM to 5:30PM	Solar & PV • ILLINOIS STATE UNIV. • ONYX SOLAR • GO GLOBAL ENVIRON. • CEA TECH-LITEN • CLEAN ENERGY • SCHLETTER, INC. • COLLECTIVE	Operations & Optimization • U.S. WATER • THE ENGINE ROOM • SUS • ELECTROCELL • UNITSPRO • PROPELLER	FGD, ELG, CCR & CCS • BURNS & MCDONNELL • BARR ENGINEERING • UNITED CONVEYOR • BURNS & MCDONNELL • SARGENT & LUNDY • GEOENGINEERS, INC.	316(b), ELG, Wastewater • SOUTHERN COMPANY • P S ANALYTICAL • RPS COMPOSITES • SCHIFF HARDIN • AQUA METROLOGY • USF	Energy Storage Technology • ARGONNE NATIONAL LABORATORY • THE LEIGHTY FOUNDATION • GILDEMEISTER ENERGY STORAGE • VILLAGE CAPITAL
Friday February 10					
7 7:30AM to 9:30AM	Community & Solar Projects • UNITED ILLUMINATING • BOUFFARD GROUP • PAGURIDAE • CILBURN & ASSOC. • UNITED ILLUMINATING • TRC ENVIRONMENTAL	Health & Safety • BULWARK • CARDIO PARTNER • NYU • NYU • NAT'L SAFETY COUNCIL • COMPLIANCE SOLUTIONS	CCS: Carbon Capture & Storage • SOUTHERN CO. • MITSUBISHI HEAVY I.A. • GASMET • US ENERGY ASSOC. • SARGENT & LUNDY • EERC	Wastewater Selenium • BROOKS APPLIED • CRIEPI • SBC CAPTECH • CH2M • DOOSAN • HEADWORKS	
8 10:00AM to 12:00PM	Renewable Energy • GEO-ENERGY SERVICES • BAKER ELECTRIC • 3DEGREES • SOLAR • LEIGHTY FOUNDATION	Operations & Mgmt. • NORTH HIGHLAND • TRANTECH RADIATOR PRODUCTS • HDR	CCS II • FLORESTA SINGAPORE • CANMET ENERGY • EERC • CHENG KUNG UNIV.	Water Supply & Security • INDRA INST. • IEISC • EXERGY SYSTEMS • OHIO STATE UNIVERSITY	

Wednesday | February 8 | 1PM - 3 PM

A1. REGULATORY UPDATE - AIR

A1.1 ENERGY INDUSTRY REGULATIONS, 2017-2020

Co-Chair - John Kinsman, Sr. Director - Environment, Edison Electric Institute



A1.2 STILL LEGAL TO BURN FOSSIL FUEL TO MAKE ELECTRONICS?

Session Sponsor & Co-Chair - Jay Holloway, Partner, Sutherland, Asbill & Brennan LLP



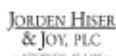
A1.3 UPDATE ON TRIALS & TRIBULATIONS OF THE GUIDELINE ON AIR QUALITY MODELS

Gale Hoffnagle, Sr. Vice President & Technical Director, TRC Environmental Corporation



A1.4 REGIONAL HAZE UPDATE: REASONABLE COST OR REASONABLE PROGRESS?

Eric Hiser, Partner, Jorden Hiser & Joy, PLC



A1.5 THE NEW ADMINISTRATION AND GHG REGULATION: WHAT SHOULD WE EXPECT?

Allison Wood, Partner, Hunton & Williams LLP



A1.6 HOW MARKETS & GOVERNMENT AGENCIES ARE REACTING TO THE CPP

Block Andrews, Strategic Environmental Solutions Director, Burns & McDonnell



Wednesday | February 8 | 3:30PM - 5:30PM

A2. ELECTION IMPACTS ON ENERGY

A2.1 ELECTIONS HAVE CONSEQUENCES: CAMPAIGN PROMISES CONFRONT TRADEOFFS

Session Sponsor & Co-Chair - Marc Chupka, Principal, The Brattle Group



A2.2 IMPACT OF THE ELECTION ON EPA'S VEHICLE GHG REGULATORY PROGRAM

Andrea Campbell, Partner, Van Ness Feldman LLP



A2.3 FATE OF OBAMA'S ENVIRONMENTAL RULES - CAN THE TRAIN WRECK BE EXTRICATED

Session Sponsor & Co-Chair - Andrew Byers, AVP Environmental Services, Black & Veatch



A2.4 THE ROLE OF POLITICS IN REGULATORY APPROVALS

Christopher Hopkins, Principal, River Landing Solutions LLC



A2.5 PERMITTING ON FEDERAL LANDS - CHANGES UNDER THE NEW ADMINISTRATION

John King, Principal, Environmental Management and Planning Solutions



A2.6 HOW VOLUNTARY MARKETS CAN DRIVE THE CLEAN ENERGY TRANSITION

Kristen Sheeran, Director of Regulatory Affairs, 3Degrees

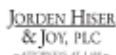


Thursday | February 9 | 7:30AM - 9:30AM

A3. NAAQS & SSM EXEMPTION

A3.1 DEVELOPING APPROVABLE LONG-TERM LIMITS UNDER EPA'S SO2 GUIDANCE

Co-Chair - Eric Hiser, Partner, Jorden Hiser & Joy, PLC



A3.2 2015 OZONE NAAQS AREA DESIGNATIONS - WHO'S AT RISK?

Co-Chair - Mike Knechtel, Air Permitting Section Leader, Black & Veatch



A3.3 HOW TO MODEL NAAQS COMPLIANCE WITH EPA'S REMOVAL OF SSM EXEMPTION

Mary Kaplan, Air Quality Meteorologist, AECOM; Robert Paine



A3.4 WHAT THE DEMISE OF THE "SSM EXEMPTION" MEANS FOR THE POWER SECTOR

Alexandra Bromer, Partner, Perkins Coie LLP



Thursday | February 9 | 10AM - 12PM

A4. NSR

A4.1 UNPRECEDENTED NSR CHALLENGES: MODELING CONUNDRUM FOR OZONE & PM2.5

Co-Chair - Robert Paine, Associate Vice President, AECOM; David Heinold



A4.2 NSR 2017 - THE CHALLENGE CONTINUES

Co-Chair - David Jordan, Partner, ERM



A4.3 THE UTILITY NEW SOURCE REVIEW ENFORCEMENT INITIATIVE

Makram Jaber, Partner, Hunton & Williams LLP



A4.4 SHIFT IN FOCUS? 2016 SETTLEMENTS AND NSR CD IMPLEMENTATION UPDATE

Liz Williamson, Partner, Sutherland, Asbill & Brennan LLP



A4.5 GHG PERMIT COMPLIANCE CASE STUDY FOR NATURAL GAS COMBINED CYCLE UNITS

Larry Moon, Principal, Zephyr Environmental Corporation



A4.6 CRASH COURSE IN PSD PERMITTING - KEY CONCEPTS, STRATEGIES AND PITFALLS

Piyush Srivastav, President, NAQS - Environmental Experts



Thursday | February 9 | 1PM - 3PM

A5. CLEAN AIR ACT ISSUES

A5.1 REGIONAL HAZE: ROUND 2 IS JUST AROUND THE CORNER

Session Sponsor & Co-Chair - Mack McGuffey, Partner, Troutman Sanders LLP



A5.2 MERCURY AND AIR TOXICS STANDARDS: REGULATORY AND LITIGATION UPDATE

Angela Levin, Partner, Troutman Sanders LLP



A5.3 IS FEDERALISM ALIVE UNDER THE CLEAN AIR ACT (REDUX)?

William Wehrum, Partner, Hunton & Williams LLP



A5.4 IMPLICATIONS OF RECENT NAAQS UPDATES FOR THE UTILITY SECTOR

Divya Agarwal, Managing Consultant, Trinity Consultants



A5.5 CITIZEN SCIENCE 2017

Shawn Dolan, President, Virtual Technology LLC



Thursday | February 9 | 3:30PM - 5:30PM

A6. 111(d): CPP COMPLIANCE

A6.1 STATE CLEAN POWER PLAN ACTIVITIES

Nicholas Martin, Environmental Policy Manager, Xcel Energy; Lauren Quillian



A6.2 CAPTURING ENERGY EFFICIENCY (EE) SAVINGS FOR THE CPP

Co-Chair - Robert Neumann, Associate Director, Navigant Consulting, Inc.



A6.3 ADMINISTRATIVE PATHWAYS FOR AMENDING EPA REGULATIONS

Megan Berge, Partner, Baker Botts LLP



A6.4 ECONOMIC EFFECT ON THE U.S. REFINING INDUSTRY OF EPA CLEAN AIR ACT

Bill Smalling, Attorney, The Law Office of C. William Smalling, PC



A6.5 CARBON CONVERSION FOR INCREASED EFFICIENCY AND CARBON REDUCTION

Co-Chair - Michael Garvin, Associate Director, Illinois Institute of Technology



A6.6 OLD SMOKEY POWER - THE REGULATORY CONUNDRUM CONTINUES!

Peter T. Belmonte, P.E., Vice President & Director, TRC Environmental Corporation



TRACK | A | REGULATORY UPDATE

ROOM 1

Friday | February 10 | 7:30AM - 9:30AM



A7. AIR PROGRAMS & PERMITTING

A7.1 OVERVIEW AND UPDATE OF INTERSTATE TRANSPORT ISSUES
Riaz Mohammed, Manager, EEI



A7.2 PM2.5 EMISSION FACTORS FOR NATURAL GAS-FIRED ENGINES
Session Sponsor & Co-Chair - Glenn England, Principal Consultant, Ramboll Environ;
Jasmine Urisk, CEPEI; Kevin Crosby, Montrose Air Quality Services



A7.3 A PROPOSAL FOR U.S. CLEAN AIR ACT REFORM FOR A GLOBAL WORLD
Bill Smalling, Attorney, The Law Office of C. William Smalling, PC



A7.4 CRITICAL ISSUES FOR NATURAL GAS POWER PLANT SITING AND LICENSING
Co-Chair - David Shotts, PE, Partner, ERM; Tom Wickstrom



A7.5 AIR PERMITTING CHALLENGES FOR DISTRIBUTED GENERATION
Rhiana C. Dornbos, PE, Project Engineer, NTH Consultants, Ltd.; Jeffrey P. Jaros



A7.6 FROM A THEORETICAL AIR PERMIT TO ACTUAL COMPLIANCE - LESSONS LEARNED
Mary Hauner-Davis, Manager, Burns & McDonnell; Laura Rose, Old Dominion Electric

Friday | February 10 | 10AM - 12PM

A8. WATER & LAND COMPLIANCE



A8.1 REGULATORY CHALLENGES ASSOCIATED W/ PERMITTING WASTE CONVERSION TECH
Co-Chair - George Namie, Sr. Air Quality Specialist, Leidos



A8.2 IMPLEMENTING NATIONWIDE PERMIT PROGRAM & OTHER PERMITTING STRATEGIES
Co-Chair - Valisa Nez, Environmental Regulatory Specialist, Sargent & Lundy, LLC



A8.3 ADVANCES IN GHG MITIGATION
Jesse Frederick, Vice President, WZ Inc.



A8.4 SITING, PERMITTING, & OPERATING FACILITIES IN SAGE GROUSE HABITAT
David Batts, Principal, EMPSi - Environmental Management & Planning Solutions, Inc.



A8.5 TIPS FOR SUCCESSFUL GHG DATA REPORT PREPARATION AND VERIFICATIONS
Subbarao Nagulapaty, Associate, GHD

TRACK | B | CEMS & AIR QUALITY

ROOM 2

Wednesday | February 8 | 1PM - 3PM

Randall
Environmental



B1. CEMS & AIR QUALITY

B1.1 PROJECT MANAGEMENT TIPS FOR SUCCESSFUL SOURCE TEST AND RATA
Co-Chair - Joanne Randall, President, Randall Environmental



B1.2 FLOW STUDY UTILIZING MULTIPLE STYLE MEASURING DEVICES
Bob Finken, Senior Vice President, Montrose Air Quality Services; Scott R. Miller



B1.3 NEW ADVANCEMENTS IN NOX ANALYZER ELECTRONICS FOR EASIER SERVICING
Co-Chair - Thomas McKarns, Principal, ECO PHYSICS; Matthias Kutter & Ahmad Nabiyyar



B1.4 CEMS CLOUD APPLICATIONS FOR DATA SECURITY AND ACCESS
Nathan Downs, Service Manager, DR DAS LTD; Andrew C. Montz



B1.5 OVERVIEW: CEMS SAMPLE HANDLING SYSTEMS FOR TRS & H2S ODOR MEASUREMENT
Jeremy Whorton, Applications and Solutions Engineer, Thermo Fisher Scientific

B1.6 INSITU MULTIGAS ANALYZER
Ravi Narayan, VP of Business Development, MIP Centrex, Inc.

Wednesday | February 8 | 3:30PM - 5:50PM



B2. CEMS & MATS

B2.1 MEASUREMENT VARIABILITY BETWEEN HG SORBENT TRAPS & PROCESS MONITORS
Co-Chair - Tony Bazzi, Lead Engineer, DTE Energy; Grant Hilbers



B2.2 EPA REFERENCE METHOD UPDATES AFFECTING MERCURY AND AIR TOXIC STANDARD
Co-Chair - Rick Krenzke, Project Director, TRC



B2.3 CONTINUOUS MONITORING DATA UNCERTAINTY AND REGULATORY COMPLIANCE
Joseph Macak, Vice President & Principal Consultant, Mostardi Platt



B2.4 REAL TIME SO3 MONITORING IN POWER PLANTS
Dan Kietzer, National Product Manager, SICK, Inc.



B2.5 MERCURY-CONTAINING THERMOSTATS: ANNUAL OUTFLOW MEASUREMENT
Lisa Skumatz, Principal, SERA - Skumatz Economic Research Associates, Inc.



B2.6 TDLS IN COMPACT OEM MODULE TO MEASURE HCL, NH3 OR H2O
Emmanuel Thierry, Sales Manager, Axetris; Rui Protasio



B2.7 LOW LEVEL TNMNEOC MEASUREMENTS
Sucha Parmar, Technical Director, Atmospheric Analysis & Consulting Inc.

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



B3. REGULATORY UPDATE

B3.1 MATS ELECTRONIC REPORTING REQUIREMENTS
Co-Chair - David Elam, Vice President - Project Director, TRC



B3.2 OPTIMIZE YOUR CEMS OR SCR FOR COST BENEFIT
Co-Chair - Kevin Crosby, VP, Technical, Montrose Air Quality Services, LLC



B3.3 GAS TURBINE REGULATORY REGULATIONS
Ben Sehgal, Training Section, California Air Resources Board



B3.4 A COMPARISON OF PS 15 AND PROCEDURE 1 AND PS 18 AND PROCEDURE 6
Steve Wright, Specialist - Industrial Process, MKS Instruments, Inc.



B3.5 PS 18 COMPLIANCE WITH CAVITY RING-DOWN SPECTROSCOPY
Jerry Riddle, President, Tiger Optics; Yu Chen



B3.6 NEW GUIDELINE ON AIR QUALITY MODELS AND THE ELECTRIC UTILITY INDUSTRY
Sergio Guerra, Senior Environmental Engineer, CPP, Inc.

Thursday | February 9 | 10AM - 12PM

B4. PM, CEMS, ESP

B4.1 PEMS HARMONIZATION OF PS-16 WITH PART75-SUBPART E

Richard Hovan, Sr. Combustion & Environmental Technical Consultant, Wunderlich-Malec

B4.2 EPA ALTERNATIVE METHOD 082 DIGITAL OPACITY

Allison Dolan, Visible Emission Consultant, Sustainable Skys

B4.3 USING PM CEMS FOR PLANT OPTIMIZATION

Co-Chair - John Brown, Sales Manager Americas, Altech PCME

B4.4 INNOVATIVE TRUE NO2 CONVERTER FOR RETROFITTING EXISTING NOX ANALYZERS

Co-Chair - Charles Odame-Ankrah, Product Development, Global Analyzer Systems Ltd.; Carlyn McGeean, Charles Grimm, Hayward Shaun, Brodie Biggar & Brian Rosentreter

Thursday | February 9 | 1PM - 3PM

B5. AIR QUALITY MODELING

B5.1 EPA MODELING GUIDANCE CHANGES: WHAT YOU NEED TO KNOW

Robert Paine, Associate VP, AECOM; Jeff Connors, Laura Warren & Mary Kaplan

B5.2 SO2 DESIGNATION MODELING CASE STUDY – W.A. PARISH GENERATING STATION

Richard Hamel, Senior Air Quality Meteorologist, ERM; Craig Eckberg, NRG Energy

B5.3 SO2 MONITOR SITING EXPERIENCE UNDER THE DATA REQUIREMENTS RULE

Co-Chair - George Schewe, Principal Meteorologist/Consultant, Trinity Consultants

B5.4 USING PHYSICAL MODELING TO REFINE DOWNWASH INPUTS TO AERMOD

Sergio Guerra, Senior Environmental Engineer, CPP, Inc.; Ron Petersen

B5.5 FORECASTING AND MODELING FOR REGULATORY CHANGES

Session Sponsor & Co-Chair - Mitchell Johnson, Sr. Market Analyst, EPIS; Steve Edburg

Thursday | February 9 | 3:30PM - 5:30PM

B6. AIR QUALITY MODELING II

B6.1 THE FUTURE OF AIR MODELING: APPENDIX W CHANGES AND THEIR SIGNIFICANCE

Richard Hamel, Senior Air Quality Meteorologist, ERM; Mark Garrison, Carlos Szembek, Thomas Wickstrom & Surya Ramaswamy

B6.2 TECHNICAL PROBLEMS WITH THE BUILDING DOWNWASH ALGORITHMS IN AERMOD

Co-Chair - Ron Petersen, Vice President, CPP, Inc.

B6.3 USE OF CAMX IN EVALUATING IMPACTS FOR THE REGIONAL HAZE RULE

Co-Chair - Christine Chambers, Principal Consultant, Trinity Consultants; J. Jewell & N. Sule

B6.4 SECONDARY PARTICULATE CONCENTRATION AND AMMONIA LEVELS

Tamer Alexan, North America Atmospheric Lead, Advision; Tina Liu

B6.5 AN INNOVATIVE NEW AIR DISINFECTION PROCESS FOR IAQ

Dilip Goswami, Co-Founder and CEO, Molekule; Dr. Yogi Goswami & Jaya Rao

Friday | February 10 | 7:30AM - 9:30AM

B7. AIR QUALITY MONITORING

B7.1 METHODOLOGY AND STABILITY OF EPA PROTOCOL GAS MIXTURES

Co-Chair - Mark Malczewski, Sr. RD Analytical Chemist, Praxair; A. Srivastava & A. Boll

B7.2 HCL RESEARCH GAS MIXTURES REQUIRED FOR SI-TRACEABLE EMISSIONS MEASUREMENTS

Co-Chair - Cassie Goodman, Research Chemist, NIST; Lacey Brent & Lyn Gameson

B7.3 ACCURATE IR MEASUREMENTS OF LOW LEVELS OF SO2 USING NAFION DRYERS

Craig Sunada, VP Product Development, Perma Pure; B. Ficara, M. Savelski & J. Stanzione, Rowan University; T. Smith, C. Sunada & M. Moon, Perma Pure LLC

B7.4 HOW LOW CAN WE GO

Matt Swanson, VP, Sales, CAI, Inc.

B7.5 ESTABLISHING A CORRECT CONTINUOUS PARAMETRIC MONITORING SYSTEM

Richard Hovan, Senior Environmental Consultant, Wunderlich-Malec; Joseph Miller

B7.6 MEASURING HCL USING HOT/WET EXTRACTIVE PORTABLE FTIR EMISSIONS MONITOR

Jim Cornish, Sales & Support Manager, Gasmet Technologies

Friday | February 10 | 10AM - 12PM

B8. AIR QUALITY & FENCELINE MONITORING

B8.1 AN IOT APPROACH TO AIR QUALITY MONITORING

Co-Chair - Vasileios Nasis, CEO, Netronix, Inc.

B8.2 CONSIDERATIONS FOR CERTIFYING PHOTOMETRIC PM 2.5 & PM 10 MONITORS

Co-Chair - Steve Boehm, Sr. Global Product Mgr., TSI Inc; Robert Anderson & Tim Johnson

B8.3 BREAKTHROUGH GENERATION FOR GC-BASED GAS ANALYSIS

Hughes Metras, VP Strategic Partnerships, Cea-Leti /Apix; Andreucci & Puget, Apix Analytics

B8.4 FENCELINE MONITORING AT REFINERIES – ARE WE NEXT?

Nicole Bryson, Account Manager, ALS Environmental Air Quality Laboratory

B8.5 THE IMPACT OF AUTOMOBILES ON AIR QUALITY

Aidan Revie, New Business Director, Emissions Analytics

Wednesday | February 8 | 1PM - 3PM

C1. HG MATS COMPLIANCE

C1.1 THE FIRST YEAR OF HG EMISSIONS RATE: CONTROL TECHNOLOGY EFFECTIVENESS
Co-Chair - J. Edward Cichanowicz, President, J.E. Cichanowicz Inc; Michael Hein, Hein Analytics, LLC; James Marchetti, James Marchetti, Inc.

C1.2 HG CONTROL ADDITIONS IN 2015 REFLECTIONS ON MATS COMPLIANCE STRATEGIES
Co-Chair - Scott Jell, Electricity Analyst, U.S. Energy Information Administration (EIA)

C1.3 CREATING "WHITE SPACE" FOR MERCURY COMPLIANCE UNDER MATS RULE
Co-Chair - Marcus Sylvester, VP Sales, ME2C; John Pavlish, Nicholas Lentz & James Trettel

C1.4 PAC INJECTION UPGRADES - DON'T LIVE WITH PROBLEM SYSTEMS
Co-Chair - Mike Gregory, Project Manager & Capital Sales, IAC

C1.5 REDUCING MERCURY CONTROL OPERATING COSTS AND RISKS
Co-Chair - Sharon Sjostrom, Chief Product Officer, ADA-ES, Inc.; Constance Senior

Wednesday | February 8 | 3:30PM - 5:30PM

C2. ACTIVATED CARBON

C2.1 OPTIMIZING & TURNDOWN OF MERCURY CONTROL REAGENTS UNDER MATS
Session Sponsor & Co-Chair - Joe Wong; Speaker - Sheila Glesmann, SVP, ADA-Carbon Solutions; Joe Wong, Robert Huston, Roger Cayton, Ariel Li & Chris Vizcaino

C2.2 LAB SCALE ENTRAINED FLOW ADSORPTION UNIT FOR SORBENT EVALUATIONS
Co-Chair - Jon Miller, Technology Manager - Mercury Control, Albemarle; Emma Zhou

C2.3 FACTORS ACCELERATING CORROSION IN ACI STORAGE/TRANSPORT SYSTEMS
Co-Chair - Matt Greenfield, Manager, Cabot Norit Activated Carbon; John Satterfield

C2.4 MERCURY CAPTURE IN WET SCRUBBER WHILE MINIMIZING PLANT BALANCE EFFECTS
Co-Chair - Erica Gonzaga, Applications Engineer, Carbonxt; Christine Valcarce, David Mazyck, Regina Rodriguez & Priscilla Kissinger

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

C3. HG CONTROL TECHNOLOGIES

C3.1 ADVANCED R&D CAPACITY ESSENTIAL TO EVOLVING DEMANDS FOR HG CONTROL
Co-Chair - Gerald Adler, Sr. Engineer, Cabot Norit Activated Carbon; John Satterfield

C3.2 AMENDED SILICATE TEST RESULTS FROM MULTIPLE POWER PLANTS & CONFIGURATIONS
Co-Chair - Thomas Gale, Director of Technology Development, Novinda Holdings, Inc.

C3.3 ACTIVATED FLY ASH FOR MERCURY CAPTURE AT COAL-FIRED POWER PLANTS
Co-Chair - Rodolfo Monterroso, COO, Pollution Control Tech.; Krutkramelis & Corcoran

C3.4 MODIFIED FLY ASH FOR MERCURY CONTROL IN COAL-FIRED POWER PLANT
Co-Chair - Yongsheng Zhang, Asso. Professor, NCEPU; Wang & Liu, NCEPU; Pan, WKU

Thursday | February 9 | 10AM - 12PM

C4. DSI & ACI

C4.1 DEMONSTRATION OF HIGH DSI COMPATIBILITY BY COMMERCIALY AVAILABLE ACI
Co-Chair - John Satterfield, Sr. Field Service Engineer, Cabot Norit Activated Carbon

C4.2 AN UPDATE ON INTERACTIONS BETWEEN DSI & ACI
Co-Chair - Conner Cox, Strategic Project Manager, United Conveyor Corp; Jon Norman

C4.3 SORB-TEC™ INJECTION TECHNOLOGY DELIVERS SAVINGS FOR DSI & ACI SYSTEMS
Co-Chair - Nick Evans, Regional Sales Manager, Nol-Tec Systems

C4.4 CHANGE IN SORBENT DISPERSION AT LOW LOAD, AND EXPERIMENTAL VALIDATION
Co-Chair - Scott Eisele, Lead Engineer, MPR Associates; Eric ten Siethoff, Jeff Russell & Jonas England

Thursday | February 9 | 1PM - 3PM

C5. HG CONTROL TECHNOLOGIES

C5.1 EXPERIENCE USING AMENDED SILICATES FOR MERCURY CONTROL
Co-Chair - Clifton Brown, Vice President, Novinda Holdings, Inc.; Brandon Kibler

C5.2 HALIDE-FREE MERCURY OXIDATION ADDITIVE FOR WFGD SCRUBBERS
Co-Chair - Nicholas R. Denny, Lead Chemist, Nalco Water, an Ecolab Company; Bruce A. Keiser & Wayne M. Carlson

C5.3 AMENDED SILICATES FOR MERCURY CONTROL - DIRECT AND INDIRECT BENEFITS
Co-Chair - Steve Baloga, P.E., VP Engineering and Environmental Services, Novinda Holdings, Inc.

C5.4 EMISSIONS OF HEAVY METALS FROM THE COMBUSTION OF COAL AND WASTE FUELS
Co-Chair - Sang-Sup Lee, Associate Professor, Chungbuk National University; Min Park

Thursday | February 9 | 3:30PM - 5:30PM

C6. YOUNG POWER PROFESSIONALS

C6.1 GROWING YOUR CAREER: ADVICE FOR THE YOUNG POWER PROFESSIONAL
Co-Chair - Priscilla Kissinger, Special Projects Manager, Carbonxt

C6.2 INTEGRATING YOUNG PROFESSIONALS & NEW EMPLOYEES: A UTILITY'S PERSPECTIVE
Co-Chair - Tom Durham, Manager of Environmental Field Services, DTE Energy

C6.3 YOUNG PROFESSIONAL PROGRAMS IN ACTION
Co-Chair - Conner Cox, Strategic Project Manager, United Conveyor Corporation

C6.4 A UTILITY SUCCESSFULLY ENSURES NEW HIRES & YOUNG PROFESSIONALS THRIVE
Co-Chair - Philip Imber, Manager Air Section, Environmental Affairs, LG&E

C6.5 MENTORSHIP & PROFESSIONAL GROWTH: HELPING EMPLOYEES STEADILY PROGRESS
Co-Chair - Todd Svoboda, Environmental Compliance, East Kentucky Power Cooperative

C6.6 LEVERAGING INDUSTRY RELATIONSHIPS TO INCREASE CUSTOMER SUCCESS
Co-Chair - Ann Arney, Utility Services, ICS Consulting; Michael Piper

TRACK | D | ENERGY POLICY & SECURITY

ROOM 4

Wednesday | February 8 | 1PM - 3PM

D1. ENERGY POLICY & SECURITY

D1.1 ELECTRIC ENERGY TRANSFORMATION RELIABILITY CONSIDERATIONS

Co-Chair - Michael Cashin, Env. Policy Advisor, Minnesota Power (ALLETE); Christian Winter

D1.2 RENEWABLE PORTFOLIO STANDARDS: COSTS, BENEFITS, AND IMPACTS

Trieu Mai, Senior Energy Analyst, NREL; Jenny Heeter, Lori Bird & Venkat Krishnan, NREL; Galen Barbose & Ryan Wiser, Lawrence Berkeley National Laboratory

D1.3 GOLDOCKS EFFECT – FINDING THE POWER PLANT SITE THAT IS JUST RIGHT

Joseph Sabato, Senior Scientist, Epsilon Associates; Stephen H. Slocomb

D1.4 NON-ENERGY BENEFITS: WINNING AT COST-EFFECTIVENESS DOMINOS:TRMS

Lisa Skumatz, Principal, SERA - Skumatz Economic Research Associates, Inc

D1.5 A HISTORY OF SITING GENERATION WITH EMPHASIS ON RECENT TRENDS

Co-Chair - Jack Halpern, Power Sector Leader- Environmental Services, Stantec

D1.6 NIMBYS GO (AFTER) GREEN: TRENDS IN COMMUNITY OPPOSITION TO RENEWABLES

Will DuBois, Partner, Venable LLP

Wednesday | February 8 | 3:30PM - 5:30PM

D2. INFRASTRUCTURE & PLANT CONVERSION

D2.1 TECHNOLOGIES AND TRENDS IN THE PROTECTION OF CRITICAL INFRASTRUCTURE

Ronald Hawkins, Director of Industry Relations, Security Industry Association

D2.2 BINATIONAL ENERGY SECTOR REVIEW

Co-Chair -Patrick Schaefer, Executive Director, The University of Texas at El Paso

D2.3 INITIATIVE TO SAVE AMERICA'S JOBS - COAL-FIRED ELECTRIC GENERATING FLEET

Co-Chair - Keith Moore, President, CastleLight Energy; Melbourne Giberson, Turbo Research

D2.4 TRANSITIONING COAL FIRED POWER TO GEOTHERMAL

Susan Petty, President, Hotrock Energy Research Organization; Alison Armstrong, Britt Ide

D2.5 BUILDING SUSTAINABLE INFRASTRUCTURE USING THE ENVISION® RATING SYSTEM

Marcella Thompson, Sustainability Director, HDR Inc.

Thursday | February 9 | 7:30AM - 9:50AM

D3. DEMAND & RATES

D3.1 NEW DEVELOPMENTS IN ENERGY DATA

Co-Chair - John Finnigan, Lead Counsel, Environmental Defense Fund

D3.2 ELECTRIC UTILITY RATE CHALLENGES OF GOING GREEN

Ted Kelly, Principal & Senior Project Manager, Burns & McDonnell

D3.3 CLIMATE CHANGE AND THE ROLE OF AMERICA'S ELECTRIC UTILITIES

Jeff Makhom, Senior Vice President, National Economic Research Associates, Inc (NERA)

D3.4 UTILITIES AT A CROSSROADS

Alex Wong, Sr. Structure and Pricing Analyst, The Energy Authority; Enes Hosgor, EEme

D3.5 UTILITY BUSINESS MODELS ARE NOT ONE-SIZE-FITS-ALL

Session Sponsor & Co-Chair - Scott Steiner, President, Forcite LLC

D3.6 EVALUATING DSM OPPORTUNITIES REAL TIME ENERGY END USE MEASUREMENT

Karen Sutherland, Research Analyst, Florida Solar Energy Cntr.; Danny Parker & Eric Martin

D3.7 CONNECTING TO THE UTILITY CUSTOMER OF 2017

Peter DiSalvo, CTO & Co-Founder, DataCapable, Inc.

TRACK | D | ENERGY POLICY & SECURITY

ROOM 4

Thursday | February 9 | 10AM - 12PM

D4. DISTRIBUTED GENERATION, T&D

D4.1 TRANSMISSION LINE SITING/CONSTRUCTION AND RISK MANAGEMENT

Doni (Donell) Murphy, Managing Partner, ERM

D4.2 ENVIRONMENTAL PERMITTING FOR DISTRIBUTED GENERATION

Session Sponsor & Co-Chair - Brian O'Neal, Manager - Air Permitting, Black & Veatch

D4.3 ELECTRIC POWER PLANT LOAD FOLLOWING – IMPACTS OF EMISSION REGULATIONS

Chris Wedig, Senior Technology Specialist, CB&I

D4.4 MANAGE VEGETATION ENCROACHMENT AND UTILITY ASSETS EFFICIENTLY

Session Sponsor & Co-Chair - Randy Rhoads, Manager - Utilities, Harris Corp.; Tony Palizzi

D4.5 THE CASE FOR ELIMINATING ANIMAL-CAUSED OUTAGES IN ELECTRIC SUBSTATIONS

Colin Hassett, Director, FTI Consulting; Ellen Smith

D4.6 OPTIMIZATION OF MULTI-EFFECT DISTILLATION WITH BRINE TREATMENT

Dr. Hisham Bamufleh, Faculty, King Abdulaziz University; Faissal Abdelhady, King Abdulaziz University; Hassan M. Baaqeel & Mahmoud M. El-Halwagi, Texas A&M University

Thursday | February 9 | 1PM - 3PM

D5. GHG POLICY & FORESTRY

D5.1 DISCLOSING GREENHOUSE GAS EMISSIONS TO CUSTOMERS

Justin Brant, Associate, The Cadmus Group

D5.2 IMPACT OF REGIONAL GREENHOUSE GAS INITIATIVE (RGGI) ON PUBLIC HEALTH

Michelle Manion, Senior Associate, Abt Associates

D5.3 LOW CARBON TECHNOLOGY FOR COAL CO-FIRING

Session Sponsor & Co-Chair - Paula Calabrese, SVP & CSO, Accordant Energy

D5.4 CONSERVATION IS CURRENCY WITH TREES + TECHNOLOGY

Co-Chair - Kristen Bousquet, Business Development Manager, Arbor Day Foundation

D5.5 ASSESSMENT OF GHG MITIGATION OPTIONS IN AN ELECTRICITY GENERATION MIX

Adeoye Moronkeji, Graduate RA, University of Alberta; Md Ahiduzzaman & Amit Kumar

D5.6 IMPACT OF OIL PRICES ON DEVELOPMENT OF ALTERNATIVE ENERGY MARKETS

Nedia Miller, Founder, MILLER, CTA

Thursday | February 9 | 3:30PM - 5:30PM

D6. BUILDING TECHNOLOGIES

D6.1 PERFORMANCE CONTRACTING AS A MEANS OF ACHIEVING RESILIENCY

Co-Chair - Pam Maines, Executive Director, Constellation

D6.2 AIR FILTRATION AS AN ENERGY CONSERVATION MEASURE

Ray Markey, Western Regional Manager, Dynamic Air Quality Solutions

D6.3 BACK TO THE FUTURE: CUTTING EDGE TECHNOLOGY, EE & HEALTHY HOMES

Mark Pignatelli, Manager, ICF International; Will D'Arrigo

D6.4 SUPER INSULATED GREEN BUILDING TECHNOLOGIES

Roderick Robinson, Director of Operations, SIGBT; Paul Curtis, T3 Energy Ltd (Aust.)

D6.5 THE POWER OF THE INTERNET OF THINGS: IOT FOR ENERGY EFFICIENCY

Julien Stamatakis, Ph.D.; CTO & Co-Founder, Senseware

D6.6 SMART PNEUMATICS - MAKING DUMB BUILDINGS SMART

Co-Chair - Harry Sim, CEO, Cypress Envirosystems

Friday | February 10 | 7:30AM - 9:30AM

D7. CHP

D7.1 CHP MINOR SOURCE PERMITTING – THE FUTURE IS SMALL

Co-Chair - Brian Petermann, Manager - Air Quality Compliance, Sega Inc.

D7.2 BENEFIT OF UTILITY OWNERSHIP OF CHP AS A BASE LOAD RESOURCE

Co-Chair - Ken Duvall, Managing Partner, Sterling Energy; Uwe Schmiemann & Dang Le

D7.3 ENVIRONMENTAL BENEFITS OF UTILITY-OWNED COMBINED HEAT AND POWER

Meegan Kelly, Sr. Research Analyst, ACEEE; A. Chittum, ACEEE; L. Hoiris, Sterling Energy

D7.4 COMBINED HEAT & POWER PLANTS OFFERING RELIABLE SOLUTIONS-CASE STUDIES

Dalia El Tawy, Sr. Marketing Manager, Siemens Energy

D7.5 COMBINED HEAT & POWER PLANT AT ARGONNE NATIONAL LABORATORY

Dejan Ristic, Pressure/Energy Systems, Group Leader, Argonne National Laboratory

Friday | February 10 | 10AM - 12PM

D8. NATURAL GAS & GRID TECHNOLOGY

D8.1 KNOW EVERYTHING ABOUT CONVERTING TO NATURAL GAS? SURE ABOUT THAT?

Theresa Pugh, Owner/President, Theresa Pugh Consulting, LLC; Katie Elder, Aspen Enviro.

D8.2 ADVANCES IN INTEGRATED GAS-POWER MARKET MODELING

Co-Chair - Robert Brooks, Founder and President, RBAC, Inc.; Rahul Dhal, EPIS, Inc.

D8.3 INTEGRATED ENERGY RESILIENCE FOR COMMUNITIES AND FACILITIES

Co-Chair - Niek Veraart, VP, Louis Berger; N. Ninemire, SEGA

D8.4 OPTIMAL DESIGN OF A GRID-INTERACTIVE SOLAR-PHOTOVOLTAIC ENERGY SYSTEM

Randell Espina, Faculty, Ateneo de Davao University

D8.5 DETECTION OF GAS BUILDUP IN UNDERGROUND POWER CONDUCTORS

Jake Casey-Snyder, Engineer, Southwest Research Institute; Sean Mitchem

D8.6 PREVENTIVE LEAK DETECTION FOR HIGH PRESSURE GAS TRANSMISSION NETWORK

Rui Zhang, Research Staff, IBM, T.J. Watson Research Center; Kumar & Huang

Wednesday | February 8 | 1PM - 3PM

E1. CONTROL TECHNOLOGIES

E1.1 REACT® SYSTEM CHEMISTRY: MULTI-POLLUTANT CONTROL OF SO_x, NO_x, HG & PM

Co-Chair - Erica Gonzaga, Applications Engineer, Carbonxt; Valcarce, Mazyck & Rodriguez

E1.2 ALTERNATIVE APPROACHES SO₂ REDUCTION IN WET AND UN-SCRUBBED SYSTEMS

Jeff Kolde, Product Specialist, W.L. Gore; J. Knotts, M. McClusky & M. de Garbolewski

E1.3 ADVANTAGES & APPLICATION OF AMMONIA-BASED DESULFURIZATION TECHNOLOGY

Don Hamilton, Global VP of Sales & Marketing, Jiangnan Environmental; Carlos Siso

E1.4 WFGD PROCESS OPERATIONS - IMPACTS ON WASTEWATER TREATMENT

Co-Chair - Steven Feeney, Founding Principal, Steve Feeney Consulting

E1.5 HOW TO ACHIEVE IMPROVED POLLUTION CONTROL THROUGH RETROFITTING

Chad Clark, Technical Director, Gulf Coast Environmental Systems

Wednesday | February 8 | 3:30PM - 5:30PM

E2. NO_x CONTROL

E2.1 IMPACT OF SNCR AMMONIA SLIP ON YOUR PLANT'S WATER BALANCE

Co-Chair - Danielle Flagg, Project Associate, Sargent & Lundy; Mike Rosen

E2.2 SNCR EXPERIENCE ON LARGE COAL FIRED BOILERS WITH DIFFICULT OPERATING CONDITIONS

Kelly Borgen, Engineer, Westar Energy; Pfaff & Dougherty, Fuel Tech; Greene, Westar

E2.3 NEW ULTRA-LOW NO_x BURNER CAN SAVE MILLIONS ON O&M AND CAPITAL COSTS

Joe Brown, AMS Product Manager, Mitsubishi Hitachi Power Systems America

E2.4 REDUCING MEASUREMENT COMPLEXITY AND COSTS IN NO_x ABATEMENT SYSTEMS?

Co-Chair - Charles Odame-Ankrah, Senior PD Specialist, Global Analyzer Systems Ltd.; Carlyn McGeean, Charles Grimm, Hayward Shaun, Brodie Biggar & Brian Rosentrefer

E2.5 HIGH NO_x REMOVAL, 400F TO 750F

Kayla Olson, Process Engineer, Tri-Mer Corporation

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

E3. DSI & SORBENTS

E3.1 DSI AND ACI SYSTEM RETROFITS FOR IMPROVED RELIABILITY AND PERFORMANCE

Jon Norman, Manager - Sales and Technology, United Conveyor Corporation

E3.2 EXPERIENCE WITH SODIUM SORBENT INJECTION FOR SO₂ CONTROL

Session Sponsor & Co-Chair - Michael Atwell, Mgr., Solvay Chemicals; Wood, Riccio & Cretiu

E3.3 INTEGRATING ADAIR-MIXER™ TECH TO OPTIMIZE SORBENT INJECTION SYSTEM

Connie Senior, VP Technology, ADA-ES; Mark Pavol & Dave Dorste, Blender Products

E3.4 DRY SORBENT INJECTION FOR SO₂ MITIGATION WITH SORBACAL® SPS

Session Sponsor & Co-Chair - Martin Dillon, Flue Gas Treatment Specialist, Lhoist North America, Gerald Hunt & Melissa Sewell

E3.5 ICAC REVIEW OF DRY SORBENT INJECTION FOR ACID GAS CONTROL

Michael D. Schantz, Co-Chair Domestic Conventional Pollutants Division, ICAC

E3.6 HCLEAR™ TECHNOLOGY: A SOLUTION-BASED APPROACH TO HCL ABATEMENT

Ian Saratovsky, Sr. Technology Development Manager, Fuel Tech, Inc.; Chris Smyrniotis

Thursday | February 9 | 10AM - 12PM

E4. SCR & NOX CONTROL

E4.1 REDUCED LOAD SCR OPERATION

Richard Himes, Technical Executive, EPRI

E4.2 NEW TRENDS IN REAL-TIME COMBUSTION OPTIMIZATION

Co-Chair - Bill Poe, Sr. Principal Technical Consultant, Schneider Electric Software

E4.3 GAS TURBINES & INDUSTRIAL SCR SYSTEMS

Co-Chair - Robert McGinty, Sr. Product Manager, Mitsubishi Hitachi Power Systems

E4.4 COMBUSTION OPTIMIZATION SYSTEM FOR BATTLE RIVER GENERATING STATION

Enrique Bosch, Managing Director, INERCO ETECH USA; Francisco Rodríguez & Enrique Tova, INERCO; Brent Stenson & Vincent Cheng, ATCO POWER

E4.5 BENEFITS OF CONTROLLING AMMONIA (NH₃) SLIP IN COMBUSTION PROCESSES

Barbara Marshik, Power Market Segment Manager, Servomex; Rhys Jenkins

E4.6 CHEMILUMINESCENCE NO_x & NH₃ MEASUREMENTS, CHALLENGES & ADVANTAGES

Ahmad Nabiyyar, Technical Sales Specialist, ECO PHYSICS INC.; Tom McKarns

Thursday | February 9 | 1PM - 3PM

E5. REMEDIATION & CEMENT

E5.1 COAL TAR REMEDIATION USING ELECTRICAL RESISTANCE HEATING

Co-Chair - David Fleming, VP, TRS Group; Chad Crownover, Daniel Oberle & John Lille

E5.2 RE-THINKING RESPONSES TO SEDIMENT SITE CLEANUP DEMANDS

Russell Selman, Partner, Schiff Hardin LLP; Michael Showalter

E5.3 CEMENT STABILIZATION OF CONTAMINATED SOIL

Co-Chair - Paul Ruehl, Solidification/Stabilization Specialist, LafargeHolcim Cement Co.

E5.4 UTILIZATION OF CO₂ IN CONCRETE

Charles Welker, CEO, CellTech LLC; Doug Sprague

Thursday | February 9 | 3:30PM - 5:30PM

E6. COMPLIANCE TECHNOLOGIES & STRATEGIES

E6.1 SEPARATION AND QUANTIFICATION OF APIGENIN FROM SCUTELLARIA BARBATA D.

Co-Chair - Ming-Chi Wei, Professor, Chia Nan University of Pharmacy and Science; Yu-Chiao Yan & Show-Jen Hong, Kaohsiung Medical University; Pei-Hui Lin, Ohio State University; Jin-Ming Chen & Yu-Tuan Chou, Chia Nan University

E6.2 PRODUCTION OF EUGENYL ACETATE-ENRICHED OIL FROM CLOVE USING ULTRASOUND

Co-Chair - Yu-Chiao Yang, Associate Professor, Kaohsiung Medical University; Ming-Chi Wei, Chia Nan University; Pei-Hui Lin, Ohio State University; Show-Jen Hong, Kaohsiung Medical University

E6.3 COMBUSTION PROPERTIES OF COUNTERFLOW NONPREMIXED CH₄-NH₃/AIR FLAMES

Oh Chae Kwon, Professor, Sungkyunkwan University; J. W. Ku, H. K. Kim, & S. Choi, Sungkyunkwan University; S. Lee, Chonbuk National University

E6.4 SOLIDTRON® DPC FOR EFFICIENT NO_x REDUCTION USING PULSED ELECTRON BEAM

Howard Sanders, Manager, Silicon Power; H. Mehta, S. Glidden & D. Syracuse

Wednesday | February 8 | 1PM - 3PM

F1. BIOGAS, BIOMASS, BIODIESEL

F1.1 EVALUATION OF RENEWABLE NATURAL GAS PRODUCTION FROM BIOMASS

Session Sponsor & Co-Chair - Jonathan Cristiani, Engineer, Black & Veatch; Fry, Easterly, Olson & Kerschen

F1.2 ACCELERATING THE BIOGAS INDUSTRY THROUGH COMMUNICATION TECHNOLOGIES

Maxime Lemonde, CEO, BiogasWorld

F1.3 UTILITY SCALE BIODIESEL POWER GENERATION

Robert King, President, Pacific Biodiesel Technologies, LLC; Cecily Barnes

F1.4 ZERO NET ENERGY FARMS

Co-Chair - Russell Teall, President, Biodico

F1.5 COGENERATION SOLUTIONS USING BIOMASS FUELS - CASE STUDIES

Dalia El Tawy, Sr. Marketing Manager, Siemens Energy

Wednesday | February 8 | 3:30PM - 5:30PM

F2. WASTE TO ENERGY

F2.1 AIR PERMITTING & EQUIPMENT ISSUES FOR ADVANCED BIOGAS SYSTEMS

Co-Chair - Sara Head, Principal Scientist, Yorke Engineering, LLC

F2.2 THE NEXT GENERATION OF WASTE TO ENERGY SOLUTION

Co-Chair - Richard Fish, President, Alter NRG Corp.

F2.3 FASTOX GASIFICATION: COST-EFFECTIVE NET CARBON NEGATIVE FUEL FROM WASTE

Mike G. Hart, Chief Executive Officer, Sierra Energy; P. Vergnani, M. Roberts & L. Razzano

F2.4 SINGLE-STEP BIO/NATURAL GAS UPGRADE FOR SILOXANES, H₂S, HEAVIES & CO₂

Kevin Weatherford, Process Engineer, Guild Associates; Dave Church & Paul Baker

F2.5 CREATING RENEWABLE ENERGY FROM WASTE: A GLOBAL PERSPECTIVE

Bruce Howie, Practice Lead for Energy from Waste Services, HDR

F2.6 WASTE TO PROFITS: OPTIMIZING RESOURCES FOR ALTERNATIVE ENERGY

David Blume, Founder/CEO, Blume Distillation, LLC

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

F3. WASTE MANAGEMENT

F3.1 MANAGING SOLID DRILLING WASTE THROUGH ENGINEERED SOLUTIONS

Blake Scott, President, Scott Environmental Services, Inc.

F3.2 5 MOST COMMON HAZARDOUS WASTE VIOLATIONS & BEST PRACTICES TO PREVENT THEM

Co-Chair - Sean Grady, Vice President/Principal, GHD Services Inc.

F3.3 SAUDI ARAMCO WASTE MANAGEMENT

Co-Chair - Ensan El-Ayoubi, Facilities Planning Consultant, Saudi Aramco

F3.4 (110) FACET OF RUTILE GEO 2 ENERGETICS: A DISPERSION-CORRECTED DFT

Ali Abbaspourtamijani, Graduate Teaching Assistant, Wake Forest University

F3.5 THE ZERO WASTE HIERARCHY

Mike Ewall, Esq., Founder & Director, Energy Justice Network

Thursday | February 9 | 10AM - 12PM

F4. RENEWABLE PROJECTS & DEVELOPMENT

F4.1 LESSONS LEARNED OVER THE RENEWABLE ENERGY LIFECYCLE - AND BEYOND

Co-Chair - Chris Rutledge, Partner, ERM; Sean Casto



L5 Society

F4.2 POWER SATELLITES AS AN ECONOMIC SOLUTION TO CARBON AND ENERGY

Keith Henson, Founder, L5 Society



F4.3 FUTURE "ENERGY" UTILITY: THE INT'L HYDROGEN TRANSMISSION DEMO PIPELINE

Bill Leighty, Director, The Leighty Foundation



F4.4 ELECTRICITY GENERATOR COST & PERFORMANCE: PROJECTIONS & IMPLICATIONS

Wesley Cole, Engineer, NREL; Parthiv Kurup, Maureen Hand, Trieu Mai & Gian Porro



F4.5 INTEGRATING RENEWABLES: GLOBAL LESSON'S LEARNED

Sean McCarry, Managing Partner, Sage Planning Group, Ltd.; Elad Rosenberg



F4.6 RISKS & REWARDS: SOLAR PV DEVELOPMENT ON LANDFILLS & BROWNFIELDS

Session Sponsor & Co-Chair - Cynthia Christensen, Commercial/Utility Scale Director, Namaste Solar

Thursday | February 9 | 1PM - 3PM

F5. SOLAR, WIND & NUCLEAR

F5.1 NUCLEAR AND RENEWABLES – COMPETITORS OR PARTNERS

Co-Chair - Mike McGough, Chief Commercial Officer, NuScale Power



F5.2 GEORGIA'S APPROACH TO SOLAR AND NUCLEAR

Co-Chair - Tim Echols, PSC Commissioner, Georgia Public Service Commission



F5.3 SOLAR-PV CHARGING FACILITY: A NEW TOOL FOR DISASTER RELIEF OPERATION

Randell Espina, Faculty, Ateneo de Davao University; Nelson Enano



F5.4 SOLARWISE RHODE ISLAND: EXPLORING UTILITY-SPONSORED SOLAR PROGRAMS

Tess O'Brien, VP Strategic Partnerships, EergySage



F5.5 TRIPLE WIND POWER GENERATION SYSTEM FOR ULTRALOW WIND SPEED REGIONS

Dr. Daryoush Allaei, CTO, SheerWind; Carla Scholz & Shawn McClay



F5.6 GROWING SOLAR THROUGH UTILITY-SOLAR PROVIDER PARTNERSHIPS

Robbie Horwitz, Senior Manager - Utility Project Development, SunPower

Thursday | February 9 | 3:30PM - 5:30PM

F6. SOLAR & PV

F6.1 SOLAR PV FINANCIAL FEASIBILITY FOR HIGHER EDUCATION INSTITUTIONS

Jin Ho Jo, Associate Professor, Illinois State University



F6.2 MEETING RE PROCUREMENT & ENVIRONMENTAL TARGETS VIA COMMUNITY SOLAR

Eric Steinhof, VP of Business Development, Clean Energy Collective; Tim Braun



F6.3 SILICON HETEROJUNCTION SOLAR CELLS (SHJ), READY FOR INDUSTRIALIZATION

Remy Botalla-Gambetta, CEA Rep, Cea Tech-Liten; P.J. Ribeyron, M. Davenet & L. Clavelier



F6.4 DELIVERING SOLAR ENERGY GENERATION THROUGH THE BUILDING SKIN

Diego Cuevas, VP Business Development, Onyx Solar Group



F6.5 BUILDING CODE COMPLIANCE AND RISK MANAGEMENT IN PV MOUNTING SYSTEM

Co-Chair - Wolfgang Fritz, Vice President of Engineering, Schletter Inc.



F6.6 UTILITIES ARE WAGING WAR ON ROOFTOP SOLAR

Co-Chair - Greg Odegard, Principal, GO Global Environmental

Friday | February 10 | 7:30AM - 9:30AM

F7. COMMUNITY & SOLAR PROJECTS

F7.1 HOW UTILITIES ARE REDUCING CARBON EMISSIONS VIA UPSTREAM PROGRAMS

Co-Chair - Jennifer Parsons, Residential Program Administrator, The United Illuminating Company, Southern Connecticut Gas & Connecticut Natural Gas



F7.2 HOW (HOUSES OF WORSHIP) GREEN IS CONNECTICUT

Amy Thompson, President, Paguridae; Linda Darveau, EPA; S. Borrelli, United Illuminating



F7.3 TRANSFORMING TOWNS AND CITIES INTO SUSTAINABLE-ENERGY COMMUNITIES

Sheri Borrelli, Business Development, The United Illuminating Co.; Diana McCarthy-Bercury, Eversource; Linda Darveau, EPA



F7.4 FOUR WAYS TO MAKE COMMUNITY SOLAR WORK FOR YOUR UTILITY

Jill Cliburn, Principal, Cliburn and Associates, LLC



F7.5 BRIGHT IDEA: SOLAR ON BROWNFIELDS

Co-Chair - Doug Kilmer, Client Service Mgr., TRC Environmental; Tim Gehring & Beth Baxter

Friday | February 10 | 10AM - 12PM

F8. RENEWABLE ENERGY

F8.1 HOW CAN GEOEXCHANGE PROVIDE REAL RESULTS FOR TODAY'S UTILITY MARKETS

Co-Chair - Trey Austin, President/CEO, Geo-Energy Services, LLC



F8.2 TRENDS IN VOLUNTARY RENEWABLE ENERGY PRODUCTS

Amanda Mortlock, Vice President, Utility Partnerships, 3Degrees



F8.3 BIGGER RENEWABLE MARKET THAN ELECTRICITY GRID: HYDROGEN TRANSPORT FUEL

Co-Chair - Bill Leighty, Director, The Leighty Foundation



F8.4 RESIDENTIAL ENERGY CHOICE & THE RENEWABLE ENERGY CUSTOMER EXPERIENCE

Andrew Hammen, Director of O&M and Asset Management, Baker Electric Solar

POSTER



DISTILLATION AND PURIFICATION STEP, ANHYDROUS ETHANOL FROM SWEET SORGHUM

Elham Ebrahimiaqda, Phd Student, University of Arizona; Dr.Kimberly Ogden



DESIGN AND CONTROL OF AN INTERLEAVED POWER CONVERTER

Woonki Na, Assistant Professor, Cal St Univ-Fresno

Wednesday | February 8 | 1PM - 3PM

G1. DECOMMISSIONING OF POWER PLANTS

G1.1 POWER PLANT DECOMMISSIONING - A PRACTICAL LOOK AT PROJECT EXECUTION
Jeffrey Fleenor, Project Manager, Sega

G1.2 WHY ARE YOU BUYING THE COAL PLANT?
Mark Hall, Vice President Power Development, TRC

G1.3 WHEN POWER PLANT DECOMMISSIONING IS NOT DEMOLITION
Jeff Pope, Decommissioning & Demolition Manager, Burns & McDonnell Engineering Co.

G1.4 USING ASSET RECOVERY TO OFFSET COSTS AND REDUCE LIABILITIES
Co-Chair - Mike Mitchum, Global Facility Closure/Asset Recovery, AECOM

G1.5 MANAGING NON-LIQUID PCBs IN DECOMMISSIONING POWER PLANTS
John Woodyard, Senior Project Manager, Weston Solutions, Inc; Steve Mitchell

G1.6 OPTIMIZED VALUE DECOMMISSIONING IS POSSIBLE
Co-Chair - Richard Cheatham, Project Manager, CB&I; Andrew Schaaf & Kenneth Beard

Wednesday | February 8 | 3:30PM - 5:30PM

G2. COMPLIANCE STRATEGIES & DECOMMISSIONING

G2.1 MANAGING INVESTMENT RISKS IN POWER PLANT DECOMMISSIONING
Co-Chair - James Groesbeck, P.G., Sr. Project Manager, Weston Solutions; Steve Mitchell

G2.2 COULD YOUR SCRAP BE WORTH TWICE WHAT YOU ARE GETTING?
Greg Menen, Director Demolition Scrap Management, Rocky Mountain Recycling

G2.3 THE ENVIRONMENTAL IMPACT OF DECOMMISSIONING IN ISO-NE
Stephen Slocumb, Principal, Epsilon Associates

G2.4 ECOSYSTEM SERVICES VALUATION FOR SURPLUS PROPERTIES
Rick Black, Principal Environmental Planner/Ecologist, Stanley Consultants; David Yozzo

G2.5 BEYOND GOOD PR - CONSERVATION, A TOOL FOR ADVANCING SUSTAINABILITY
Co-Chair - Josiane Bonneau, Senior Director, Wildlife Habitat Council; Margaret O'Gorman, Wildlife Habitat Council; Kimberly Long & Bill Brady, Exelon Corporation

G2.6 DECOMMISSIONING/CLOSURE OF MIDWEST COAL-FIRED POWER PLANT IMPOUNDMENTS
Neal Kochis, PM, Haley & Aldrich; Steven F. Putrich

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

G3. POWER PLANT & BOILER OPTIMIZATION

G3.1 IMPROVING PLANT HEAT RATE USING AUTOMATIC CONDENSER TUBE CLEANING SYS
Co-Chair - Guy Beauchesne, Global Marketing Manager, Ovivo USA

G3.2 CCS REHEAT SYSTEM- FLUE GAS HEAT RECOVERY
Co-Chair - Mike Mengel, Lead Process Engineer, Marsulex Environmental Technologies(MET); Mark Ness, Great River Energy (GRE); Rodney Hendricksen, MET

G3.3 OPTIMIZING POWER PLANT PERFORMANCE THROUGH COAL BENEFICIATION
Mark Ness, Principal Engineer, Great River Energy; Nenad Sarunac, UNC Charlotte; Una Nowling, Black & Veatch Corp.; Sandra Broekema, Great River Energy

G3.4 ENGINEERING SOLUTIONS TO ENVIRO. NOISE PROBLEMS ON POWER PROJECTS
Jeff Szymanski, Acoustical Consulting Services Manager, Black & Veatch

Thursday | February 9 | 10AM - 12PM

G4. EHS & EMIS

G4.1 REDUCING ENVIRO. COMPLIANCE RISK: LESSONS LEARNED & GOALS ACHIEVED
Co-Chair - Carrie Young, Managing Director, Sphera Solutions; Jeffrey West, Xcel Energy

G4.2 SO2 & NOX ALLOWANCE POSITION & PORTFOLIO MGMT AT A LARGE UTILITY
Co-Chair - David Gloski, CEO, xOverTime

G4.3 ISO 14001:2015 ENVIRONMENTAL MANAGEMENT SYSTEMS FOR UTILITIES
Emily McKeon, Senior Consultant, Trinity Consultants

G4.4 MOVING BEYOND THE SAFETY PERFORMANCE PLATEAU
Duncan Kerr, Management Consultant, The Engine Room; Milan Trpin

G4.5 SELECTION, USE, CARE AND MAINTENANCE OF ARC RATED CLOTHING
Derek Sang, Technical Training Manager, Bulwark Protective Apparel

Thursday | February 9 | 1PM - 3PM

G5. PROJECT FINANCE, RISK MGMT & EMIS

G5.1 INVESTING IN AMERICAN ENERGY: DOE'S LOAN PROGRAMS OFFICE
Co-Chair - Kerri Neary, Project Manager, U.S. DOE; Sydney Schneir & Michael Reed

G5.2 USE OF LIABILITY TRANSFER PROCESS FOR RETIRED STATION REPURPOSING
Alex Cates, Partner, ERM

G5.3 ADDRESSING THE EFFECTS OF INDUCED SEISMICITY ON PLANT OPERATIONS
Session Sponsor & Co-Chair - Eddie Guerra, Director of Structural Engineering, RIZZO Associates; Richard Quittmeyer & Michael Rosenmeier

G5.4 LARGE UTILITY AIR DATA MANAGEMENT USING EXCEL & XOVERTIME
David Gloski, CEO, xOverTime; Tyler Gloski

G5.5 NETDMR-READY NPDES SOLUTIONS
Kate Candillo, Services Operations Manager, Enviance; Aaron Rapp & Jamie Blevens

G5.6 WILDFIRE RISK ASSESSMENT OF TRANSMISSION SYSTEMS
Ben McKinsey, Transmission Project Manager, HDR

Thursday | February 9 | 3:30PM - 5:30PM

G6. OPERATIONS & OPTIMIZATION

G6.1 THE INTERNET OF THINGS AND ITS IMPACT ON THE WATER TREATMENT INDUSTRY
Michael Henk, Director of Automation & Service, U.S. Water

G6.2 THE SYNERGY OF ENERGY EFFICIENCY AND WATER CONSERVATION
Co-Chair - Ken Roberts, Vice President - Sales, Smart Utility Systems; Kevin Hwang

G6.3 WHY IS EARNED VALUE BASED PROJECT MANAGEMENT DIFFICULT TO IMPLEMENT?
Robert Prowant, Partner, UnitsPro; Brett Houghton

G6.4 THE UTILITY DIRECTOR LEVEL LEADERSHIP CHALLENGE
Duncan Kerr, Management Consultant, The Engine Room; Milan Trpin

G6.5 UNDERSTANDING ELECTROSTATIC WATER TREATMENT, USING SIDE STREAM PRECIPITATION
George Wagner II, CEO, ElectroCell Systems; Dan Wheatly & Paul Q. McLain

G6.6 A RISK-BASED APPROACH TO PRIORITIZING UTILITY SYSTEM INVESTMENTS
Session Sponsor & Co-Chair - Aaron Fishman, Consultant, Propeller

G7. HEALTH & SAFETY

G7.1 CHANGES IN 1910.269 AND THE SELECTION OF ARC RATED CLOTHING

Session Sponsor & Co-Chair - Derek Sang, Technical Training Manager, Bulwark



G7.2 ENVIRONMENTAL HEALTH AFFECTING HUMAN HEALTH: CAREGIVER'S PROSPECTIVE

Bapaniah Penugonda, Associate Professor, NYU Dentistry; Katie Baron



G7.3 JOURNEY TO SAFETY EXCELLENCE: CULTIVATING SAFETY LEADERSHIP CULTURE

Dr. Wes Scott, Director - Consulting Services/Safety Mgmt., National Safety Council



G7.4 HOW TO MANAGE & DEPLOY AN AUTOMATED EXTERNAL DEFIBRILLATOR PROGRAM

Co-Chair - Brian Leonard, President, Cardio Partner Resources



G7.5 RADIATION POLLUTION & THE IMPACTS ON HUMAN HEALTH & THE ENVIRONMENT

Katie Baron, Dental Student, NYU Dentistry; Dr. Bapaniah Penugonda



G7.6 SAFETY LEADERSHIP: BE THE CHANGE THAT YOU WANT TO SEE

Cassandra Dillon, Principal Consultant, Compliance Solutions

G8. OPERATIONS & MANAGEMENT

G8.1 UNLOCKING THE POWER OF YOUR INFORMATION ASSETS

Co-Chair - Sloane Whiteley, Expert Practitioner, North Highland



G8.2 TRANSFORMER COOLING SYSTEMS MAINTENANCE

Kevin Riley, Product Development Manager, Trantech Radiator Products



G8.3 IMPROVING TECHNICAL COMPETENCY IN POWER PLANTS

Co-Chair - Matthew Zuehls, Power Section Manager, HDR; Robert Moss, Synterprise, LLC



G8.4 INTERPRETING RESULTS FROM INFRARED TECHNOLOGY

Steven Driver Ph.D., Global Energy Program Manager, Sanofi Genzyme

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INTERPRETING RESULTS FROM INFRARED TECHNOLOGY

Steven Driver Ph.D., Global Energy Program Manager, Sanofi Genzyme

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Wednesday | February 8 | 1PM - 3PM

H1. CCR & ELG COMPLIANCE MGMT.

H1.1 CHARTING A PATH TO ELG COMPLIANCE

Colleen Layman, Vice President, HDR



H1.2 INTEGRATED SOLUTIONS FOR CCR AND ELG COMPLIANCE

Dennis Johnson, Staff Consultant, Amec Foster Wheeler, Elmer Mitchell



H1.3 FUTURE REGULATORY COMPLIANCE IS MORE COMPLEX THAN JUST CCR/ELG

Co-Chair - Jason Eichenberger, Associate Civil Engineer/CCR Business Unit Manager, Burns & McDonnell; Jim Palmer, Principal Engineer, Kansas City Power & Light



H1.4 ASH HANDLING & PLANT WASTEWATER TREATMENT FOR CCR & ELG COMPLIANCE

Session Sponsor & Co-Chair - Mike Preston, Chemical Engineering, Black & Veatch



H1.5 CASE STUDY ELECTRIC UTILITY COMPLIANCE – NEW EPA EFFLUENT LIMITATIONS

Jay Weist, Sr. Consultant, WorleyParsons; Nadeau, WorleyParsons; Jackson, Santee Cooper



H1.6 GEOSYNTHETIC REINFORCEMENT IN SURFACE IMPOUNDMENT CLOSURES

Richard Sack, PE, Senior Engineer, TenCate Geosynthetics; John Herrmann



Wednesday | February 8 | 3:30PM - 5:50PM

H2. GHG & GREEN PROGRAMS

H2.1 GHG EMISSIONS FROM UPSTREAM HYDRAULIC FRACTURING ACTIVITIES

Peter LaPuma, Associate Professor, George Washington University; Chris Sibrizzi



H2.2 GREENING FOSSIL FUELS

Co-Chair - Eric Bettelheim, Executive Chairman, Floresta Singapore Pte Ltd



H2.3 STUDY ON THE MODELING COMPARISON FOR GHG REDUCTION SCENARIO WRITING

Taeuk Byun, Hoseo University; JinDo Chung & Tae-Woo Kim



H2.4 CCO INVALIDATION RISK MITIGATION

Co-Chair - Ben Apple, Principal, ECC



H2.5 IMPACTS ON BUILDING ENERGY DEMAND OF TWO URBAN MICROCLIMATE SCENARIOS

Roberto San Jose, Head Professor, Technical University of Madrid (UPM)



H2.6 ACCELERATING CORPORATE LEADERSHIP THROUGH SCIENCE-BASED TARGETS

Dorothy Li, Senior Project Officer, CDP



H2.7 SF6 MANAGEMENT CHALLENGES

Lukas Rothlisberger, CEO, DILO Company, Inc.



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

H3. CCR RULE

H3.1 EPA'S FINAL CCR RULE IS YOUR SITE ON TRACK WITH COMPLIANCE REQUIREMENTS

Douglas Dahlberg, Project Associate, Sargent & Lundy LLC; Mohammad Karim



H3.2 MANAGING CCR RULE COMPLIANCE: HOW TO MANAGE IN PUBLIC ENFORCEMENT

Stephanie Nicholson, Partner, ERM; Dave Wasiela



H3.3 CCR RULE & ELGS – USING SCIENCE TO ACHIEVE COMPLIANCE

Co-Chair - Jonathan Shimko, Director, Power & Water Solutions, Tetra Tech, Inc.



H3.4 CCRs AND THE CCR RULE - LEGISLATION AND LITIGATION

Co-Chair - Sam Boxerman, Partner, Sidley Austin



H3.5 CCR UNITS: MAXIMIZE CAPACITY BY MANAGING THE BIG PICTURE W/ CASE STUDY

Jason Pokorny, Senior Project Manager, Haley & Aldrich, Inc.; Steve Putrich



H3.6 PROGRESS AND BEST PRACTICES ON CCR RULE

Dan Wittliff, Managing Director, Environmental Services, GDS Associates, Inc.



Thursday | February 9 | 10AM - 12PM

H4. CCR & ELG

H4.1 RECLAIMING & RECYCLING COAL FLY ASH FOR BENEFICIAL REUSE

Session Sponsor & Co-Chair - Bill Fedorka, Director - Engineering, The SEFA Group



H4.2 DENSE SLURRY SEQUESTRATION OF CONCENTRATED FGD WASTEWATER

Dale Timmons, Program Manager, NAES Corporation



H4.3 TURNING THE CORNER - CCR MANAGEMENT AFTER OCTOBER 17

Mark Rokoff, Vice President, AECOM



H4.4 CCR CORRECTIVE ACTION & YOUR WATER BALANCE: WHAT YOU NEED TO KNOW

Katie Bland, Process Section Manager, Burns & McDonnell; Sarah Gilstrap



H4.5 TOXIC TRACE METAL LEACHING EVALUATION OF HYDRATED LIME DSI BASED FLY ASH

Richard Zhang, Senior Research Engineer, Mississippi Lime Company; Honglan Shi & Jianmin Wang, Missouri University of Science and Technology



H4.6 IN DEFENSE OF THE PROFESSIONAL ENGINEER: CCR CITIZEN LAWSUITS

Session Sponsor & Co-Chair - James Aiken, P.G., Vice President, Barr Engineering Co.



Thursday | February 9 | 1PM - 3PM

H5. COAL ASH, CCR & FGD

H5.1 DEVELOPING A STRATEGY FOR FGD WASTEWATER BYPRODUCT ENCAPSULATION

Co-Chair - Keith Ambrose, Chemical Engineer, Duke Energy



H5.2 IMPORTANCE OF COMPREHENSIVE CONCEPTUAL SITE MODEL FOR CCR COMPLIANCE

Wayne Weber, Section Manager/Senior Environmental Engineer, Burns & McDonnell



H5.3 OPPORTUNITIES FOR ELIMINATING WASTEWATER DISCHARGES THROUGH SOLIDS FIX

Sue Longo, Principal, Golder Associates



H5.4 IMPACTS OF WET FGD WASTEWATER FOR ELG COMPLIANCE

Mark Bleckinger, Air Quality Control Section Manager, Black & Veatch



H5.5 ASTM STANDARDS-BENEFICIAL USE OF CCP STORED IN LANDFILLS OR IMPOUNDMENTS

Gwen Eklund, Director, Electric Utilities Services, Western Region, Weston Solutions, Inc



H5.6 CCR RULE TIMING SUGGESTS PRE-EMPTIVE CM/CA STRATEGIES IS PRUDENT

Co-Chair - Steven Putrich, VP, CCR & Industrial Waste Program Director, Haley & Aldrich; David Hage



Thursday | February 9 | 3:30PM - 5:30PM

H6. FGD, ELG, CCR & CCS

H6.1 BOTTOM ASH SYSTEM WATER CHEMISTRY ISSUES

Co-Chair - Kristin Glikbarg, Associate Process Engineer, Burns & McDonnell; Heun, LG&E; Roush & Tewell, Burns & McDonnell



H6.2 WET-TO-DRY BOTTOM CONVERSIONS

Kevin McDonough, Vice President of Sales and Marketing, United Conveyor Corporation



H6.3 U.S. EPA'S FINAL CCR RULE: A CLEAN CLOSURE SUCCESS

Jason Fifarek, Sr. Associate, Sargent & Lundy; Dahlberg, Sgt. & Lundy; Skalitzky, Alliant Energy



H6.4 CCR GW MONITORING: WHY "TOTAL METALS" APPROACH "MUDDIES" THE WATER

Co-Chair - Scott Korom, Senior Environmental Engineer, Barr Engineering Company



H6.5 EMERGING TECHNOLOGIES FOR ELG COMPLIANCE

Patricia Scroggin, Sr. Water/Wastewater Treatment Consultant, Burns & McDonnell



H6.6 CCR RULE: GEOPHYSICAL TECHNIQUES TO CERTIFY UWL STABILITY & KARST GWM

Gary Pendergrass, Principal, GeoEngineers, Inc.



Friday | February 10 | 7:30AM - 9:30AM
H7. CCS: CARBON CAPTURE & STORAGE
H7.1 STATUS OF TECH DEVELOPMENT AT THE NATIONAL CARBON CAPTURE CENTER

Roxann Laird, Director - National Carbon Capture Center, Southern Co.; Frank Morton


H7.2 OPTIMIZING CCS PROCESSES USING FTIR MEASUREMENT TECHNOLOGY

Co-Chair - Jim Cornish, Sales & Support Manager, Gasmeter Technologies


H7.3 CCS APPLICATION & CONSIDERATIONS ON EXISTING COAL-FIRED POWER PLANTS

Emily Kunkel, Sr. Enviro. Associate, Sargent & Lundy; Danielle Flagg & Rajendra Gaikwad


H7.4 UPDATE ON KM CDR PROCESS PROJECTS FOR COAL-FIRED POWER PLANTS

Takahito Yonekawa, Engineering Manager, MHI; Miyamoto, Tsujiuchi & Thomas


H7.5 POLICY PARITY OF CCS/CCUS: THE CONTINUED CASE FOR CCS

Session Sponsor & Co-Chair - Barry Worthington, Executive Director, United States Energy Association; Amishi Kumar & Will Polen


H7.6 SUPERCRITICAL CO2 CYCLES FOR POWER PRODUCTION

Jason Laumb, Principal Engineer, Energy & Environmental Research Center

Friday | February 10 | 10AM - 12PM
H8. CCS II
H8.1 PHOTOSYNTHETIC SEQUESTRATION

Co-Chair - Eric Bettelheim, Executive Chairman, Floresta Singapore Pte Ltd


H8.2 EVALUATION OF CCS ECONOMICS FOR A GENERATION FACILITY IN NORTH DAKOTA

Co-Chair - Joshua Stanislawski, Principal Process Engineer, Energy & Environmental Research Center


H8.3 ILMENITE AS OXYGEN CARRIER IN PRESSURIZED CHEMICAL LOOPING COMBUSTION

Yewen Tan, Research Scientist, Natural Resources Canada, CanmetENERGY; Dennis Lu & Robin Hughes


H8.4 PHOTOCATALYTIC REDUCTION OF CO2 BY (CU/ZNO)@TiO2 NANOREACTORS

Hong Paul Wang, Professor, National Cheng Kung University; J. Wang, University of California; W.-K. Lin, National Tsing-Hua University; Y.-L. Wei, Tunghai University; C.-J. Jou, National Kaohsiung First University of Science and Technology; H. Paul Wang & L.-C. Cheng, National Cheng Kung University

Wednesday | February 8 | 1PM - 3PM
I1. WASTEWATER MANAGEMENT

I1.1 A UTILITY COMPLIANCE PERSPECTIVE TO WASTEWATER MANAGEMENT

Bill Skalitzky, Manager Environmental Generation Compliance, Alliant Energy Corp.


I1.2 WASTEWATER FOR POWER PLANT COOLING & BOILER FEED MAKEUP WATER

Kuang Lee, Global Product Manager - Energy Waste Water, Ovivo USA


I1.3 A PUSH FOR NON-POINT SOURCE NUTRIENT REDUCTION IN THE U.S.

Co-Chair - Sarah Gilstrap, Senior Environmental Scientist, Burns & McDonnell Engineering


I1.4 ENERGY CONSERVATION IN WATER & WASTEWATER FACILITIES & ROLE OF M&V

Indra Maharjan, Program Manager, Ontario Clean Water Agency


I1.5 SPECIALIZED EVAPORATION TECHNOLOGY TO MANAGE FGD WASTEWATER

Lance Edling, VP of Engineering, Vacom Systems


I1.6 PROTECTING YOURSELF FROM PROBLEMS WITH ANALYTICAL LABORATORY DATA

Co-Chair - David Thal, Principal Chemist, Environmental Standards, Inc.

Wednesday | February 8 | 3:30PM - 5:30PM
I2. WATER REMEDIATION & 316(b)

I2.1 PLANT UPGRADES COOLING WATER INTAKES TO MEET EPA'S 316(B) REQUIREMENTS

Greg Rocheleau, Mgr., Makai Ocean Eng.; D. Hayes, Intake Screens; D. Jensen, Makai


I2.2 NAVIGATING ENDANGERED SPECIES ACT REQUIREMENTS OF THE 316(B) RULE

Kerry McGrath, Associate, Hunton & Williams LLP


I2.3 ROLE OF THE ENTRAINMENT STUDIES IN THE DIRECTOR'S BTA DETERMINATION

Co-Chair - Christopher Wiggins, Sr. Aquatic Ecologist, Burns & McDonnell


I2.4 USING ALGAE TO REMOVE SILICA FROM FLY ASH POND WATER

Terry Baxter, Associate Professor, Northern Arizona University


I2.5 SURPRISING EFFICACY OF "SIPPING" HEAVY DNAPL WITH PISTON PUMPS

Mark Bertane, President, Blackhawk Technology Company


I2.6 USE OF NANOTECHNOLOGY FOR REMEDIATION OF UTILITY VAULT WASTEWATER

Co-Chair - Allan Pronovost, Chief Scientific Officer, Red Lion Chem Tech, LLC

Thursday | February 9 | 7:30AM - 9:30AM
I3. 316(b)

I3.1 COLLABORATIVE 316(B) STUDY OF SEVEN OHIO RIVER POWER PLANTS

Greg Seegert, Chief Ichthyologist, EA Eng.; J. Rager & J. Vondruska, EA; D. Dixon, EPRI


I3.2 PROTECTING THE FISH CAN BE THAT SIMPLE

Co-Chair - Trent Gathright, Regional Business Development, Ovivo USA


I3.3 LESSONS LEARNED FROM RECENT 316(B) INSTALLATIONS

Co-Chair - Brett DeRousse, National Account Manager, Hydrolox


I3.4 THERMAL PLUME MAPPING FOR MIXING ZONE AND 316(A) STUDIES

Gregory Howick, Senior Aquatic Ecologist, Burns & McDonnell Engineering

Thursday | February 9 | 10AM - 12PM

14. FGD WASTEWATER & ZLD

14.1 CHEMICAL SOFTENING FOR FLUE GAS DESULFURIZATION WASTEWATER TREATMENT
 Chef Acharya, Research Engineer, Southern Company, Jeffery Preece, EPRI

14.2 DEVELOPMENT OF FGD WASTE WATER COMPLIANCE OPTIONS FOR AEP COAL FLEET
 William Heins, Global Market Development Leader, GE Water & Process Technologies;
 Thomas L. Hart, American Electric Power (AEP)

14.3 FORWARD OSMOSIS BASED TREATMENT OF FGD WASTEWATER
Co-Chair - Mary Theresa Pendergast, Director, Oasys Water; Nowosielski, Carter & Tracy

14.4 DESIGN OF FGD ZLD SYSTEMS - INNOVATION, SIZING TOOLS & WASTE DISPOSAL
 Dennis Fink, Water-for-Power Technology Leader, CH2M; Perez, Higgins & Davis

14.5 KLEENWATER FGD ZLD, 5GPM PILOT STUDY RESULTS
 Mark Pastore, VP Technology, EES, Inc.; David Martin, ProChem, Inc.

14.6 THE TRUE COST OF ZERO LIQUID DISCHARGE
Co-Chair - Michael Marlett, Engineering Mgr., Aquatech Intl./AquaChem ICD

Thursday | February 9 | 1PM - 3PM

15. FGD WASTEWATER & ELG

15.1 CASE STUDIES OF FGD/ELG COMPLIANCE SOLUTIONS AT THREE POWER PLANTS
Co-Chair - Nelson Fonseca, Senior Manager, GE Water & Process Tech.; Lanny Weimer

15.2 FGD COMPLIANCE : APPLYING WATER BALANCE TOOL FOR POWER PLANTS
 Charlie He, Associate VP, Carollo Engineers; Jessica Dresang & Peter Bokor

15.3 TWIN FLUID SDA (SPRAY DRYER ABSORBER) DESIGN A VIABLE CHOICE
Co-Chair - Robert Van Durme, P.E., Regional Sales Manager, Lechler; Gabriel Pacheco

15.4 COMBINING TECHNOLOGIES IN THE TREATMENT TRAIN FOR ASH AND FGD WATERS
 Mark Kropilak, CEO, Liberty Hydro, Inc.

15.5 LESSONS IN GOING TO CLOSED LOOP BOTTOM ASH FOR ELG RULE COMPLIANCE
 Clark Harrison, Sr. Manager, CH2M; Paul Chu, EPRI; D. Fink, L. Reid & C. Roby, CH2M

15.6 TRENDS IN BIOLOGICAL TREATMENT FOR FGD WASTEWATER
 Diane Martini, Sr. Water & Wastewater Consultant, Burns & McDonnell; Sidney Vadbunker

Thursday | February 9 | 3:30PM - 5:50PM

16. 316(b), ELG, WASTEWATER

16.1 DEMONSTRATION OF FRONTIER SEHAWK AT THE WATER RESEARCH CENTER
 Tyler Crome, Research Engineer, Southern Company

16.2 ASTM D6041- CUSTOM FIBERGLASS REINFORCED PLASTIC (FRP) PROOF OF DESIGN
Co-Chair - Tony Zacharewych, Mechanical Engineer, RPS Composites

16.3 ONLINE MONITOR PROVIDES LOW LEVEL SE ANALYSIS TO AID ELG COMPLIANCE
 Vladimir Dozortsev P.h.D., Development Manager, AMS; Rex Siste

16.4 ONLINE MEASUREMENTS OF HG, AS AND SE IN FGD WASTEWATER STREAMS
Co-Chair - Warren Corns, Research and Development Manager, P S Analytical Ltd

16.5 WE'RE IN HOT WATER: ALTERNATE THERMAL EFFLUENT LIMITS UNDER THE CWA
 Amy Antonioli, Counsel, Schiff Hardin

16.6 ISOTOPE SEPARATION BY SELECTIVE MIGRATION
 Charles Bleistein, CEO, CBT Holding, LLC; Dr. Venkat Bhethanabotla, PhD, & Hunter Johnson, University of South Florida

Friday | February 10 | 7:30AM - 9:30AM

17. WASTEWATER SELENIUM

17.1 WASTEWATER SELENIUM CHEMISTRY IN BIOREACTOR TREATMENT SYSTEMS
Co-Chair - James Fox, Technical Sales Mgr., Brooks Applied Labs; Michelle Briscoe & Russell Gerads

17.2 SELENIUM REMEDIATION USING ALGAE
Co-Chair - Samuel Shepherd, Director of Technology, SBC CapTec, LLC

17.3 SELENIUM REMOVAL FROM COAL IMPACTED WATER USING A NOVEL LENA UF SYSTEM
 Jaeho Ho, Process Engineer, Doosan Hydro Technology; Rob Broglio

17.4 SELENIUM CONTROL BY OPERATING CONDITIONS OF WET-FGD
 Hiroyuki Akiho, Research Scientist, CRIEPI; Naoki Noda & Shigeo Ito

17.5 PASSIVE TREATMENT OF SELENIUM FOR COST-EFFECTIVE SELENIUM REMOVAL
 James Bays, Technology Fellow, CH2M; B.T. Thomas & Jeffrey Tudini

17.6 SELENIUM AND NITROGEN CONTROL IN FGD WASTEWATER
 Somnath Basu, Vice President Global Process Engineering, Headworks International

Friday | February 10 | 10AM - 12PM

18. WATER SUPPLY & SECURITY

18.1 BIO-RECHARGE : THE SCIENCE OF WATER CYCLE MANAGEMENT
Session Sponsor & Co-Chair - Gare Henderson, Director, INDRA Institute

18.2 POINT OF USE WATER RECYCLING IN ELECTRIC UTILITY PLANTS
 Azita Yazdani, P.E., Founder and CEO, Exergy Systems, Inc.

18.3 REDUCING DISCHARGE FINES AND NEGATIVE PR THROUGH AUTOMATION OF DMRS
Co-Chair - Paul Banfer, Vice President/Chief Technology Officer, EISC

18.4 A FORWARD OSMOSIS-MEMBRANE DISTILLATION PROCESS FOR FGD WASTEWATER
 Vinny Anderson, Graduate Research Assistant, The Ohio State University; Chin-Min Cheng, Tarunjit Butalia & Linda K. Weavers

POSTER

IDENTIFICATION OF ABRUPT CHANGE USING BAYESIN APPROACH
 Sang Ug Kim, Associated Professor, Department of Civil Engineering, Kangwon National University; Kyong Oh Baek

A MULTI-FUNCTION CONSTRUCTED WETLAND FOR STREAM PURIFICATION
 Chih-Ming Kao, Professor, National Sun Yat-Sen University, Taiwan; Y.T. Tu, W.H. Chen, R.Y. Surampalli

TRACK | J | BATTERY & STORAGE

ROOM 10

Wednesday | February 8 | 1PM - 3PM

J1. CHARGING & TRANSPORTATION

J1.1 DEPARTMENT OF ENERGY'S WORKPLACE CHARGING CHALLENGE

Co-Chair - Carrie Giles, Manager, ICF International



J1.2 CLIMATE-STABILIZING, CALIFORNIA LIGHT-DUTY VEHICLE REQS & ARB GOALS

Co-Chair - Mike Bullock, Transportation Committee Chair, Sierra Club



J1.3 SAFETY AS A SERVICE: INNOVATIONS IN CLOUD-BASED VIDEO

Blake Gasca, CEO, MuHu



J1.4 HYBRIDIZATION OF INTERCITY PASSENGER RAIL

Dave Cook, CTI, Rail Propulsion Systems



J1.5 A NEW FUELING NETWORK - CHALLENGES, OPPORTUNITIES AND APPLICATIONS

Michael Jones, Vice President Sales, NA West, ChargePoint



Wednesday | February 8 | 3:30PM - 5:30PM

J2. EV & PHEV

J2.1 ELECTRIC VEHICLES: THE KEY TO ENERGY INDEPENDENCE AND SECURITY

Co-Chair - Alex Wong, Sr. Structure & Pricing Analyst, The Energy Authority



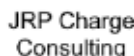
J2.2 PLUG-IN HYBRID VEHICLE IMPROVEMENT WITH COMBINED OF BATTERY WITH DLCAP

Toshihiko Furukawa, Senior Manager, United Chemi-Con; Naoki Akiba, Takahiro Kikuta & Shin Watanabe Nippon Chemi-Con Corp



J2.3 "EMPOWER THE PEOPLE" - EV CHARGING TOOLKIT FOR APARTMENTS AND CONDOS

Joel Pointon, Principal, JRP Charge Consulting



J2.4 ENERGY STORAGE & MGMT FOR TRANSPORTATION & STATIONARY ENERGY USE

Andrew Frank, CTO, Efficient Drivetrains Inc.



J2.5 EV TO GRID INTEGRATION - HOW IT WORKS? WHY IT MATTERS?

Preston Roper, Chief Marketing & Operations Officer, eMotorWerks



J2.6 NAVIGATING THE CONNECTED LANDSCAPE IN ELECTRIC VEHICLES

Session Sponsor & Co-Chair - Safiyyah Khan, Product Mkt Mgr., CLEAResult; Thor Hinckley



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

J3. BATTERY & STORAGE SYSTEMS

J3.1 ENERGY STORAGE AND AUTOMATED DEMAND RESPONSE

Co-Chair - Barry Haaser, Managing Director, OpenADR Alliance



J3.2 GRID SCALE ENERGY STORAGE PROSPECTS AT ISO/RTO

Co-Chair - Rao Konidena, Principal Advisor, Midcontinent ISO



J3.3 FUELING THE ENERGY STORAGE REVOLUTION

Andrew Miller, Analyst, Benchmark Mineral Intelligence



J3.4 IMPACT OF ELECTRIC VEHICLES ON COMMERCIAL DISTRIBUTION SYSTEMS

Mariz Arias, Graduate Student, Yeungnam University; J. Kim, S. Jeon & Sungwoo Bae



TRACK | J | BATTERY & STORAGE

ROOM 10

Thursday | February 9 | 10AM - 12PM

J4. BATTERY & STORAGE

J4.1 RISK ASSESSMENTS FOR BATTERY STORAGE SITES

Co-Chair - Jane Besch, Principal, Geosyntec; Dr. Eric Peterson, MMI Engineering



J4.2 OPTIMIZING THE DESIGN OF TURNKEY SOLUTIONS

Mike Tripodi, Principal Engineer, Girtz Industries; Brent Beissler



J4.3 ASSURANCE IN ENERGY STORAGE SYSTEMS: IDENTIFYING AND MINIMIZING RISK

Haiwen (Howard) Liu, Sr. Staff Engineer/Engineering Team Lead, Intertek Testing Services NA, Inc.; Brad Affeldt



J4.4 BATTERY SYSTEM DEVELOPMENT: ADDRESSING KEY TOPICS IN TERMS OF SAFETY

Co-Chair - Greg Maguire, Founder & VP of Sales & Marketing, Adara Power; Neil Maguire



J4.5 FREQUENCY REGULATION ENERGY STORAGE SYSTEM IN KOREA

David Nickerson, Director of Business Development, LSIS Co., Ltd.; Joowon Yoon



Thursday | February 9 | 1PM - 3PM

J5. BACK-UP POWER & ENERGY STORAGE

J5.1 ENERGY STORAGE APPLICATIONS IN COGENERATION POWER PLANTS

Co-Chair - Joel Wilson, Senior Engineering Manager, MMR Power Solutions



J5.2 MEDIUM VOLTAGE HEATING SYSTEMS ENABLE THERMAL ENERGY STORAGE SOLUTIONS

David Taylor, Energy Market Sales Manager - Americas, Chromalox



J5.3 MODULAR LNG: ALTERNATIVE BACK-UP ENERGY SUPPLY FOR POWER GENERATORS

Co-Chair - Michael Nicoloro, Senior VP, Sanborn, Head & Associates; Joan Fontaine



J5.4 DESIGN AND CONTROL OF AN INTERLEAVED POWER CONVERTER

Woonki Na, Assistant Professor, Cal St Univ-Fresno; Min-Keuk Kim, KDSYSTeK; Joonghoon Kim, Chungnam National University



J5.5 RAIL WAYSIDE ENERGY STORAGE FOR GRID STABILITY AND BACKUP POWER

Brian Yanity, CTI, Rail Propulsion Systems



Thursday | February 9 | 3:30PM - 5:30PM

J6. ENERGY STORAGE TECHNOLOGY

J6.1 JCESR - A NEW PARADIGM FOR ENERGY STORAGE RESEARCH

Devin Hodge, Deputy Director for Operations, Argonne National Laboratory



J6.2 GWH ENERGY STORAGE AT < \$ 1.00/KWH CAPEX: HYDROGEN & AMMONIA FUELS

Co-Chair - Bill Leighty, Director, The Leighty Foundation



J6.3 VANADIUM FLOW BATTERY - LONG TERM ENERGY STORAGE ASSET

Matthew Maers, Business Development - North America, Gildemeister Energy Storage



J6.4 EARLY STAGE CAPITAL FOR DISRUPTIVE ENERGY

Co-Chair - Marilyn Waite, Senior Manager, Village Capital



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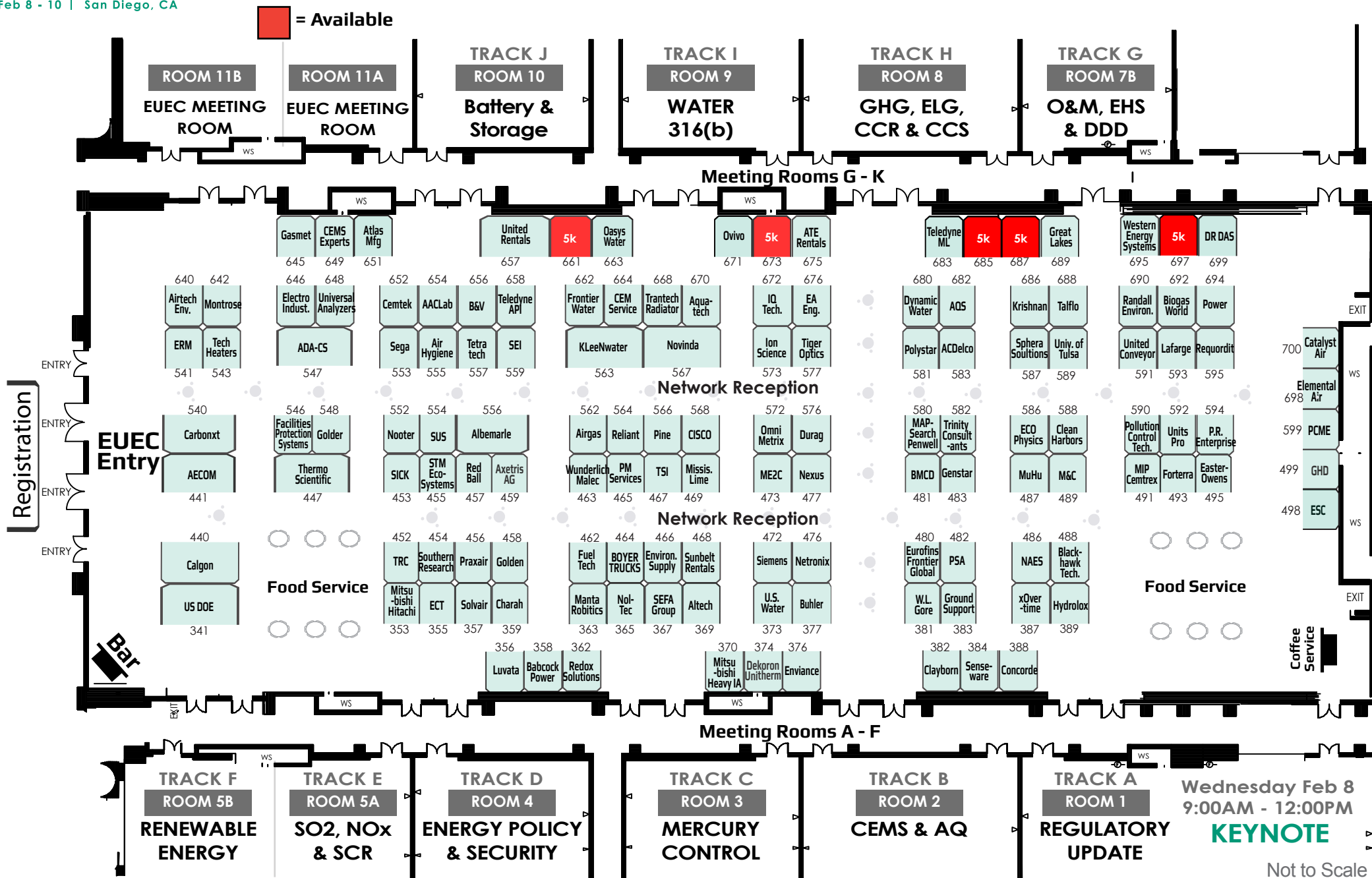


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7. Tickets to Welcome Reception Tuesday 2/7/17 (5 pm to 7 pm)
8. VIP rate for all clients and guests

EXHIBIT SHOW HOURS

Tue. Setup	12 pm to 6 pm
Wed. Feb 8	12 pm to 6 pm
Thur. Feb 9	9 am to 6 pm
Fri. Feb 10	9 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 6 pm

Booth Number - Exhibiting Companies

583 ACDelco GM	498 Environmental Systems(ESC)	465 Plant Maintenance Svcs.
547 ADA Carbon Solutions	541 ERM	590 Pollution Control Tech.
675 Advanced Test Equipment	480 Eurofins Frontier Global	581 Polystar Containment
441 AECOM, Inc.	546 Facilities Protection Systems	694 Power
555 Air Hygiene	493 Forterra Building Products	456 Praxair
682 Air Quality Services	662 Frontier Water Systems	690 Randall Environmental
562 Airgas	462 Fuel Tech, Inc.	457 Red Ball Technical Gas
640 Airtech Environmental	645 Gasmot	362 Redox Solutions
556 Albemarle	483 Genstar Tech. (GENTEC)	564 Reliant CEM Services
369 Altech	499 GHD	595 Requordit, Inc.
670 Aquatech International	458 Golden Specialty	367 SEFA Group, Inc, The
651 Atlas Manufacturing Co. Inc.	548 Golder Associates. Inc.	553 Sega, Inc.
654 AACLab, Inc.	689 Great Lakes Solutions	384 Senseware
459 Axetris AG	383 Ground Support	453 SICK
358 Babcock Power	389 Hydrolox	472 Siemens Industry, Inc.
692 BiogasWorld	573 Ion Science, Inc.	554 Smart Utility Systems
656 Black & Veatch	672 IQ Technologies	357 SOLVAir Natural Solutions
488 Blackhawk Technology	563 KLeeNwater, LLC	559 Southern Environmental
464 Boyer Trucks	686 Krishnan & Associates	454 Southern Research
377 Buhler Technologies	593 Lafarge	587 Sphera Solutions
481 Burns & McDonnell	356 Luvata	455 STM Ecosystems
440 Calgon Carbon	489 M & C Tech Group NA	468 Sunbelt Rentals, Inc.
540 Carbonxt, Inc.	363 Manta Robotics, LLC	688 TalFlo
700 Catalyst Air Management	580 MAPSearch Pennwell	543 Technical Heaters, Inc.
664 CEM Service Group, Inc.	473 Midwest Energy Emissions	658 Teledyne API
649 CEMS Experts	491 MIP Cemtrex Inc.	683 Teledyne Monitor Labs
652 Cemtek Environmental, Inc.	469 Mississippi Lime Company	557 Tetra Tech, Inc.
359 Charah, Inc.	370 Mitsubishi Heavy Industries	447 Thermo Scientific
382 Clayborn Labs	353 Mitsubishi Hitachi Power	577 Tiger Optics, LLC.
588 Clean Harbors	642 Montrose Environmental	668 Trantech Radiator Products
388 Concorde Specialty Gases	487 MuHu	452 TRC Companies, Inc.
568 CiSCO	486 NAES	582 Trinity Consultants
374 Dekoron Unitherm	476 Netronix	467 TSI, Inc.
699 DR DAS LTD	477 Nexus Solutions, Inc.	341 U.S. DOE, Office Clean Coal
576 Durag, Inc.	365 Nol-Tec Systems	373 U.S. Water
680 Dynamic Water Tech.	552 Nooter	591 United Conveyor Corp.
676 EA Engineering, Sci. & Tech.	567 Novinda	657 United Rentals
495 Easter-Owens	663 Oasys Water	592 UnitsPro
586 ECO Physics	572 OmniMetrix	648 Universal Analyzers, Inc.
646 Electro Industries/GaugeTech	671 Ovivo USA	589 University of Tulsa, The
698 Elemental Air	594 P.R.EnterpriseINC	381 W.L. Gore & Associates
376 Enviance	482 P S Analytical	695 Western Energy Systems
355 Environ. Consulting & Tech	599 PCME	463 Wunderlich-Malec
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Arizona Electric Power Cooperative	NextEra Energy
Arizona Public Service Company	NiSource
Associated Electric Cooperative, Inc.	Northern Indiana Public Service Co.
Austin Energy	Northern Star Generation
Basin Electric Power Cooperation	NorthWestern Energy
Big Rivers Electric	Nova Scotia Power
Burbank Water & Power	NRECA
Calpine Corporation	NRG Energy
Central Iowa Power Cooperative	NV Energy
Central Minnesota Municipal Power Agency	ODEC
Clarke Public Utilities	Oklahoma Gas & Electric Company
Cleco Corporation	Old Dominion Electric Cooperative
Con Edison	Omaha Public Power District
Connecticut Natural Gas	Orange Grove Energy
Constellation Energy	Pacific Gas & Electric
Consumers Energy	PCPS Energy
CPS Energy	PECO Energy
Deseret Power	Platt River Power
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Dynegy	Puget Sound Energy - PSE
East Kentucky Power Cooperative	Riverside Public Utilities
Edison Electric Institute	Rochester Public Utilities
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Encina Power Station	Rural Electric Cooperative
ENGIE North America	Sacramento Municipal Utility District
Entergy Services	Salt River Project
Eversource Energy	San Diego Gas & Electric
Exelon Power	San Diego Water Authority
FirstEnergy Corp.	Santee Cooper
Florida Power & Light Company	SCANA
Grand Bahama Power Company	Schneider Electric
Great River Energy	Seattle City Light
Guam Public Utilities Commission	Sempra US Gas and Power
Hawaiian Electric	Sierra Power Company
Hoosier Energy	Southern California Edison
Independence Power & Light	Southern Company
Intermountain Power Service Corporation	Southern Connecticut Gas
JEA	Southern Power Company
Kansas City Board of Public Utilities	Sunflower Electric Power Corporation
Kansas City Power & Light	Tennessee Valley Authority
KU Energy, LLC	Texas Municipal Power Agency
Lansing Board of Water & Light	The United Illuminating Company
LG&E	Tri-State Generation and Transmission
Louisville Gas & Electric	Tucson Electric Power
Lower Colorado River Authority	Vectren Corp.
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