

2,000 ATTENDEES

400 SPEAKERS

200 EXHIBITS

USA's Largest
EUEC2019
 Energy, Utility & Environment Conference
 February 25-26 | San Diego, CA

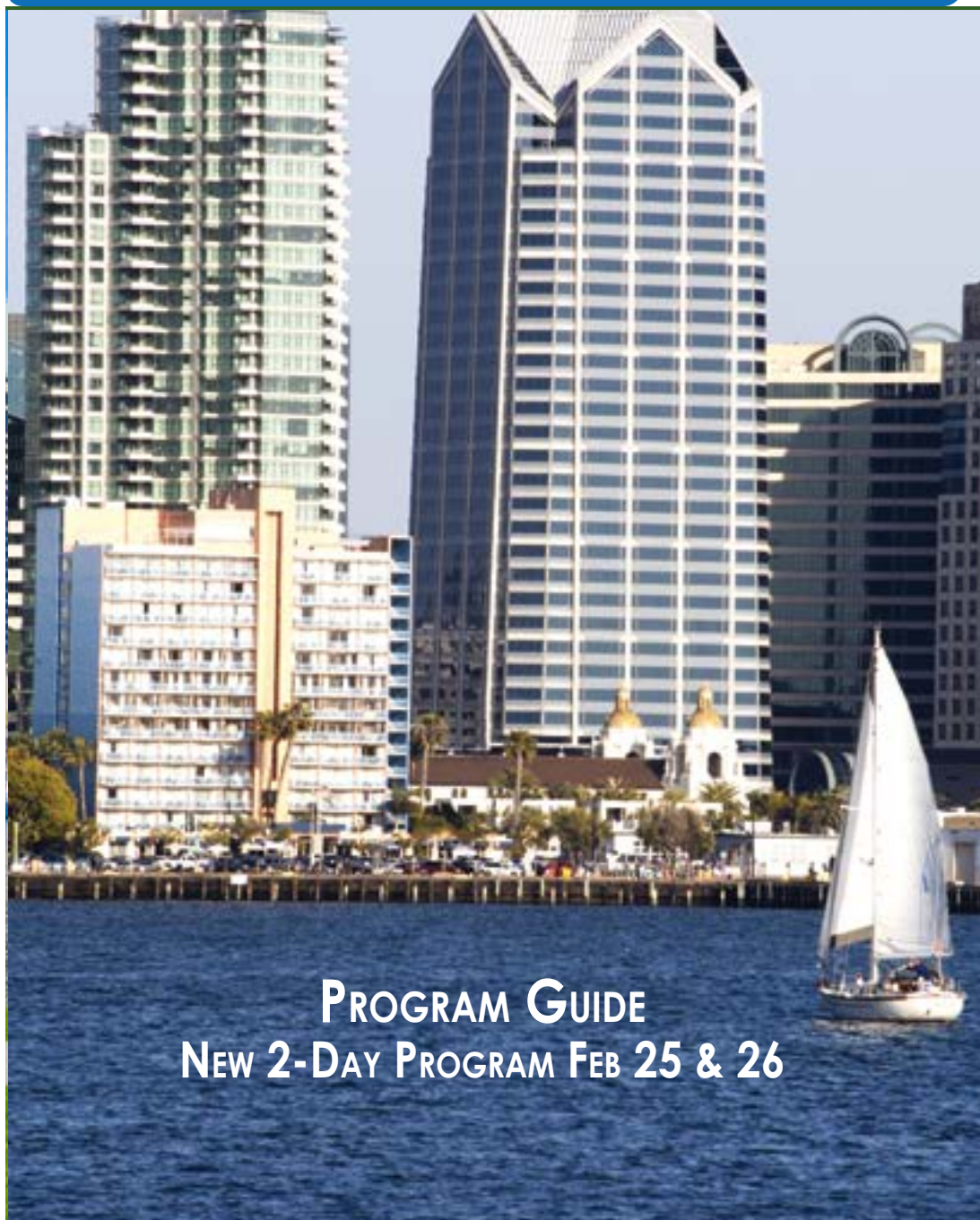
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TE-EXPO.com
 TRANSPORTATION ELECTRIFICATION


FEBRUARY 25-26, 2019 | SAN DIEGO, CA

EUEC 2019 HELD CONCURRENTLY WITH TE-EXPO



PROGRAM GUIDE
NEW 2-DAY PROGRAM FEB 25 & 26

What is EUEC & TE-EXPO?

EUEC 2019: The 22nd Annual Energy, Utility & Environment Conference, is the USA's largest professional networking and educational event of its kind, held February 25-26, 2019 at the Convention Center, San Diego, CA, with 1,500 attendees, 400 speakers and 200 exhibits.

The TE-EXPO is held across the hall from EUEC concurrently, in the 100,000 sq.ft. Sails Pavilion of the San Diego Convention Center. The TE-EXPO is free and open to public. TE-EXPO registrants can upgrade to attend all the TE and EUEC sessions and exhibits at a discounted rate.

TE-EXPO provides speaking and exhibit opportunities for suppliers of EV charging stations and infrastructure, batteries & storage, utility fleet, as well as ZEV & AFV, to showcase advanced technologies and strategies for compliance and implementation of SB-350 and for the transition of the transportation sector nationally. SB-350 directs California regulators (CPUC, ARB, CEC, AQMD) to electrify buses, trucks, fleet and off-road equipment, with \$1 billion funded by investor owned utilities SDG&E, SCE and PG&E.

SCHEDULE

The conference starts with the Keynote Session held in EUEC meeting room 1, from 8 am to 11:30 am on Monday, February 25, 2019.

There are a total of eleven breakout technical tracks (A to K) held in EUEC meeting rooms 1 to 11.

EUEC has nine technical tracks (A to I) held in meeting rooms 1 to 9. TE-EXPO has two technical tracks (J & K) held in meeting rooms 10 & 11.

EXHIBITS & RECEPTIONS

Lunches (12 to 1 pm) and Receptions (5 to 7 pm) are held in the EUEC exhibit hall on both days.

Tables and chairs are set up in the exhibit aisles to facilitate networking during the breaks. Beverage, Coffee and Snack Counters are open from 7 am to 6 pm on both days in the EUEC exhibit hall. No food is allowed in the meeting rooms.

**Exhibitors tear down is at 7 pm
 after the show ends on Tuesday Feb 26th at 7 pm.**

CHAIRMAN'S WELCOME RECEPTION BY THE WATERFRONT Sun, Feb 24th | 5 pm to 7 pm



8TH ANNUAL EUEC GOLF EVENT TORREY PINES GOLF COURSE Wed, Feb. 27, 2019 | 8:00AM



2-DAY EXHIBIT SHOW HOURS

Sun.	Setup	12 pm	to	6 pm
Mon. Feb 25		12 pm	to	7 pm
Tues. Feb 26		9 am	to	7 pm
Tues. Feb 26		7 pm	Tear Down	
Wed. Feb 27		8am	Tear Down	

SPEAKER FORMAT

Speakers introduce themselves.
Each session is 2 hours long with 6 speakers and 2 co-chairs.

SESSION CHAIR GUIDELINES

Moderate Session & remind speakers not to exceed their time limited to 20 minutes.
Do not rearrange speakers in published program.

EUEC 2019 & TE-EXPO SCHEDULE

Sunday | February 24

7:00 am - 7:00 pm Registration
12:00 pm - 6:00 pm Exhibit Set-up
5:00 pm - 7:00 pm Welcome Reception

Monday | February 25

7:00 am - 7:00 pm Registration
12 pm - 7:00 pm Exhibits Open
8:00 am - 12:00 pm KEYNOTE
12:00 pm - 1:00 pm Networking Lunch 1
1:00 pm - 3:00 pm Tech Session 1
3:00 pm - 3:30 pm Networking Break 2
3:30 pm - 5:30 pm Tech Session 2
5:00 pm - 7:00 pm Networking Reception 3

Tuesday | February 26

9:00 am - 7:00 pm Exhibits Open
7:30 am - 9:30 am Tech Session 3
9:30 am - 10:00 am Networking Break 4
10:00 am - 12:00 pm Tech Session 4
12:00 pm - 1:00 pm Networking Lunch 5
1:00 pm - 3:00 pm Tech Session 5
3:00 pm - 3:30 pm Networking Break 6
3:30 pm - 5:30 pm Tech Session 6
5:00 pm - 7:00 pm Networking Reception 7
7:00 pm - 10:00 pm Exhibit Tear Down

Wednesday | February 27

8:00 am - GOLF at Torrey Pines
8:00 am - 12:00 pm Exhibit Tear Down

NETWORK RECEPTIONS

AM Breaks	9:30 am	to	10 am
Lunches	12 pm	to	1 pm
PM Breaks	3 pm	to	3:30 pm
Receptions	5 pm	to	7 pm

2019 Keynote Speakers Monday, February 25th, 2019 Meeting Room 1



ELECTRIC SECTOR HELPING LEAD THE ENERGY TRANSFORMATION

Robert C. Rowe — 8:00AM - 8:30AM

President and CEO, Northwestern Energy



THE FUTURE FOR CARBON FREE FOSSIL ENERGY

Lou Hrkman — 8:30AM - 9:00AM

Deputy Assistant Secretary, Clean Coal & Carbon Management, U.S. Department of Energy



EPA AIR PROGRAM PRIORITIES MOVING FORWARD

Reid Harvey — 9:00AM - 9:30AM

Director Clean Air Markets Division, U.S. Environmental Protection Agency



TRANSPORTATION ELECTRIFICATION



SDG&E PROGRAMS FOR TRANSPORTATION ELECTRIFICATION & EVS

Michael M. Schneider — 9:30AM - 10:00AM

Vice President, Clean Transportation and Asset Management
San Diego Gas & Electric (SDG&E)



TRANSPORTATION ELECTRIFICATION

RICHARD COREY — 10:00AM - 10:30AM

Executive Officer, California Air Resources Board



DRIVING TOWARDS CLEANER AIR IN SOUTHERN CALIFORNIA

LAURA RENTER — 10:30AM - 11:00AM

Principal Manager of Air Quality & Climate, Southern California Edison



STRATEGIES FOR ACCELERATING ELECTRIC TRANSPORTATION NATIONALLY

JOHN BOESEL - 11:00AM - 11:30AM

President & CEO, CALSTART



HIGHLIGHTS OF EUEC2019 & TE-EXPO

Prabhu Dayal — 11:30AM - 11:45AM

Chairman, Energy, Utility, Environment Conference



MISSION STATEMENT

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

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Alabama Power Company	NRECA
Alliant Energy Corporation	NRG Energy
Ameren Corporation	NV Energy
American Electric Power	OGE Energy Corp
American Municipal Power, Inc.	Oklahoma Gas & Electric Company
Arizona Electric Power Cooperative	Old Dominion Electric Cooperative
Arizona Public Service Company	Omaha Public Power District
Associated Electric Cooperative, Inc.	Oncor Electric Delivery
Big Rivers Electric	Oneta Power, LLC
Calpine Corporation	Pacific Gas & Electric
Catawba County Government Utilities	PCPS Energy
Central Iowa Power Cooperative	PECO Energy
Central Minnesota Municipal Power Agency	Platt River Power
Clarke Public Utilities	Portland General Electric
Commonwealth Edison	PPL EnergyPlus LLC
Con Edison	PPL Montana Power Company
Con Edison Clean Energy	Prairie State Generating Co.
Connecticut Natural Gas	Puget Sound Energy - PSE
Constellation Energy	Rodan Energy Solutions Inc.
Consumers Energy	Rural Electric Cooperative
CPS Energy	Sacramento Municipal Utility District
Deseret Power	Salt River Project
Dominion Generation	San Diego Gas & Electric
DTE Energy	Santee Cooper
Duke Energy	SCANA
Dynegy	Seattle City Light
East Kentucky Power Cooperative	Sempra Utilities
EDF Inc	Sierra Power Company
Edison Electric Institute	SoCal Gas Co.
Empire District Electric Company	Southern California Edison
Encina Power Station	Southern Company
ENGIE North America	Southern Connecticut Gas
Entergy	Southern Power Company
Eversource Energy	SUEZ
Exelon Nuclear	Sunflower Electric Power Corporation
Exelon Power	Tenaska
Florida Power & Light Company	Tennessee Valley Authority
Georgia Power	Texas Municipal Power Agency
Grand Bahama Power Company	TransCanada
Great River Energy	Tri-State Generation and Transmission
Guam Power Authority	Tucson Electric Power
Guam Public Utilities Commission	Twin Oaks Power
Hawaiian Electric	Vectren Corp.
Hoosier Energy	WEC Energy Group
Independence Power & Light	Westar Energy
Intermountain Power Service Corporation	Xcel Energy
JEA	Alcoa Inc.
Kansas City Board of Public Utilities	Associated Electric Cooperative, Inc.
Kansas City Power & Light	Bear Valley Electric Service
KU Energy, LLC	Brazos Electric Power Cooperative
Lafayette Utilities System	Buckeye Power
Lansing Board of Water & Light	Central Maine Power Company
Lhoist North America	Clay Electric Cooperative, Inc.
Los Angeles Department of Water and Power	Colorado Springs Utilities
Louisville Gas & Electric	Corix Utilities
Luminant	Dairyland Power Cooperative
Madison Gas & Electric	Duquesne Light Company
Michigan South Central Power Agency	Ethiopian Electric power
Minnesota Power	Liberty Utilities
Minnkota Power Cooperative, Inc.	Massachusetts Water Resources Authority
Montana-Dakota Utilities Company	Matanuska-Susitna Borough
Muscatine Power and Water	Nashville Electric Service
Nebraska Public Power District	Nicor Gas
NextEra Energy	Northline Utilities LLC
NiSource	Ohio Valley Electric Corp
Northern Indiana Public Service Co.	Sudanese Hydro Generation and Renewable Energy Company.
Northern Star Generation	
NorthWestern Energy	







SCHEDULE AT-A-GLANCE

Track	A	B	C	D	E	F	G	H	I	J	K
Room #	Room 1	Room 2	Room 3	Room 4	Room 5A	Room 5B	Room 7B	Room 8	Room 9	Room 10	Room 11
SESSIONS	REGULATORY UPDATE	CEMS & EMISSION TESTING	SO ₂ , NO _x , Hg & SCR	POWER GEN & ENERGY SERVICES	SOLID WASTE, LANDFILL GAS, BIOFUELS	RENEWABLE ENERGY	O&M, DDD & EHS	ELG, CCR, CCS & FGD	WATER & 316(b) COOLING TOWER	UTILITY FLEET & TRANSPORTATION ELECTRIFICATION	BATTERY, STORAGE & CHARGING
Monday February 25th											
1 1:00PM to 3:00PM	REGULATORY UPDATE - AIR	CEMS & PEMS	SO ₂ , NO _x , Hg, COMPLIANCE	ENERGY POLICY & POWER PLANTS	WASTE TO ENERGY - CASE STUDIES	RENEWABLE ENERGY	DECOMMISSIONING OF POWER PLANTS	CCR & ELG COMPLIANCE MGMNT.	WASTEWATER, GROUND WATER, REMEDIATION, ELG, FGD	TE, ELECTRIC UTILITIES & EV CHARGING	BATTERY & ENERGY STORAGE SYSTEMS
2 3:30PM to 5:30PM	PERMITS REGS & COMPLIANCE	MONITORING, TESTING & INSTRUMENTATION	EMISSION CONTROL TECH. & STRATEGIES	PLANT PERFORMANCE & MATERIAL HANDLING	BIOGAS, BIOFUELS, BIODIESEL, ALGAE	RENEWABLE ENERGY PROJECT DEVELOPMENT	POWER PLANT O&M	COAL ASH, CCR & FGD	316(B), ELG, FGD, WASTEWATER	ADVANCE CLEAN TRUCKS - AFV & ZEV FLEETS	EV CHARGING
Tuesday February 26th											
3 7:30AM to 9:30AM	CAA, BACT, NESHAP, NEPA	MONITORING, TESTING & INSTRUMENTATION	SO ₂ , NO _x , Hg CONTROL TECH.	ENERGY & CYBERSECURITY	LMOP - LANDFILLS & LANDFILL GAS	RE SMARTGRID & MICROGRID	O&M, PLANT MANAGEMENT	CCR RULE	316(B), ELG & WASTEWATER	EV, PHEV, HYBRID, FLEET SUSTAINABILITY	RESIDENTIAL & COMMERCIAL CHARGING
4 10:00AM to 12:00PM	NSR	MONITORING, TESTING & SPECTROMETRY	DSI, ACI, ACTIVATED CARBON, SCR & SNCR	T&D, POWER PLANT TECHNOLOGIES	RNG & BIOFUEL PROJECT STRATEGIES	GHG & GREEN PROJECTS	EHS, EMIS & SAFETY	COAL ASH, CCR	316(B), COOLING TOWER	ULTRA CLEAN LD/MD/HD	BATTERY, STORAGE & CHARGING SYSTEMS
5 1:00PM to 3:00PM	REGIONAL HAZE & SUSTAINABILITY	MODELING & SATELLITE DATA	CONTROL & OPTIMIZATION	ENERGY POLICY & POWER PLANT STRATEGIES	LANDFILL MANAGEMENT & COMPLIANCE	MICROGRID & ENERGY STORAGE	OPERATIONS & OPTIMIZATION	CCS & RARE EARTH ELEMENTS	WATER SUPPLY & SECURITY	UTILITY FLEET	FUEL CELLS, LI-ION, H2, BATTERIES
6 3:30PM to 5:30PM	ENVIRONMENTAL SUSTAINABILITY & UTILITIES	DRONES, DATA MGMNT & MONITORING		PROJECT FINANCE & RISK MANAGEMENT		PV, SOLAR & SUSTAINABLE RE	EHS, RISK & ENERGY MGMT	FGD, ELG, CCR & CCS	WASTEWATER & WATER TREATMENT	CARB REGS, EV CHARGING PROJECTS	EV BATTERY, SUPPLY & CHARGING

TRACK | A | REGULATORY UPDATE







Monday | 1PM - 3PM

A1. REGULATORY UPDATE - AIR

-  **A1.1 ENERGY INDUSTRY REGULATIONS, 2019 - 2020**
Co-Chair - John Kinsman, Sr. Director - Environment, Edison Electric Institute
-  **A1.2 ACE RULE: ISSUES THAT EPA MUST ADDRESS**
Session Sponsor - Co-Chair - Jay Holloway, Partner, Williams Mullen
-  **A1.3 EPA CONSOLIDATES ITS MODELING POSITIONS**
Gale Hoffnagle, Senior Vice President, TRC
-  **A1.4 THE AFFORDABLE CLEAN ENERGY RULE: EVERYTHING YOU NEED TO KNOW**
Allison Wood, Partner, Hunton Andrews Kurth LLP
-  **A1.5 AFFORDABLE CLEAN ENERGY RULE: CHANGES IN EPA'S BENEFIT-COST ANALYSIS**
Kate Shouse, Analyst in Environmental Policy, Congressional Research Service
-  **A1.6 MOVING INTO THE 21ST CENTURY**
Bill Smalling, Attorney, The Law Office of C. William Smalling, PC







Monday | 3:30PM - 5:30PM

A2. PERMITS REGS & COMPLIANCE

-  **A2.1 AIR REGULATORY CHALLENGES FACING THE NATION'S ELECTRIC COOPERATIVES**
Session Sponsor - Co-Chair - Daniel Chartier, Regulatory Director, Environ. Policy, Nat'l Rural Electric Coop. Assoc.
-  **A2.2 CALIFORNIA CAP AND TRADE MARKET AND POST 2020 UPDATE**
Mike Taylor, President, Emission Advisors, Inc.
-  **A2.3 UTILITY LEVEL ADAPTATION IN A POST-MITIGATION ENVIRONMENT**
Co-Chair - Jesse Frederick, Vice President, WZL, Inc.
-  **A2.4 WHAT DOES CALIFORNIA'S AB 617 MEAN FOR REGULATED SOURCES?**
Chris Easter, Director, ESA; Heidi Rous, Anitra Rice
-  **A2.5 AIR QUALITY COMPLIANCE LESSONS DURING A UNIVERSITY CHP COMMISSIONING**
Brian Petermann, Senior Project Manager, POWER Engineers, Inc.
-  **A2.6 NEW FOSSIL FUEL-FIRED GENERATION UNITS - FEASIBILITY CONSIDERATIONS**
Thomas Pritcher, Vice President/National Air Quality Service Line Director, ECT

Tuesday | 7:30AM - 9:30AM






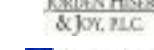
A3. CAA, BACT, NESHAP, NEPA

-  **A3.1 CLIMATE CHANGE AND TORT LITIGATION: THE PLAINTIFF'S BAR IS CIRCLING**
Co-Chair - Aaron Flynn, Partner, Hunton Andrews Kurth LLP
-  **A3.2 BATTERY STORAGE AS BACT - ANALYSIS OF EAB PSD PERMIT CHALLENGES**
Matthew Dobbins, Senior Associate, Vinson & Elkins
-  **A3.3 EMERGING ISSUES IN BACT DETERMINATIONS FOR GHG EMISSIONS**
Andrew Knudsen, Associate, Hunton Andrews Kurth LLP
-  **A3.4 STATIONARY COMBUSTION TURBINE NESHAP - RISK AND TECHNOLOGY REVIEW**
Co-Chair - Leslie Witherspoon, Manager, Environmental Programs, Solar Turbines Incorporated
-  **A3.5 ENERGY AND UTILITY SECTOR IMPLICATIONS OF NEPA REFORM**
Stacey VanBellegem, Partner, Latham & Watkins LLP
-  **A3.6 A MODIFIED NEPA PRE-PLANNING APPROACH TO SHORTEN EIS TIMEFRAMES**
Brian Buck, Vice President, Stantec Consulting

TRACK | A | REGULATORY UPDATE

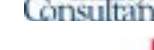
Tuesday | 10AM - 12PM

A4. NSR

-  **A4.1 NSR REFORM - SHOULD WE EXPECT RMRR RELIEF?**
Scott Osbourn, Principal, Trinity Consultants
-  **A4.2 NSR REFORM RECENT CHANGES**
Gurinder Saini, Sr. Environmental Engineer, RTP Environmental Associates, Inc.
-  **A4.3 NEW SOURCE REVIEW REFORM (REDUX)**
Andrew Knudsen, Associate, Hunton Andrews Kurth LLP; Makram Jaber
-  **A4.4 THE CONTINUED EVOLUTION OF NSR UNDER THE TRUMP ADMINISTRATION**
David Jordan, Partner, ERM
-  **A4.5 A DIVE INTO EPA'S SOURCE SPECIFIC ACTIONS: CONTINUITY OR CHANGE?**
Session Sponsor - Co-Chair - Eric Hiser, Partner, Jorden, Hiser & Joy, PLC
-  **A4.6 RECENT GUIDANCE & PROPOSED CHANGES TO NSR APPLICABILITY DETERMINATIONS**
Michael Rinkol, Environmental Engineer, Black & Veatch

Tuesday | 1:00PM - 3:00PM

A5. REGIONAL HAZE & SUSTAINABILITY

-  **A5.1 LATEST DEVELOPMENTS IN 2ND DECADAL REVIEW FOR THE REGIONAL HAZE RULE**
Co-Chair - Robert Paine, Associate Vice President, AECOM; Jeff Connors
-  **A5.2 PLANNING FOR REGIONAL HAZE ROUND 2**
Ryan Templeton, Environmental Engineer Specialist, Arizona DEQ
-  **A5.3 STRATEGY FOR THE REGIONAL HAZE RULE 2ND PLANNING PERIOD**
Jeremy Jewell, Principal Consultant, Trinity Consultants; Christine Chambers, Neelesh Sule
-  **A5.4 REASONABLY DEFINING REASONABLE PROGRESS**
Megan Berge, Partner, Baker Botts, LLP
-  **A5.5 "ENVISION" IMPROVEMENTS IN SUSTAINABILITY**
Dusty Miller, Environmental Scientist, Black & Veatch

Tuesday | 3:30 PM - 5:30 PM

A6. ENVIRONMENTAL SUSTAINABILITY & UTILITIES

-  **A6.1 IMPROVED REGULATORY RESULTS THROUGH ENVIRONMENTAL SUSTAINABILITY**
Co-Chair - Nicholas Morgan, Project Manager, Kleinschmidt Associates; Kimberly Long
-  **A6.2 A STRATEGIC APPROACH TO CONSERVATION STEWARDSHIP**
Kimberly Long, Environmental Performance Improvement Manager, Exelon Corp.
-  **A6.3 UTILIZING PUBLIC-PRIVATE CONSERVATION PARTNERSHIPS TO RECOVER SPECIES AND MAINTAIN OPERATIONAL FLEXIBILITY**
Joe Drumm, Natural Resources and Stewardship Manager, Southern Company
-  **A6.4 SUSTAINABLE PERFORMANCE AT TVA: CUSTOMER IMPACT AND ECONOMIC DEVELOPMENT**
Monte Matthews, Sr. Mgr & Deputy Chief Sustainability Officer, Tennessee Valley Authority
-  **A6.5 LADWP... ADDRESSING ENERGY-WATER NEXUS AND SUSTAINABLE WATER SUPPLIES**
Delon Kwan, Manager of Resources Development, L.A. Department of Water & Power
-  **A6.6 PRAIRIES TO POLLINATORS: DAIRYLAND POWER COOPERATIVE'S SEEDS OF CHANGE**
Brad Foss, Senior Environmental Biologist, Dairyland Power Cooperative

TRACK | B | CEMS & EMISSION TESTING

Monday | 1PM - 3PM

B1. CEMS & PEMS

B1.1 SMART SAMPLE HANDLING SYSTEMS FOR CEMS AND PMS

Session Sponsor - Co-Chair - Philipp Zimmer, Area Sales Manager, JCT Analysentechnik GmbH



B1.2 ENHANCED MEASUREMENT OF LOW-CONCENTRATION FORMALDEHYDE EMISSIONS

Co-Chair - Kevin Crosby, VP Technical, Montrose Environmental, Inc.



B1.3 STACK GAS ANALYSIS BY TUNABLE DIODE LASER (TDL) ANALYSIS

Frank DeThomas, Vice President Process & Environmental, HORIBA Instruments, Inc.



B1.4 IMPLEMENTING A SUCCESSFUL START-UP PERFORMANCE TESTING PROGRAM

Dan Grabowski, Project Director, TRC Environmental Corporation; Anthony Sakellariou



B1.5 DEVELOPMENT, CERTIFICATION AND OPERATION OF A PEMS

Richard Hovan, Director-EIS Business Development, Wunderlich-Malec; Jennifer Fantich



B1.6 SIMULTANEOUS MEASUREMENT OF NO & NOX FOR ACCURATE NO2 DETERMINATION

Tom McKarns, Principal, ECO PHYSICS, Inc.



Monday | 3:30PM - 6:00PM

B2. MONITORING, TESTING & INSTRUMENTATION

B2.1 INTRODUCTION OF THE PTR-TOF-MS INTO COMPLIANCE TESTING

Peter Zemek, SVP Emerging Technologies, Montrose Environmental, Inc.



B2.2 RICE & CT UNITS PERFORMANCE TESTING CONSIDERATIONS

Holly Hills, Senior Environmental Engineering Associate, Sargent & Lundy, Emily Kunkel



B2.3 CEMS: DESIGN, BUILD AND INSTALLATION CONSIDERATIONS

Phaneendra Uppalapati, Air Quality Engineer, AECOM, Frank Tringale, Larry La France



B2.4 SOURCES OF SO2 ANALYSIS INACCURACY IN LOW-SO2, HIGH-HUMIDITY SAMPLING

Craig Sunada, Vice President, Product Development, Perma Pure, LLC.



B2.5 EPA'S ELECTRONIC REPORTING TOOL (ERT)

Kathleen (Katie) Shonk, Quality Manager, Air Quality Services, LLC.



B2.6 ALTERNATIVE PORTABLE SOLUTION FOR REFERENCE METHOD TESTING

Dr. Dietmar Doll, Head of Research and Development, MRU Instruments, Inc.



B2.7 LASER UPDATE FOR CROSS DUCT AND OPEN PATH MEASUREMENT

Co-Chair - Bernadette Shahin, National Applications Manager, M&C TechGroup North America



B2.8 INTRODUCTION TO PART 75 CEMS DATA VERIFICATION AND DATA USE

Travis Johnson, Clean Air Markets Division, U.S. EPA



Tuesday | 7:30AM - 9:30AM

B3. MONITORING, TESTING & INSTRUMENTATION

B3.1 FLOW MONITOR K-FACTOR CALCULATIONS

Cindy Whitaker, Manager, Air Monitoring & Testing, Environmental Affairs, Louisville Gas & Electric - Kentucky Utilities; Matt Gentry, Airflow Sciences



B3.2 ADVANCES IN CONDENSABLE PARTICULATE MATTER MEASUREMENT

Co-Chair - David Elam, Vice President & Project Director, TRC



B3.3 TUNABLE DIODE LASER (TDL) FOR STACK GAS ANALYSIS

Frank DeThomas, VP Process and Environmental, Horiba Instruments, Inc.



B3.4 A STATE'S DILEMMA - REGULATING NH3 CEMS SYSTEM

Barbara Marshik, Global Power & Emissions Market Segment Manager, Servomex



B3.5 IMPACTS OF EPA REGION 6 GUIDANCE ON CMS DOWNTIME & DATA CALCULATION

Co-Chair - JP Kleinle, Project Manager, ALL4



B3.6 FACTORS AFFECTING PERFORMANCE OF NAFION DRYERS WITH SO2 AND NOX

Gene Bohensky, Director, Application/Partner Learning, Perma Pure, LLC.; Craig Sunada



TRACK | B | CEMS & EMISSION TESTING

Tuesday | 10AM - 12PM

B4. MONITORING, TESTING & SPECTROMETRY

B4.1 NEW DEVELOPMENTS IN PROTON TRANSFER REACTION MASS SPECTROMETRY (PTR-MS)

Steve LaZar, Business Development Consultant, The RJ Lee Group



B4.2 UTILIZING TUNABLE LASER SPECTROSCOPY (TDL) FOR NH3 COMPLIANCE

Gary Cacciatore, Midwest Regional Sales Manager, Cemtek KVB-Enertec



B4.3 LOW LEVEL NOX MONITORING ON FAST START TURBINES AND 7E PERFORMANCES

Chris Hall, Manufacturing Planning Manager, Thermo Fisher Scientific; Joe Vaglio



B4.4 STRATEGIES TO MINIMIZE CEMS DOWNTIME

Eric Wiley, Managing Consultant, Trinity Consultants



B4.5 SPECIATED HG EMISSION AS A FUNCTION OF FUEL TYPE AND CONTROL DEVICE

Co-Chair - Jeremy Whorton, Business Development Manager, Thermo Fisher Scientific; Jeff Socha



B4.6 TIPS FOR MANAGING A CEMS AND DAHS WITH LIMITED RESOURCES

Co-Chair - Matt Swanson, District Manager, West, VIM Technologies, Inc.; Brad Blase



Tuesday | 1:00PM - 3:00PM

B5. MODELING AND SATELLITE DATA

B5.1 DISPERSION MODELING FOR STRATEGIC ANALYSIS OF SO2 COMPLIANCE

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



B5.2 BUOYANT LINE SOURCE IMPLEMENTATION ISSUES IN AERMOD

Richard Hamel, Air Quality Meteorologist, ERM; Milena Borissova, Carlos Szembek



B5.3 ANALYSIS OF UPDATES TO AERMOD'S PRIME AND BPIP DOWNWASH ALGORITHMS

Jeff Connors, Manager, Air Quality Engineering and Studies, AECOM; Mary Kaplan, Robert Paine, Olga Samani



B5.4 ADVANCED SATELLITE ATMOSPHERIC MONITORING IS NO LONGER PIE IN THE SKY

Philip Father, CEO, Scepter, Inc.



B5.5 MONITORING METHANE EMISSIONS AT THE SOURCE FROM SPACE

Jean-Francois Gauthier, Director, Business Development, GHGSat; Stephane Germain



B5.6 PRIME2 BUILDING DOWNWASH ENHANCEMENTS

Co-Chair - Sergio Guerra, Senior Environmental Engineer, GHD; Ron Petersen, Petersen Research and Consulting, LLC



Tuesday | 3:30PM - 6:00PM

B6. DRONES, DATA MGMNT & MONITORING

B6.1 DRONES, SENSORS USE IN DENIED ENVIRONMENTS AND UTILITIES

Bruce Arvizu, Sr. Partner, Airworks Productions; Eric Pacheco



B6.2 NEW FLEXIBLE CROSS PLATFORM SOLUTION FOR DAHS & OPERATOR WORKPLACE

Nadezhda Semeniaka, CEO, LLC LOGOSGRUP



B6.3 THE EVOLUTION OF PART 75 - DATA MANAGEMENT AND REPORTING

Co-Chair - Katie Lindblom, Business Development, Trace Environmental Services; David B. Martin



B6.4 APPLICATION OF CEMS: AUTOMATED EMISSIONS REDUCTION

Grace Mitchell, Data Analyst, WattTime



B6.5 AIR QUALITY MONITORING SYSTEM FOR CHALLENGING LOCATIONS

Roland Zepeck, Sales Director, JCT Analysentechnik GmbH



B6.6 DATA MANAGEMENT FOR EMISSIONS, FENCELINE AND COMMUNITY MONITORING

Andrew Montz, Owner, DR DAS Ltd.



B6.7 ADVANCES AND NEW DIRECTION IN AMMONIA SLIP MONITORING IN CALIFORNIA

Bhaskar Chandan, Supervising Air Quality Engineer, South Coast Air Quality Management District; Dipankar Sarkar



Monday | 1PM - 3PM



C1. SO₂, NO_x, HG, COMPLIANCE

C1.1 NOX CONTROL, AND A LOT MORE, WITH CATALYTIC CERAMIC FILTERS
Kayla Olson, Senior Process Engineer, Tri-Mer Corporation



C1.2 USE OF HALOGEN ADDITIVES TO INCREASE FUEL FLEXIBILITY
Co-Chair - J. Duncan Kish, Sales Account Manager, ADA-ES, Inc.; Alyssa Fuller



C1.3 DITCHING YOUR MAJOR SOURCE MACT REQUIREMENTS
Kim Alfonsi, Senior Environmental Consultant, Barr Engineering Co.; Tony Widboom



C1.4 REACT® SYSTEM CHEMISTRY FOR MULTI-POLLUTANT CONTROL OF SO_x, NO_x, HG AND PM
Co-Chair - Domenic Contrino, Solutions Developer, Carbonxt; Regina Rodriguez, David Mazyck, Christine Valcarce



C1.5 ATLAS CARBON AND THE PNEUMATIC FLASH CALCINER
Michael Jones, CTO, Atlas Carbon, LLC

Monday | 3:30PM - 5:30PM



C2. EMISSION CONTROL TECH. & STRATEGIES

C2.1 A CASE STUDY: ENHANCED SO₃ TOLERANT PAC WITHOUT THE USE OF HALOGENS
Co-Chair - Curt Larson, Vice President - Sales, Carbonxt; Regina Rodriguez, David Mazyck, Lindsey Costin



C2.2 NEW TECHNOLOGY IMPROVEMENTS FOR RETROFITS AND SYSTEM UPGRADES
Co-Chair - Sean Dooley, Environmental Solutions, Nol-Tec Systems, Inc.



C2.3 SIMULATIONS OF TRAFFIC EMISSION REDUCTION STRATEGIES: MADRID EPISODE
Roberto San Jose, Professor, Technical University of Madrid (UPM); Rosa Gonzalez, UCM; Juan Perez, Libia P'erez, UPM



C2.4 MERCURY ADSORPTION TESTS USING ACTIVATED CARBONS
Sang-Sup Lee, Associate Professor, Chungbuk National University; Tanveer Ahmad, Sinang Choi, Jeong Min Park

Tuesday | 7:30AM - 9:30AM



C3. SO₂, NO_x, HG CONTROL TECH.

C3.1 NEW FINDINGS IN HG CONTROL THROUGH FGD & HYDROCLONE IMPROVEMENTS
Mark Pastore, VP Technology, EES, Inc.



C3.2 NOVEL TREATMENT SYSTEM FOR MERCURY AND SELENITE REMOVAL
Co-Chair - Vladimir Dozortsev, Development Manager Trace Metals, Aqua Metrology Systems, Ltd.



C3.3 TREATING TAIL GASES IN THE ENERGY SECTOR
Co-Chair - Scott Bayon, Director of Sales, Anguil Environmental Systems, Inc.



C3.4 APPROACH TO APPLY BATS TO CONTROL MERCURY EMISSION FOR ENERGY UTILIZATION
Eun-Song Lee, Student, Yonsei University; Hana Jang, Yong-Chil Seo, Jin-Ho Sung



C3.5 NOX REDUCING CONTROL IN 870MW PC BOILER WHICH HAS OPPOSITE BURNERS
Youngjun Ham, Supervisor, Korea South-East Power Co.; Inchan Park, Sooseok Kim

Tuesday | 10AM - 12PM



C4. DSI, ACI, ACTIVATED CARBON, SCR & SNCR

C4.1 USING MERCURE AND OTHER IMPROVEMENTS TO REDUCE PAC CONSUMPTION
Jon Norman, Manager-Sales/Technology, United Conveyor Corp; William Clark, GE Power



C4.2 SODIUM SORBENTS FOR HIGHER EFFICIENCY
Session Sponsor - Co-Chair - Michael Atwell, Sales Dvlpmnt Mngr, Solvay Chemicals, SOLVAir Solutions; Cornelia Cretiu



C4.3 PRE-SCR INJECTION OF HYDRATED LIME FOR PLANT OPERATIONAL BENEFITS
Eric Fairbairn, Product Manager - Flue Gas Treatment, Mississippi Lime Company



C4.4 EMISSION SOLUTIONS VIA DISPERSION AND DISTRIBUTION
Sean Dooley, Environment Solutions, Nol-Tec Systems, Inc.



C4.5 MERCURY CAPTURE IN THE WET SCRUBBER WITH WETJECT™
Domenic Contrino, Solutions Developer, Carbonxt; Regina Rodriguez, David Mazyck, Lindsey Costin

Tuesday | 1:00PM - 3:00PM



C5. CONTROL & OPTIMIZATION

C5.1 SO₂, HG, NO_x MODULAR PROCESSES FOR ADDRESSING SCRUBBER EMISSIONS
Brian Traylor, VP, Sales and Marketing, Semi-Bulk Systems, Inc.; Charles Alack



C5.2 EFFICIENCY/OPTIMIZATION FEEDBACK CONTROL IMPLEMENTATION USING PEMS
Richard Hovan, Director, EIS Business Development, Wunderlich-Malec; Mark McKee



C5.3 IMPROVING HG CONTROL WHILE REDUCING PAC INJECTION RATES
Brad Radl, Chief Technology Officer, Griffin Open System, LLC



C5.4 ESP PERFORMANCE IMPROVEMENTS BY REDESIGN OF ANTIQUATED COMPONENTS
Co-Chair - Robert Mastropietro, Sales, Nol-Tec / Lodge-Cottrell; Chris Roglieri



C5.5 BUSINESS INTELLIGENCE AND DATA LITERACY FOR UTILITY PROFESSIONALS
David Cox, Founder, FirmoGraphs, LLC

TRACK | D | POWER GEN & ENERGY SERVICES








Monday | 1:00PM - 3:00PM

D1. ENERGY POLICY & POWER PLANTS

-  **D1.1 THE ELECTRIC POWER INDUSTRY: TRANSFORMING THE FUTURE**
Jason Smith, Manager, Environmental Policy and External Affairs, Edison Electric Institute
-  **D1.2 DECARBONIZING POWER GENERATION BY USING HYDROGEN AS A GAS TURBINE FUEL**
Michael Welch, Industry Marketing Manager, Siemens Industrial Turbomachinery Ltd.
-  **D1.3 WHY ENERGY MASTER PLANNING?**
Kristen Parkhurst, Mechanical Engineer, Black & Veatch
-  **D1.4 UTILITIES SECURITY AND OT CHALLENGES OF TODAY AND TOMORROW**
Charlie Von Stetten, V.P. National Accounts, Unlimited Technology, Inc.; Oscar Herbosa Co-Presenter: Paulo Silva, Chief System Architect, Security Limits
-  **D1.5 OLD SMOKEY POWER - TRANSFORMING AGING POWER PLANTS**
Co-Chair - Peter Belmonte, Vice President, TRC; Ed Malley, Michael Keller
-  **D1.6 NYS REV - OUR CLEAN ENERGY FUTURE**
Lori Lybolt, Utility of Future Team, Consolidated Edison

Monday | 3:30PM - 6:00PM

D2. PLANT PERFORMANCE & MATERIAL HANDLING

-  **D2.1 COST AND PERFORMANCE BASELINE FOR FOSSIL ENERGY PLANTS: BIT. COAL/NG**
Co-Chair - Alexander Zoelle, Senior Chemical Engineer, Leidos; Mark Woods, KeyLogic; R.J. James, Travis Shultz, Timothy Fout, USDOE/NETL; Marc Turner, Leidos
-  **D2.2 MANAGING LOGISTICS FOR SCHEDULED OUTAGES IN POWER AND ENERGY**
Angela Eliacostas, President and Founder, AGT Global Logistics
-  **D2.3 GENERATOR MODEL VALIDATION USING NONTRADITIONAL GENERATOR MSRMNTS**
Tariq Rahman, Principal Engineer, SDG&E; Isaac West, Kamal Garg, Schweitzer Engineering Laboratories; Hassan Ghoudjehbakhlou, SDG&E
-  **D2.4 ADVANTAGES OF ANNUAL CRITICAL PUMP FIELD TESTING**
Kurt Schumann, President, ProPump Services, LLC; Bob Morgenstern
-  **D2.5 DEVELOPING BEST PRACTICES FOR LONG-TERM RELIABILITY**
Co-Chair - Johnny Howze, Plant Manager, Georgia Power
-  **D2.6 INTERNET OF THINGS - DEPLOYMENT FOR EXISTING POWER PLANTS**
Harry Sim, CEO, Cypress Envirosystems
-  **D2.7 HARDWARE UPGRADES FOR OPTIMIZING GT MAINTENANCE**
Michael Dolan, Chief Engineer, HYTORC Corporation

Tuesday | 7:30AM - 9:30AM





D3. ENERGY AND CYBERSECURITY

-  **D3.1 THE NATION'S FIRST CYBER-SECURE UTILITY MICROGRID AT AMEREN**
Emily LeJeune, Microgrid Applications Manager, S&C Electric Company
-  **D3.2 IDENTIFYING AND MITIGATING CYBER RISK**
Timothy Corbett, Founder and President, Cyber Security Service
-  **D3.3 IGNORANCE IS NO EXCUSE: COMBUSTION SYSTEMS STANDARDS AND CODES 101**
Dave Baxter, Senior Managing Director - Western US, Relevant Solutions
-  **D3.4 BRIDGING THE DIVIDE BETWEEN OT & IT SECURITY IN THE UTILITIES INDUSTRY**
Co-Chair - Amy Williams, Vice Pres. of Cyber Services, Unlimited Technology, Inc.
-  **D3.5 EFFECTIVE SECURITY AWARENESS TO PROTECT THE POWER GRID**
Jeffrey Struik, Principal Cyber Security Engineer / Owner, Cyber Strike Solutions, LLC
-  **D3.6 INFORMATION VS INTELLIGENCE-THE HUMAN FACTOR THAT MAKES IT ALL WORK**
Co-Chair - John Bryk, Cyber and Physical Threat Intelligence Analyst, DNG-ISAC

TRACK | D | POWER GEN & ENERGY SERVICES



Tuesday | 10:00AM - 12PM

D4. T&D, POWER PLANT TECHNOLOGIES

-  **D4.1 SUBSURFACE INVESTIGATION METHODOLOGY**
Co-Chair - Josh Dotson, Energy Division Manager, GPRS
-  **D4.2 LEAK DETECTION 101: THE HISTORY OF NATURAL GAS LEAK DETECTION**
Bryan Chambers, International Sales Manager, Heath Consultants Incorporated
-  **D4.3 CHALLENGES IN ENVIRONMENTAL PERMITTING**
Benjamin Becker, Environmental Compliance Specialist, Black & Veatch
-  **D4.4 MITIGATING IMPACTS TO BIRDS FROM TRANSMISSION LINES**
Tom Hamer, Senior Wildlife Ecologist, Hamer Environmental
-  **D4.5 ADAPTING TO A NEW WORLD: THE CHANGE FROM BASELOAD TO CYCLING OPS**
Co-Chair - Una Nowling, Technology Leader, Fuels and Reliability, Black & Veatch
-  **D4.6 REDUCE OR ELIMINATE DRY-ICE CLEANING WITH INFRASOUND TECHNOLOGY**
Michael Ware, President, SCR Solutions, LLC





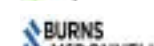


Tuesday | 1PM - 3PM

D5. ENERGY POLICY & POWER PLANT STRATEGIES

-  **D5.1 INCLUDING CUSTOMER NEEDS IN RATE DESIGN**
Co-Chair - Ted Kelly, Principal & Senior Project Manager, Burns & McDonnell
-  **D5.2 IS GREEN THE NEW BLACK... THE RISE AND FALL OF NATURAL GAS?**
Anthony Cirillo, Senior Project Director, AECOM
-  **D5.3 THE EFFECT OF ARCTIC BLASTS & GLOBAL WARMING SOLUTIONS ACT ON ISO-NE**
Stephen Slocumb, Principal, Epsilon Associates
-  **D5.4 CLIMATE ACTION AND ADAPTATION FOR THE CITY OF SAN ANTONIO**
Angela Rodriguez, Director, Climate & Sustainability, CPS Energy; Doug Melnick, City of San Antonio; Danielle Vitoff, Navigant Consulting, Inc.
-  **D5.5 THE BENEFITS OF GAS TURBINES AND ORC FOR DISTRIBUTED POWER GENERATION**
Michael Welch, Industry Mktg Mgr, Siemens Industrial; Jeremy Zamzow, Opero Energy
-  **D5.6 REAL TIME MONITORING OF NATURAL GAS COMPOSITION FOR POWER GENERATION**
Sylvie Bosch-Charpenay, Senior Applications Scientist, MKS Instruments, Inc.; Roberto Bosco

Tuesday | 3:30PM - 6:00PM

D6. PROJECT FINANCE & RISK MANAGEMENT

-  **D6.1 APPLICATION OF HAZARD AND OPERABILITY (HAZOP) ANALYSIS IN POWER PLANTS**
Session Sponsor - Co-Chair - Daniel Azukas, Project Associate, Sargent & Lundy; Jason Gerol, Ryan Krone
-  **D6.2 BUILDING A SMARTER TOMORROW: RESILIENT BUILDING, RESILIENT GRID**
Douglas Kot, Head of Section, Sustainable Buildings and Communities, DNV GL
-  **D6.3 ANALYTICAL RESULT AUTOMATION FOR PROACTIVE RISK MANAGEMENT**
Paul Banfer, Chief Technology Officer/Vice President, EISC
-  **D6.4 A COMPREHENSIVE APPROACH TO RISK MANAGEMENT**
Brian Payer, Strategic Operation Program Manager, Sphera
-  **D6.5 IMPACT OF SOCIAL MEDIA ON RISK COMMUNICATIONS**
Joab Ortiz, Public Involvement Manager, Burns and McDonnell; Adam Renz, Pattern Energy
-  **D6.6 STANDARDIZING RISK-BASED PROJECT MANAGEMENT - RISK ASSESSMENT PROFILER**
Carlos Mendizabal, President, ARETE Consulting Services, Inc.
-  **D6.7 VIRTUAL INSTALLATION TO REDUCE CONSTRUCTION RISK**
Lee Borthwick, Power Service Leader, Borton-Lawson

Monday | 1PM - 3PM

E1. WASTE TO ENERGY - CASE STUDIES



E1.1 GASIFICATION FOR WASTE WATER FACILITIES - PART 1: PROCESS BENEFITS
Bernard Brown, Director, Business Development West Coast, Aries Clean Energy; Sara Head, Yorke Eng., Jeff Snyder, Aries Clean Energy



E1.2 GASIFICATION FOR WASTE WATER FACILITIES - PART 2: PERMITTING CASE STUDY
Co-Chair - Sara Head, Principal Scientist, Yorke Engineering, LLC; Jeffrey Snyder, Aries Clean Energy



E1.3 PLASMA GASIFICATION OF WASTE IN THE U.S.: A CASE STUDY ON LARGE-SCALE
Richard Fish, President and CEO, AlterNRG Corp.



E1.4 FOOD WASTE TO RENEWABLE NATURAL GAS: TECHNICAL AND ECONOMIC OPTIONS
Co-Chair - Mark McDannel, Mgr, Energy Recovery Section, Los Angeles County Sanitation Districts



E1.5 RENEWABLE DIESEL - RISK FREE CARBON FOOTPRINT REDUCTION
Matt Leuck, Technical Manager, North America, Neste

Monday | 3:30PM - 5:30PM

E2. BIOGAS, BIOFUELS, BIODIESEL, ALGAE



E2.1 CATAWBA COUNTY ECOCOMPLEX, A STUDY OF INDUSTRIAL SYMBIOSIS EMPLOYING
Barry Edwards, Director of Utilities & Engineering, Catowba County



E2.2 BIOMASS TO DIESEL, A NEW WAVE IN RENEWABLE FUELS
Co-Chair - Roberta (Bobbie) Hurley, Associate Vice President, AECOM



E2.3 OXYGEN REFORMING OF TAR AND METHANE IN BIOMASS-DERIVED SYNGAS
Co-Chair - Dr. Bradley Damstedt, Development Specialist, Praxair; Larry Bohl



E2.4 CFD STUDY ON GASIFICATION CHARACTERISTICS OF BIO-OIL
Hang Seok Choi, Professor, Yonsei University; Myungkyu Choi, Jae Gyu Hwang, HoonChae Park

Tuesday | 7:30AM - 9:30AM

E3. LMOP - LANDFILLS & LANDFILL GAS



E3.1 CONVERSION OF BIOGAS RENEWABLE TO POWER TO RNG - A VALUE PROPOSITION
Jeffrey Pierce, Senior Project Director, SCS Energy / SCS Engineers



E3.2 BANKING 101: FINANCING INNOVATIVE BIOENERGY
Rob Ricciardi, Loan Officer, Live Oak Bank; Max Vernier



E3.3 COVAP: COGENERATION FOR INDUSTRIAL WASTE WATER EVAPORATION
Co-Chair - Ben Laurent, Senior Process Engineer, Heartland Water Technology, Inc.



E3.4 ENCAPSULATOR TECHNOLOGY USEFUL FOR ODOR MITIGATION IN LANDFILLS
Ron Lowrey, Regional Manager, Hazard Control Technologies, Inc.; Jeffrey Bonkoski



E3.5 SIOUX FALLS PIPELINE PROJECT - DELIVERING SUCCESS
Dustin Hansen, Landfill Manager, City of Sioux Falls



E3.6 SIOUX FALLS LANDFILL GAS TO POET ETHANOL
Rachel Kloos, Plant Manager, Poet; Dustin Hansen, Landfill Superintendent, City of Sioux Falls, SD

Tuesday | 10AM - 12PM

E4. RNG & BIOFUEL PROJECT STRATEGIES



E4.1 HOW TO MEET RULE 30 AND RULE 21 REQUIREMENTS FOR RENEWABLE NATURAL GAS
Dave Church, VP Operations, Guild Associates, Inc.



E4.2 RENEWABLE GAS PIPELINES: WHAT REGULATIONS APPLY AND HOW TO OPERATE
Co-Chair - Ryan Estabrook, President, Douglas Pipeline Company



E4.3 BIFURCATING A CENTRAL PLANT FOR REDUNDANCY AND RELIABILITY
Co-Chair - Jay Ehrfurth, Director - Power / Industrial, The Boldt Company



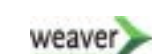
E4.4 SELF-PERPETUATING ENVIRONMENTAL CLEANUP SYSTEM
Peter Schubert, Director, Indiana University - Purdue University Indianapolis (IUPUI)



E4.5 PROSPECTS OF BIODIESEL USAGE AS AN ALTERNATIVE FUEL WITH LOW EMISSION FOR DIESEL ENGINES
Mohamed Aboabboud, Faculty of Marine Resources, El-Merghib University; Hesham Ibrahim, Al-Asmara Islamic University

Tuesday | 1PM - 3PM

E5. LANDFILL MANAGEMENT & COMPLIANCE



E5.1 RFS AND LCFS COMPLIANCE CONSIDERATIONS FOR LANDFILL GAS PROJECTS
Ashley Player, Senior Manager, Weaver



E5.2 AIR PERMITTING PROJECTS AT HIGH SULFUR LANDFILLS
Co-Chair - Wes Younger, Managing Consultant, Trinity Consultants



E5.3 VERIFICATION TESTS WITH EMISSION MEASUREMENTS OF AIR POLLUTANTS
Dr. Ha-Na Jang, Research Professor, Yonsei University; Yong-Chil Seo, Eun-Song Lee



E5.4 INNOVATION IN LFG GENERATION MODELING
John Carlton, Solid Waste Program Lead, HDR



E5.5 ENGINEERED BIOMASS PROJECTS: FINALLY TIME FOR THEIR DAY IN THE SUN?
Una Nowling, Technology Leader, Black & Veatch

Tuesday | 3:30PM - 5:30PM

TRACK | F | RENEWABLE ENERGY

Monday | 1PM - 3PM

F1. RENEWABLE ENERGY



F1.1 ECONOMIC AND SOCIAL ASPECTS OF OPERATING A COMMERCIAL WIND FARM
Hal Falls, Commercial Manager, Miaoli Wind Company



F1.2 LIFECYCLE OF A RENEWABLE ENERGY PROJECTS DEVELOPMENT
Rob Bates, Senior Project Scientist, NTH Consultants, Ltd.



F1.3 MAXIMUM GEOTHERMAL HEAT HARVESTING VIA DOWNHOLE LOOP CIRCULATION
Co-Chair - Robert Pilko, Director, Blade Energy Partners



F1.4 THE END OF BIG IRON: HOW WIND AND SOLAR BECAME CHEAPER THAN HYDRO
Robert McCullough, Principal, McCullough Research; Zachary Campbell, Louis Bengtson, Eric Shierman



F1.5 THE RENEWABLE ENERGY BUSINESS CASE FOR NERC COMPLIANCE
Mark Rabuano, Dir. of Regulatory Compliance, Grid Subject Matter Experts (GridSME)



F1.6 NEAR-TOTAL DECARBONIZATION: GLOBAL CLIMATE CHANGE INCLUDE H2, NH3 FUEL
Co-Chair - Bill Leighty, Director, The Leighty Foundation

Monday | 3:30PM - 6:00PM

F2. RENEWABLE ENERGY PROJECT DEVELOPMENT



F2.1 PREPARING FOR OFFSHORE WIND DEVELOPMENT IN THE U.S.
Co-Chair - William Stark, Vice President - Environmental Services, leidos



F2.2 DIRECT RENEWABLES OFFERINGS - COMMUNITY AND SOLAR
Drew Robinson, Manager, Renewables, Evergy (KCP&L / Westar Energy)



F2.3 FIELD TEST OF A POISON RESISTANT SOUR WATER GAS SHIFT CATALYST
Girish Srinivas, Vice President, TDA Research, Inc.; S. Schwab, S. Gebhard, B. Gebhard



F2.4 RAMPING PERFORMANCE OF A GIGAWATT HYDRO COMPLEX
Roger Clarke-Johnson, Western Region Manager, American Governor Company



F2.5 ARTILITY: AN ARTISTIC ILLUSTRATION OF RENEWABLE ENERGY AND UTILITY
Nick Hartrich, Outreach Manager, Puget Sound Energy



F2.6 KEY CONSIDERATIONS FOR VOLUNTARY RENEWABLE ENERGY PURCHASING IN THE U.S.
Michelle McGinty, Manager, Program Outreach, Center for Resource Solutions / Green-e



F2.7 RENEWABLE ENERGY IN THE UTILITY AND TRANSPORT SPACE
Rob Threlkeld, Global Manager-Renewable Energy, GM

Tuesday | 7:30AM - 9:30AM

F3. RE SMARTGRID & MICROGRID



F3.1 MICROGRIDS USING ONSITE RENEWABLES - RESILIENT SUSTAINABILITY
Co-Chair - Alden Hathaway, SVP Business Development, Sterling Energy Assets



F3.2 UTILITY-SCALE MICRO-GRID
Darr Hashempour, President / CEO, DH Green Energy, Inc.



F3.3 FLOW BATTERY TECHNOLOGY REVIEW
Jason Barmann, Electrical Engineer, Burns & McDonnell



F3.4 BEST PRACTICES AT UC SAN DIEGO'S MICROGRID W/ 150 ADVANCED EVCHARGERS
Byron Washom, Director, Strategic Energy Initiatives, UC San Diego



F3.5 REGULATIONS SUPPORTING FUEL CELL DEPLOYMENT IN CALIFORNIA
Clark Crawford, Director, Business Development, FuelCell Energy



F3.6 STAYING 100% OPERATIONAL DURING MULTI-DAY GRID OUTAGES WITH RESILIENT AND HIGHLY-EFFICIENT CHP
Gene Kogan, Director, DOE Western CHP TAP

TRACK | F | RENEWABLE ENERGY

Tuesday | 10AM - 12PM

F4. GHG & GREEN PROJECTS



F4.1 GAS TURBINE/SOLAR ENERGY HYBRIDS FOR REDUCED CO2 ENERGY PRODUCTION
Michael Welch, Industry Marketing Manager, Siemens Industrial Turbomachinery Ltd.



F4.2 RENEWABLE NATURAL GAS COMMODITY TRACKING
Benjamin Gerber, Executive Director, Midwest Renewable Energy Tracking System (M-RETS)



F4.3 LOW-COST FINANCING & TECHNOLOGY MATCHMAKING FOR GHG REDUCTIONS
Derrick Tang, Manager, Bay Area Air Quality Management District



F4.4 GHG AND ENVIRONMENTAL JUSTICE
Co-Chair - Mark Hauenstein, Partner, UC Won



F4.5 GROW MARKET SHARE WITH A PROVEN SUSTAINABILITY MESSAGING STRATEGY
Carolyn Parrs, CEO, Mind Over Markets



F4.6 ZERO WASTE WEEK AND REDUCING CARBON FOOTPRINT AT NYU
Dr. Bapanaiah Penugonda, Associate Professor / Group Practice Director, New York University, College of Dentistry; Megha Rao, Yunah Caroline Chun

Tuesday | 1PM - 3PM

F5. MICROGRID & ENERGY STORAGE



F5.1 CON EDISON CASE STUDY: HOW FUEL CELLS SOLVE DEMAND GROWTH CHALLENGES
Asim Hussain, Vice President, Marketing, Bloom Energy



F5.2 ENERGY STORAGE AS PART OF DER GROWTH: REGULATORY SNAPSHOT
Walker Wright, VP of Policy, ENGIE Storage



F5.3 PERCS: POWERED EMERGENCY RESPONSE CENTERS
Ted Flanigan, President, EcoMotion



F5.4 GAS TURBINES DRIVING FLEXIBLE MICROGRIDS
Session Sponsor - Co-Chair - Vivek Khanna, Manager Product Engineering, Solar Turbines



F5.5 THE ELECTRIC GRID AND THE BENEFITS OF MODULAR AND MICROGRID SYSTEMS
Nathan Goodman, Chief Executive Officer, Hamer Environmental



F5.6 FUEL CELL MICROGRID CASE STUDY: HOW THE CITY OF HARTFORD CREATED AN ELECTRIC POWER SAFE HAVEN
Asim Hussain, Vice President, Marketing, Bloom Energy

Tuesday | 3:30PM - 6:00PM

F6. PV, SOLAR & SUSTAINABLE RE



F6.1 SITING SOLAR - ZONING AND ORDINANCE CONSIDERATIONS
Nikki Payne, Principal Consultant - Impact Assessment & Planning, ERM



F6.2 SOLAR PV FEASIBILITY STUDY COMP: CLOSED ASH POND VS GREENFIELD SITE
Neal Kochis, Senior Project Manager, Haley & Aldrich; Steven Putrich, Lee Saunders



F6.3 SOLAR ENERGY ASSESSMENT OF PENN STATE CAMPUSES USING ARCGIS AND ATSV
Mesude Bayrakci-Boz, Assistant Teaching Professor of Engineering, Penn State Hazleton; Paulo Henrique Soares, Simon Miller



F6.4 PROMOTING SUSTAINABLE ENERGY INFRASTRUCTURE ON AN ACADEMIC INST.
Co-Chair - Jin Jo, Associate Professor, Illinois State University; Matt Aldeman



F6.5 FROM DATA TO INSIGHTS TO STORIES TO REACH YOUR AUDIENCE
Stephen Groner, President, S. Groner Associates, Inc.



F6.6 ELECTRICAL ENERGY MANAGEMENT IN HOUSEHOLD REFRIGERATORS AND FREEZERS
Co-Chair - Seyed Mojtaba Sadrameli, Professor, Tarbiat Modares University; L.Abdolmaleki, A. Pirvaram



F6.7 RENEWABLE ENERGY IS RENEWABLE EFFICIENCY
Shreepal Dangol, President, Grace Business Solution



F6.8 GROUND MOUNT RACK: GREEN IN/GREEN OUT WITH LIFT & SHIFT CAPABILITIES
Gregg Klang, Vice President of Business Development & Strategy, Nuance Energy Group

TRACK | G | O&M, DDD & EHS

Monday | 1PM - 3PM

G1. DECOMMISSIONING OF POWER PLANTS

G1.1 HOW TO TRANSFER ENVIRONMENTAL LIABILITIES DURING POWER PLANT CLOSURES
Randall Jostes, CEO, Environmental Liability Transfer, Inc.

G1.2 PLANNING DECOMM & DEMOLITION & IN-PLACE RETIREMENT OF POWER PLANTS
Jeffrey Pope, Manager, Facility Decommissioning & Demolition Svcs, Burns & McDonnell

G1.3 SOLVING NON-LIQUID PCB IMPEDIMENTS TO DECOMMISSIONING
Stephen Mitchell, Senior V.P., Weston Solutions, Inc.; Robert Appelt, J.D. Groesbeck

G1.4 FUNDAMENTALS OF DEMOLITION PROJECT MANAGEMENT OF POWER PLANTS
Co-Chair - Tim Barker, D4 Program Director, AECOM

G1.5 DECOMMISSIONING AND THE CHALLENGES WITH SYSTEM AND UTILITY RELOCATION
Andrew Schaaf, Project Manager, APTIM, Inc.; Gene Scott

G1.6 ESTIMATING YOUR D&D PROJECT
Joe Vendetti, VP of D&D, Remedial Construction Services LP (RECON)

Monday | 3:30PM - 6:00PM

G2. O&M, CHP, ENERGY MANAGEMENT

G2.1 OWNER'S ENGINEER, A VALUE ADDED PROPOSITION
Co-Chair - Rob Shepard, Vice President, IEM Energy Consultants, LLC.; Jeff Fassett

G2.2 MAXIMIZING SITE VALUE AND ULTIMATE FUTURE USE FOR POWER PLANT D&D SITE
Jeffrey Pope, Manager, Facility Decommissioning & Demolition Svcs, Burns & McDonnell

G2.3 REGAINING LOST MW THROUGH HIGH PRESSURE TURBINE FOAM CLEANING
Robert Betz, Career Engineer, Ameren; Chris Taylor

G2.4 ENERGY RESILIENCE IN THE BROADER BUSINESS ENVIRONMENT
Patrick Castro, Senior Commercial & Business Sales Manager, Centrica Business Solutions; Bill Kenworthy

G2.5 ESTIMATING BUILDING ENERGY USE
Steven French, Professor, Georgia Institute of Technology; William Drummond

G2.6 OPTIMIZE ENGINE CHP WITH WASTE HEAT
Rob Emrich, Director, ElectraTherm

G2.7 IMPACT OF CYCLING BETWEEN FULL & PART LOAD IN 2 300MW S/C STEAM UNITS
Co-Chair - Dr. Majed Toqan, CEO, Creative Power Solutions; Dr. Prabhat Neradi, Omar Shami, Salim Masharqa

Tuesday | 7:30AM - 9:30AM

G3. O&M, PLANT MANAGEMENT

G3.1 INTEGRATED WATER MANAGEMENT - RETHINKING YOUR PLANT WATER STRATEGY
Colleen Scholl, Professional Services Director Engineering, HDR; Christine Harris

G3.2 IMPROVING LOW LOAD OPERATION AND FLEXABILITY WITH IGNITION STABILITY
Dennis Barlow, Senior Product Manager, General Electric

G3.3 BEST PRACTICES IN OUTAGE MANAGEMENT
Co-Chair - Rob Shepard, Vice President, IEM Energy Consultants, LLC; Jeff Fassett

G3.4 EVALUATION OF AN ALT. TREATMENT FOR BOILER CHEMICAL CLEANING WASTE
Todd Whiting, VP Operations, Purestream Services; Brad Burns, EPRI

TRACK | G | O&M, DDD & EHS

Tuesday | 10AM - 12PM

G4. EHS, EMIS & SAFETY

G4.1 THE NEXT GENERATION OF STANDARDIZED CLOUD-BASED EHS SOLUTIONS
Co-Chair - Kyra Sharp, Director of Services, Perillon Software, Inc.; John Niemoller

G4.2 A TECHNOLOGY-DRIVEN, SYSTEMS APPROACH TO MANAGING EHS PROGRAMS
Joseph Tell, Owner, Tellevate, LLC

G4.3 KEY COMPONENTS FOR A ROBUST REFRIGERANT MANAGEMENT PROGRAM
Mark Harbin, Senior Consultant, Sphera

G4.4 APPLICATION OF SAFETY INTEGRITY LEVEL (SIL) ANALYSIS IN POWER PLANTS
Daniel Azukas, Project Associate, Sargent & Lundy; Ryan Krone, Jason Gerol

G4.5 ENABLING DISTRIBUTED ENVIRONMENTAL COMPLIANCE MANAGEMENT
Brent Allred, Program Manager, Northrop Grumman Technology Services

G4.6 INDUSTRY 4.0 & EHS: HOW IT AFFECTS UTILITIES & HOW TO PREPARE
James Jensen, Director of Customer Success, Enablon

Tuesday | 1PM - 3PM

G5. OPERATIONS & OPTIMIZATION

G5.1 ENERGY SAVINGS AND POWER FACTOR IMPROVEMENT WITH MEDIUM VOLTAGE VFD'S
Session Sponsor - Co-Chair - Manish Verma, Senior Sales Application Engineer, TMEIC

G5.2 IMPROVING MAINTENANCE, SAFETY AND ROI USING FUEL ADDITIVES
Joe Spahn, Business Development Manager, Imerys Performance Minerals; Dr. Adam Campen
Co-Presenter - Joseph Harris, Business Development Eng., Imerys Performance Materials

G5.3 CREATING VALUE: MANAGED CORPORATE ENVIRONMENTAL COMPLIANCE SERVICES
Co-Chair - David Shotts, Partner, ERM

G5.4 ADVANTAGES OF CONTRACTOR PARTNERSHIPS IN TODAY'S MARKET
Edwin David Bittner, Executive Director, Allied Power Services, LLC

G5.5 AFFORDABLE CLEAN ENERGY RULE: USEFUL LIFE AND HEAT RATE IMPROVEMENTS
Kyle Kropf, Engineering Manager, Black & Veatch

Tuesday | 3:30PM - 6:00PM

G6. EHS & RISK & ENERGY MANAGEMENT

G6.1 MANAGING CHANGE - FROM VISION TO REALITY
Co-Chair - Angela Johnson, Manager, DTE Energy

G6.2 PFAS 101: WHAT ARE THEY? HOW DID THEY GET HERE? WHAT ELSE IS COMING?
Ward Swanson, Vice President, Senior Environmental Scientist, Barr Engineering Co.

G6.3 A NEW SEASON - COPING WITH SMOKE FROM WILD FIRE IMPACTS ON OPEATIONS
Brian Berndt, Environmental Health and Safety Manager, Calpine

G6.4 SAFETY CONSIDERATIONS WHEN PLANNING FOR PLANT DECOMMISSIONING & DEM
Jeffrey Pope, Manager, Facility Decommissioning & Demolition Svcs, Burns & McDonnell

G6.5 INSULATED BUILDING TECHNOLOGY FOR RE-BUILDING FIRE-RAVAGED HOUSING
Co-Chair - Roderick Robinson, Director of Operations, Super Insulated Green Building Technologies, LLC

G6.6 DIGITAL SOLUTIONS FOR MUNICIPAL SERVICES, VIA AUGMENTED REALITY
Dimitris Agouridis, CEO, INTUS Group

G6.7 MAKING DUMB BUILDINGS SMART
David Roberts, VP of Marketing, Cypress Envirosystems; Harry Sim

TRACK | H | ELG, CCR, CCS & FGD

Monday | 1PM - 3PM

H1. CCR & ELG COMPLIANCE MGMT.

H1.1 "LIGHT AT THE END OF THE TUNNEL" - SOUND STRATEGIES FOR CM/CA

Session Sponsor - Co-Chair - Steven Putrich, VP - CCR & Industrial Waste Segment Lead, Haley & Aldrich

H1.2 WATER AND ASH COMPLIANCE: WHAT ELSE IS NEW?

Co-Chair - Jason Eichenberger, CCR Business Unit Manager, Burns & McDonnell

H1.3 CASE STUDY FOR CCR AND ELG COMPLIANCE AT A 4 UNIT 1370 MW STATION

Kelly Aita, Sales Engineer, United Conveyor Corporation; Gerald Long

H1.4 CREATIVE SOLUTION FOR PROCESS AND CONTACT WATER STORAGE

Steve Kiser, Vice President, Wood Environment & Infrastructure Solutions, Inc.

H1.5 ASSESSING CCR DATA QUALITY FROM PLANNING THROUGH USE

Rock Vitale, Technical Dir. - Chemistry/Principal, Environmental Standards; Jennifer Gable

H1.6 RECLAIMING AND RECYCLING COAL FLY ASH FOR BENEFICIAL USE

Bill Fedorka, Vice President, Engineering & Projects, The SEFA Group

Monday | 3:30PM - 5:30PM

H2. COAL ASH, CCR & FGD

H2.1 REGULATORY & POLICY DRIVERS CONTINUE TO IMPACT CCR RESOURCE MARKETS

Co-Chair - Danny Gray, ExecutiveVP - Government & Environmental Affairs, Charah Solutions, Inc.

H2.2 FROM ASH TO GRASS: DECOMMISSIONING TWO CCR SURFACE IMPOUNDMENTS

Cedric Ruhl, Associate Engineer, Wood

H2.3 THE EFFECTS OF FLY ASH QUALITY ON BRINE ENCAPSULATION

Clark Harrison, Director - Business Development, Purestream

H2.4 DEMONSTRATING "NO MIGRATION" ALTERNATIVE PERFORMANCE STANDARD FOR CCR

James Aiken, Vice President, Barr Engineering; Katy Lindstrom, Justin Soberaski

H2.5 CONSTRUCTION OF A MIDWEST UNDER-BOILER BOTTOM ASH SYSTEM

Ed Storrs, VP Operations, Bowen Engineering

H2.6 HOW ECONOMICS ON CARBON CAPTURE SYSTEMS ON COAL POWER PLANS IN USA CO

Harshit Chatur, Director, Finance , NRG Energy, Inc.

Tuesday | 7:30AM - 9:30AM

H3. CCR RULE

H3.1 COAL COMBUSTIONS RESIDUALS RULE - WHERE DOES A FACILITY GO FROM HERE?

Christine Harris, Power Generation Regulatory Compliance Practice Leader, HDR

H3.2 CONCEPTUAL SITE MODEL AND ITS BENEFITS FOR CLOSURE OF CCR UNITS

Martin Reif, Waste Facility Containment Practice Leader, Jacobs

H3.3 DEWATERING AND CONTAINMENT OF COAL ASH USING GEOTEXTILE TUBES

Co-Chair - Bryan Hamilton, Market Manager, TenCate Geosynthetics; Tom Stephens, Chris Timpson

H3.4 CASE STUDY - CCR RULE UNSTABLE AREA DEMONSTRATIONS

Gary Pendergrass, Principal, GeoEngineers, Inc.

H3.5 IMPACTS TO OPERATIONS AND CLOSURES DUE TO CCR RULE REGULATORY CHANGES

Jason Pokorny, Senior Project Manager, Haley & Aldrich

H3.6 BENCHMARKING THE CCR INDUSTRY - AN UPDATE FOR TOMORROW

Mark Rokoff, Vice President, AECOM; David Cox, FirmoGraphs

TRACK | H | ELG, CCR, CCS & FGD

Tuesday | 10AM - 12PM

H4. COAL ASH, CCR

H4.1 DESIGN CONSIDERATIONS FOR COAL ASH BASIN WATER TREATMENT

Charles McCloskey, Market Manager-Power Industry, Evoqua Water Technologies

H4.2 ENVIRONMENTALLY FRIENDLY ASH BENEFICIATION TECHNOLOGY

Michael Varner, Director - Business Development, SCB International; Chris Poling

H4.3 GROWING GEOSTRUCTURAL AND STABILIZATION NEEDS FOR ASH POND CLOSURE

Ryan Smith, Project Executive, Hayward Baker; Anita Perry, Southern Company; Anthony Sak, Hayward Baker

H4.4 THE ROLE OF WORK AREA QUANTIFICATION FOR CCR CONSTRUCTION PROGRAMS

Dale Evans, Senior Director of Technology & Strategy, Remedial Construction Services

H4.5 LEACHING REE FROM COAL FLY ASH USING ORGANIC ACIDS

Co-Chair - David Reed, Senior Scientist, Idaho National Laboratory; Yoshiko Fujita, INL; Jacob Fisher, BYU-Idaho, Dan Park, Yongqin Jiao; Livermore National Laboratory; Margaret Lencka, Andrew Anderko, OLI Systems; Lili Wu, Alexandra Navrotsky, University California-Davis

H4.6 FINDING BALANCE: HOW FUTURE USE GUIDES ASH POND CLOSURE STRATEGIES

Session Sponsor - Co-Chair - Eric Nelson, Vice President, SCS Engineers

Tuesday | 1PM - 3PM

H5. CCS & RARE EARTH ELEMENTS

H5.1 POLICY PARITY FOR CARBON CAPTURE

Co-Chair - Will Polen, Senior Director, USEA

H5.2 CCUS - UTILIZINE FTIR MEASUREMENT TECHNOLOGY TO CONTROL THE PROCESSES

Jim Cornish, Sales & Support Manager, Gasmet Technologies

H5.3 REGIONAL ECONOMIC IMPACTS OF CCUS

Joshua Stanislawski, Principal Process Engineer, Energy Systems Development, Energy & Environmental Research Center, University of North Dakota; Steven Schlasner, Bruce Folkedahl, Michael Swanson, Melanie Jensen

H5.4 DETERMINATION AND RECOVERY OF RARE EARTHS FROM COAL

Co-Chair - Evan Granite, Research Chemical Engineer, Task Leader, USDOE; Ken Ladwig, Elliot Roth

H5.5 USING AGRICULTURAL WASTES TO RECOVER REE FROM URBAN WASTES

David Reed, Senior Scientist, Idaho National Laboratory; Vicki Thompson, Yoshiko Fujita, INL; Yongqin Jiao, Lawrence Livermore National Laboratory; Jacob Fisher, BYU; Michael Crain-Zamora, University of Iowa, Katherine Scalzone, Montana State University

H5.6 CASE HISTORY-CCR LANDFILL COVER SYSTEM WATER DESIGN AND MANAGEMENT

Ken Daly, Principal Engineer, Wood

Tuesday | 3:30PM - 5:30PM

H6. FGD, ELG, CCR & CCS

H6.1 NEW MEMBRANE CONFIGURATION SAVES COSTS IN FGD TREATMENT FOR ELG/ ZLD

Co-Chair - Jon Liberzon, Vice President, BKT; Jonathan Chen

H6.2 REGULATIONS AND WATER USE: NAVIGATING THE BALANCING ACT

Dan Elliott, Staff Chemical Engineer, Burns and McDonnell; Katie Bland

H6.3 CONSIDERATIONS FOR CCR MANAGEMENT USING GEOTEXTILE CONTAINERS

Randy Wilcox, Technical Sales and Engineering Manager, WaterSolve, LLC; Gregg Lebster, WaterSolve; Bryan Hamilton, Tom Stephens, TenCate Geosynthetics Americas

H6.4 HOW TO MINIMIZE CCR LANDFILL LEACHATE AND CONTACT WATER MANAGEMENT

Co-Chair - Phil Gearing, Project Manager, SCS Engineers

H6.5 MEETING ZERO LIQUID DISCHARGE THROUGH REUSE AND CONCENTRATE MANAGEMENT

Katie McIntyre, Chemical Engineer, EES

TRACK | I | WATER & 316(b) COOLING TOWER

Monday | 1PM - 3PM

11. WASTEWATER, GROUND WATER, REMEDIATION, ELG, FGD



11.1 ULTRAFILTRATION OF FGD WASTEWATER FOR ELG COMPLIANCE

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



11.2 COMPLIANCE UNDER THE NEW(ER) ELG RULE

Patricia Scroggin, Regional Practice Manager - Energy, Burns & McDonnell



11.3 GROUNDWATER MANAGEMENT AND REMEDIATION USING SLURRY WALL SYSTEMS

Dale Evans, Senior Director of Technology & Strategy, Remedial Construction Services; Karin Stewart Harmon



11.4 MONITORING, PREDICTING, PREVENTING AND CONTROLLING ALGAL BLOOMS

Session Sponsor - Co-Chair - Lisa Brand, CTO, LG Sonic



11.5 PROGRESSES AND PERFORMANCES IN DISTILLERY STILLAGE TREATMENT

Gefachew Gebreeyessus, Lecturer, Kotebe Metropolitan University

Monday | 3:30PM - 5:30PM

12. 316(b), ELG, FGD, WASTEWATER



12.1 THE WATER-ENERGY NEXUS: PARTNERING WITH DOE/NETL

Thomas Feeley, Strategic Partnership Manager, National Energy Technology Laboratory



12.2 316(B) COMPLIANCE: PLANNING AND IMPLEMENTING ENGINEERING SOLUTIONS

Dallen Kroger, Engineer, Burns & McDonnell; Christopher Wiggins



12.3 FGD WASTE WATER TREATMENT - PRETREATMENT + BRINE CONCENTRATION

Lanny Weimer, Product Management, Suez Water Technologies and Solutions



12.4 LESSONS LEARNED IN EXECUTION OF POWER PLANT WASTEWATER TREATMENT PROJECTS

Co-Chair - Dennis Fink, Water for Power Lead, Jacobs (formerly CH2M); Thomas Higgins, Laura Reid



12.5 HG, AS AND SE DETERMINATION BY PHOTOCHEMICAL VAPOUR GENERATION - AFS

Dr. Warren Corns, Research and Technical Support Manager, PS Analytical, Shaun Lancaster, Eva Krupp, Joerg Feldmann

Tuesday | 7:30AM - 9:30AM

13. 316(b), COOLING TOWER



13.1 COOLING TOWER RETROFIT FOR 316(B): CHALLENGES THAT AFFECT COST

Andrew Cerra, Mechanical Engineer, Burns & McDonnell; Christopher Wiggins



13.2 A STUDY OF 316(B) IMPLEMENTATION AT ALABAMA POWER PLANT BARRY

Mark Hussey, National Account Manager, Intralox



13.3 EPA 316(B) IMPACT ON CIRCULATING WATER PUMPS AND MOTORS

Kurt Schumann, President, ProPump Services, LLC.



13.4 IMPINGEMENT TECHNOLOGY PERFORMANCE OPTIMIZATION STUDY UNDER BTA

Kurtis Schlicht, Technical Director, ERM; Bill Stephens



13.5 THERMAL VARIANCE DEMONSTRATION STUDY ON THE MISSISSIPPI RIVER

Co-Chair - Brian O'Neill, Senior Aquatic Ecologist, Burns & McDonnell

TRACK | I | WATER & 316(b) COOLING TOWER

Tuesday | 10AM - 12PM

14. WATER SUPPLY & SECURITY



14.1 HOW TO ENSURE WATER SUPPLY SECURITY

Co-Chair - Aaron Morrison, President and CEO, Chaoticwaters, Inc.



14.2 A SUSTAINABLE APPROACH TO IMPLEMENTING DESALINATION FACILITIES

Ted Schilling, West Region Design & Engineering Manager, Arcadis



14.3 SUSTAINABLE ALTERNATIVES TO POWER PLANT MAKE-UP WATER: USING TREATED MUNICIPAL WATER

Bridget Finnegan, Process Specialist, Veolia



14.4 WATER RISK MANAGEMENT - FROM RISK TO OPPORTUNITY

Co-Chair - Krystal Perez, Global Technology Lead - Water for Power, Jacobs; Joe Rozza, Jameson Morrell, Dennis Fink



14.5 ABQAIQ PLANTS WATER CONSERVATION JOURNEY

Mohammed Almugahwi, Process Engineer, Saudi Aramco

Tuesday | 1PM - 3PM

15. WASTEWATER & WATER TREATMENT



15.1 PLANT BOWEN LONG-TERM MEMBRANE PERFORMANCE USING UV FOR DECHLORINATION

Co-Chair - Dennis Bitter, Sales Director, Atlantium Technologies



15.2 ESTIMATED BIOLOGICAL EFFICACY OF SCREENING TECHNOLOGIES AND SURVIVAL

Co-Chair - Christopher Wiggins, Certified Ecologist, Burns & McDonnell



15.3 NEW PINCH VALVE TECHNOLOGY

John Chapman, Nuclear Engineering Director, Continuous Engineering Solutions



15.4 REDUCING CORRECTIVE ACTIONS THROUGH MODELING

Ernie Stine, Scientist V, APTIM; Vikas Tandon, James Teo



15.5 WATER FILTRATION WITH FLOWROX

Mark Galimberti, Sales Engineer Representative, Flowrox

Tuesday | 3:30PM - 5:30PM

16. 316(b), ELG & WASTEWATER



16.1 UPDATE OF WATER-RELATED ANALYSIS WORK AT NETL

Co-Chair - Eric Grol, Energy Analyst, USDOE/NETL; Marc Turner, Leidos; Eric Lewis, Deloitte



16.2 316(B) DO'S AND DON'T'S

Greg Seegert, Chief Ichthyologist, EA Engineering, Science & Technology



16.3 PARTNERING WITH BIG INDUSTRY TO REDUCE NUTRIENT POLLUTION

Sarah Gilstrap, Senior Environmental Scientist, Burns and McDonnell



16.4 DETERMINATION OF SELENIUM IN FGD WASTEWATER BY TRIPLE QUAD ICP-MS

Chaoyang Huang, Senior Chemist, Southern Research Institute; Young Chul Choi

Monday | 1PM - 3PM

J1. TE, ELECTRIC UTILITIES & EV CHARGING

J1.1 CLEAN ENERGY PATHWAY EFFORTS IN THE PORT OF LONG BEACH

Damon Hannaman, Sr. Advisor, Key Accounts, Southern California Edison

J1.2 ELECTRIC COMPANIES ACCELERATING TRANSPORTATION ELECTRIFICATION

Co-Chair - Kellen Scheffter, Sr. Manager, Sustainable Technology, Edison Electric Institute

J1.4 REGULATORY CHALLENGES IN GUAM'S POWER GENERATION

Co-Chair - Dr. Filomena Cantoria, Commissioner, Guam Public Utilities Commission

J1.5 DESIGNING SUCCESSFUL TRANSPORT ELECTRIFICATION PROGRAMS FOR UTILITIES

Andrew Dillon, Senior Principal, EV & DER Solutions, West Monroe Partners

J1.6 FLEET CHARGING INFRASTRUCTURE TO OPTIMIZE TOTAL COST OF OPERATIONS

Terry O'Day, Chief Strategy Officer, Executive Vice President, innogy eMobility US

Monday | 3:30PM - 6:00PM

J2. ADVANCE CLEAN TRUCKS - AFV & ZEV & FLEETS

J2.1 THE ELECTRIFICATION OF COMMERCIAL TRANSPORTATION

Co-Chair - Jim Castelaz, Founder and CEO, Motiv Power Systems

J2.2 VIABILITY OF ELECTRIC VEHICLES IN THE LOGISTIC/TRANSPORTATION INDUSTRY

Heidi Rous, Director, ESA; Jeff Caton

J2.3 IN-WHEEL ELECTRIFIED HUBS FOR TRAILERS AND TRUCKS

Caleb Lander, Product Manager - Electrification, ConMet

J2.4 MANAGING WITH ELECTRICITY

Co-Chair - Kenneth Williams, Fleet Asset Superintendent, City of Kansas City / Aviation Department

J2.5 BRIDGING THE GAP: A RADICAL NEW VISION FOR ELECTRIC TRUCKING

Tom Bartley, Founder / VP Sales and Marketing, Proensis LLC

J2.6 FLEET ELECTRIFICATION-LIGHT, MEDIUM, AND HEAVY DUTY EVS IN FLEETS

Raquel Soat, Research Analyst, Navigant Consulting inc

J2.7 TROPUS ABLE - HOW DOWNSIZING TO AN ECUV CAN SAVE THOUSANDS

Jeff Esfeld, Director National Fleet Sales & Business Development, Tropus Technologies, Inc.

Tuesday | 7:30AM - 9:30AM

J3. EV, PHEV, HYBRID, FLEET SUSTAINABILITY

J3.1 PRELIMINARY ROUTING FOR A NATIONAL LABORATORY COMMUTING PROGRAM

Amy Moore, Transportation Planning Engineer, Oak Ridge National Laboratory

J3.2 LOCAL GOVERNMENT'S ROLE IN INCREASING EV ADOPTION IN SAN FRANCISCO BAY

Co-Chair - Rebecca Fisher, Staff Specialist, Bay Area Air Quality Management District

J3.3 THE ELECTRIC VEHICLE DISCOVERY CENTRE - EV MARKET TRANSFORMATION

Cara Clairman, President and CEO, Plug 'n Drive; Davorka Cvilkovic

J3.4 BIGGER MARKET THAN ELEC GRID: WIND + SOLAR HYDROGEN TRANSPORT + CHP FUEL

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

J3.5 FUTURE OF ELECTRIC & HYBRID-DRIVE SYSTEMS IN COMMERCIAL & OFF ROAD EQUIP.

Marilyn Tarbet, Director, New Business Development, Power Systems Research

J3.6 TOOLS AND TECHNIQUES TO SWITCH TO ELECTRIC VEHICLES RISK FREE

Alex Baker, CEO, CleanCar

Tuesday | 10AM - 12PM

J4. ULTRA CLEAN LD/MD/HD

J4.1 A MACROECONOMIC ASSESSMENT OF TRANSPORTATION ELECTRIFICATION

Edward Carr, Senior Research Analyst, Energy and Environmental Research Associates; James Winebrake, Erin Green

J4.2 DATA INSIGHTS: STAYING COMPETITIVE IN A CONNECTED VEHICLE WORLD

Gary Schmidt, Vice President of Business Solutions, Zonar

J4.3 HIGH EFFICIENCY, LOW EMISSIONS DRIVE MARKET ADOPTION OF THE OP ENGINE

Jerome Payne, Chief Operating Officer, Achates Power

J4.4 RETROFITTING CLASS 2 HYBRID VEHICLES WITH ELECTROCHEMICAL CAPACITOR

Toshihiko Furukawa, Senior Manager / Global Engineering, United Chemi-Con, Inc.

J4.5 UPCOMING CALIFORNIA ZEV REGULATIONS FOR HEAVY-DUTY VEHICLES

Craig Duehring, Air Resources Supervisor, California Air Resources Board (CARB); Paul Ameja

J4.6 CNG HYBRID ELECTRIC SUPER TRUCK DESIGN

Co-Chair - James Burns, CSO, Transportation Power, Inc.; Dr. Paul Scott

Tuesday | 1PM - 3PM

J5. UTILITY FLEET

J5.1 FIVE LESSONS FROM A DECADE OF EV FLEET MANAGEMENT

Co-Chair - Matt Stevens, VP, Electric Vehicles, Geotab

J5.2 CHARGE THE NORTH: CHARACTERIZING ELECTRIC VEHICLE CHARGING PROFILES

Eric Mallia, General Manager, FleetCarma

J5.3 ELECTRIC FLEETS: MOVING BEYOND PILOTS FOR THE REAL BENEFITS

Co-Chair - Paul Stith, Director of Strategy & Innovation, Black & Veatch

J5.4 THE ELECTRIFICATION CHECKLIST: MAKING THE RIGHT XEV DECISIONS

Jeremy Twomey, Regional Sales Manager, XL - The Fleet Electrification

J5.5 LARGE FLEET ADOPTION OF ELECTRIC PROPULSION

Michael McDonald, Sr. Director of Sustainability & Gov't Affairs, United Parcel Service (UPS)

J5.6 THE COMMERCIALIZATION OF HEAVY DUTY CLASS 6-8 TRUCKS AND BUSES

Joshua Goldman, VP Sales and Marketing, TransPower

J5.7 EV OPPORTUNITIES IN ROBUST, HIGH CAPACITY, PEOPLE MOVER APPLICATIONS

Newton Montano, VP and GM, Trams International

Tuesday | 3:30PM - 5:30PM

J6. CARB REGS, EV CHARGING PROJECTS

J6.1 VW FUNDING OPPORTUNITIES

Eric Brown, Air Pollution Specialist, California Air Resources Board (CARB); Patrick Chen

J6.2 DIVIDEND - ACCOUNT PARKING: FEASIBLE & ENFORCEABLE MITIGATION

Co-Chair - Michael Bullock, Transportation Committee Chair, Sierra Club, Evolved Wireless, Inc.

J6.3 HYBRID AND ZERO-EMISSION TRUCK AND BUS VOUCHER INCENTIVE PROJECT - HVIP

Patrick Chen, Air Pollution Specialist, California Air Resources Board

J6.4 A CASE STUDY IN COLLABORATIVE VEHICLE ELECTRIFICATION

James DeGrood, Deputy Director, Pima Association of Governments

J6.5 A CASE STUDY IN COLLABORATIVE VEHICLE ELECTRIFICATION

James DeGrood, Deputy Director, Pima Association of Governments, Regional Transportation Authority RPC

TRACK | K | BATTERY, STORAGE & CHARGING

Monday | 1PM - 3PM

K1. BATTERY, ENERGY STORAGE SYSTEMS

K1.1 BATTERY SELECTION BASED UPON CURRENT CAPACITY RATINGS IS OUTDATED

Co-Chair - Jeremy Cordray, Director, Original Equipment, NorthStar Battery

K1.2 METHODS TO MEASURE AND IMPROVE BATTERY STORAGE SYSTEMS PERFORMANCE

Khalid Rahman, Electrical Engineer, Commonwealth Associates, Inc.

K1.3 PRACTICAL BENEFITS AND LIMITATIONS OF ENERGY STORAGE

Carl Salas, Founding Principal, Salas O'Brien

K1.4 THE BATTERY PUZZLE - THE PATH TO ELECTRIFICATION FOR HEAVY-DUTY

Mike Terzo, CEO & CTO, Terzo Power Systems, LLC

K1.5 ENCAPSULATOR TECHNOLOGY FOR BATTERY AND STORAGE SYSTEM PROTECTION

Jeffrey Bonkoski, Area Manager, Encapsulator Technology Specialist, Hazard Control Technologies; Ron Lowrey

K1.6 GETTING AHEAD OF THE EV BOOM WITH INCENTIVIZED SMART-CHARGING

Marc Monbouquette, Sr. Manager, Regulatory and Government Affairs, eMotorWerks

Monday | 3:30PM - 5:30PM

K2. EV FAST CHARGING & INFRASTRUCTURE

K2.1 HOW CUSTOMER EXPERIENCE IMPACTS UTILITY EV CHARGING PROGRAM SUCCESS

Co-Chair - April Bolduc, President, S Curve Strategies

K2.2 HOW TO STREAMLINE YOUR UTILITY EV CHARGING INSTALLATION PROCESS

Nicole Alarcon, VP of Program Development, C2 Group; Luis Alarcon

K2.3 FAST DC CHARGING WITH MINIMUM GRID UPGRADE

Heesoo Lee, General Manager, Energy Systems, AVM

K2.4 THE NEED FOR SPEED

Steve Bloch, Western Regional Vice President, ABB

K2.5 CCS AS THE GLOBAL STANDARD FOR CHARGING BATTERY POWERED EVS

Oleg Logvinov, Spokesperson, CharIN e.V. NA

K2.6 THE UTILITIES POSITIVE IMPACT ON THE EV MARKET

Brittany Syz, Director of Clean Transportation, SDG&E

K2.7 EV TRANSPORTATION CORRIDORS - ASSESSING EV FLEET INFRASTRUCTURE

Andrew Dillon, Senior Principal, EV & DER Solutions, West Monroe Partners

Tuesday | 7:30AM - 9:30AM

K3. RESIDENTIAL & COMMERCIAL CHARGING

K3.1 ELECTRIFYING TRANSPORTATION: HOW ELECTRIC UTILITIES ARE LEADING CLEAN MOBILITY

Co-Chair - Dean Siegrist, Associate Vice President, Black & Veatch; Maryline Daviaud Lewett, Black & Veatch

K3.2 ELECTRIC FLEETS: UNDERSTANDING INFRASTRUCTURE OPTIONS

Co-Chair - Kim Okafor, Trillium EV Business Line Leader, Trillium

K3.3 A SCALABLE APPROACH TO DEPLOYMENT OF THE EV CHARGING INFRASTRUCTURE

Oleg Logvinov, President and CEO, IoTecha

K3.4 REDUCING YOUR CHALLENGES FOR EV INFRASTRUCTURE INVESTMENT

Patty DiNapoli, Marketing Director, Cyber Switching

K3.5 DESIGNING INCENTIVES TO ALIGN EV CHARGING WITH GRID RELIABILITY OBJECT

Matt Owens, Business Development Executive, West Monroe Partners

K3.6 USING NATURAL GAS AND PROPANE FOR CHARGING EVS

Arthur Sams, CEO, Polar Power

TRACK | K | BATTERY, STORAGE & CHARGING

Tuesday | 10AM - 12PM

K4. BATTERY, STORAGE & CHARGING SYSTEMS

K4.1 THE SLOW FAST CHARGE: WHAT YOU GET IS ALL YOU NEED

Scott McCalmont, Principal Engineer, Paired Power, Inc.

K4.2 EV CHARGING AND THE VEHICLE PURCHASE PROCESS: LESSONS LEARNED

Co-Chair - Dr. Ryan Bodanyi, Senior Specialist for EV Program Transparency & Evaluation, Center for Sustainable Energy (CSE); Brett Williams

K4.3 INTEGRATING ELECTRIC VEHICLE CHARGING INTO MICROGRID OPERATION

Azhar Ul Haq, Assistant Professor, National University of Sciences & Technology; Saifullah Awan, Aqib Perwaiz

K4.4 EV CHARGING INCENTIVES USING LOW CARBON FUEL CREDITS AND BLOCKCHAIN

Andrew Dillon, Senior Principal, West Monroe Partners; Kayvon Hosseini

K4.5 BATTERY INNOVATIONS, E-MOBILITY & SMART CITIES

Cameron Peebles, Scientist, Wildcat Discovery Technologies; Dee Strand

Tuesday | 1PM - 3:00 PM

K5. FUEL CELLS, LI-ION, H2, BATTERIES

K5.1 THE CALIFORNIA FUEL CELL REVOLUTION

Keith Malone, Public Affairs, California Fuel Cell Partnership; Bill Elrick

K5.2 FUEL CELL & HYDROGEN - A COMPELLING VALUE PROPOSITION FOR ZERO EMISSION

Alan Mace, Product Development/Market Specialist, Ballard Power Systems, Inc.

K5.3 CARBON NEUTRAL LIQUID FUELS FOR TRANSPORTATION / ENERGY STORAGE

Madhav Acharya, T2M Advisor, ARPA-E

K5.4 HYDROGEN FREIGHT IN CALIFORNIA: FUEL CELL TRUCKS IN SAN PEDRO PORTS

Co-Chair - Cory Shumaker, Development Specialist, California Hydrogen Business Council

K5.5 A FAIL-SAFE SOLUTION FOR THE SAFETY OF BATTERIES

XiaoXiong Luo, Research Lead, Pyrophobic Systems, Ltd.

K5.6 FUEL CELL ELECTRIC TRUCKS/VEHICLES POWERED BY RENEWABLE HYDROGEN FUEL

Rob Del Core, Managing Director, Hydrogenics USA, Inc.

Tuesday | 3:30 PM - 5:30 PM

K6. EV, BATTERY, MANUFACTURER & SUPPLY CHAIN

K6.1 A CHALLENGE OF RELIABLE CIRCUIT PROTECTION IN AUTOMOTIVE APPLICATIONS

Co-Chair - Liwu Wang, Director of Business Development, AEM Components (USA), Inc.

K6.2 IMPLEMENTING MOTOR CIRCUIT ANALYSIS DE-ENERGIZED TESTING

William Kruger, Technical & Training Manager, ALL-TEST Pro, LLC

K6.3 SAFE CABLE MANAGEMENT

Phil Ramos, Jr., Founder and CEO, Philatron Wire and Cable

K6.4 LEVERAGING LOCAL SUPPORT WITHIN A GLOBAL SUPPLY CHAIN

Co-Chair - Wesley Brandon, President, CTEMS, Engineering and Manufacturing Services

K6.5 ROLLING ENERGY STORAGE- ELECTRIC VEHICLES * CHARGING

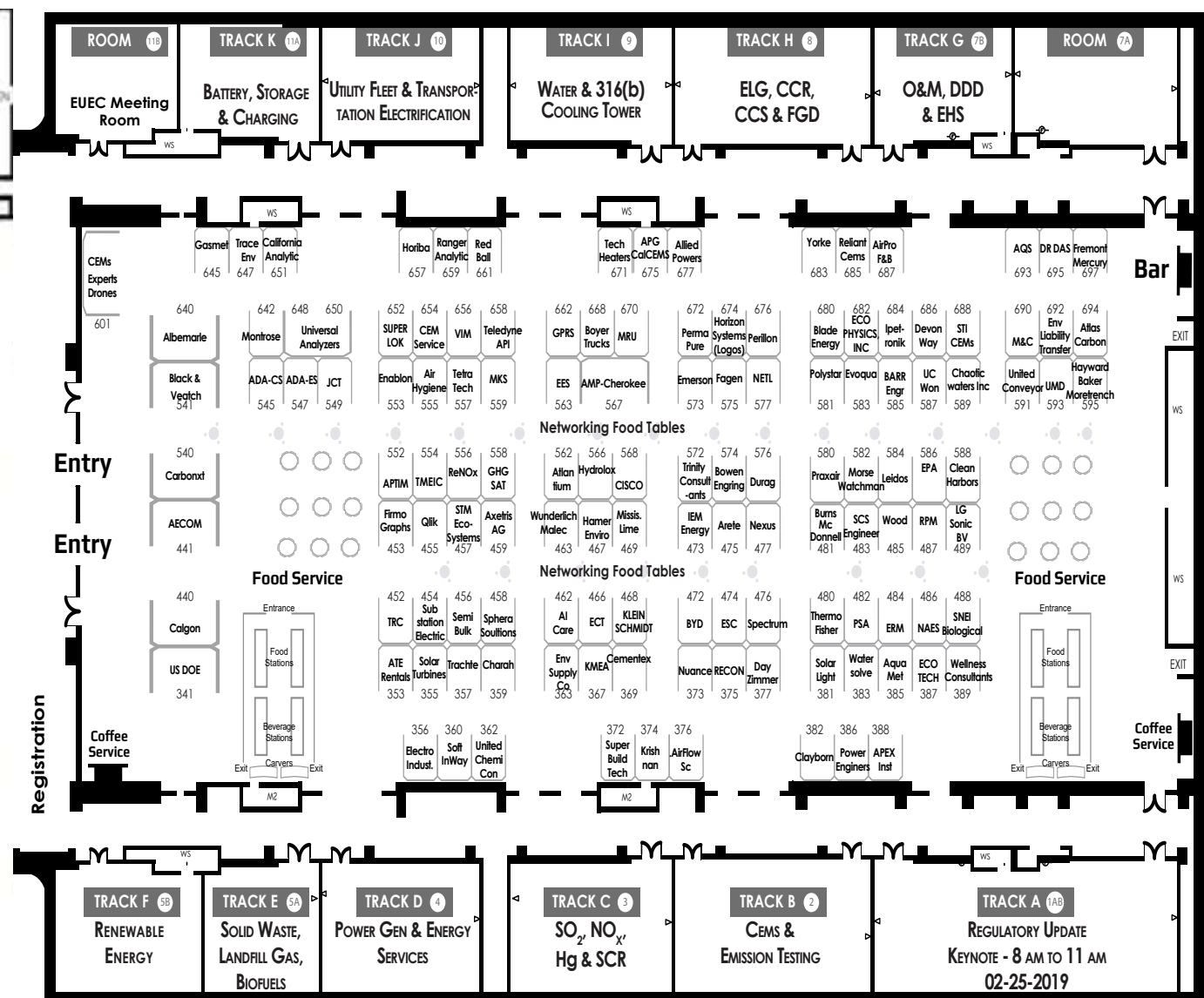
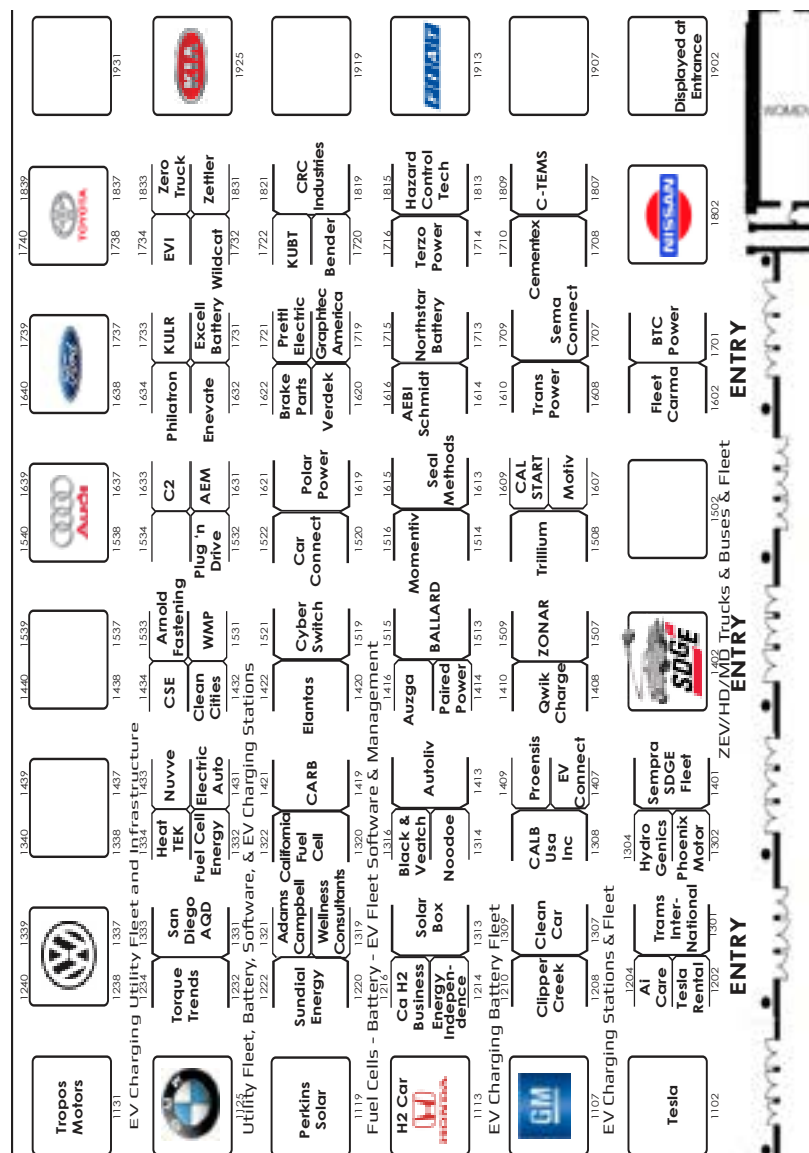
Kevin Wood, Clean Transportation Specialist, Center for Sustainable Energy (CSE)

K6.6 ALIGNING INTELLECTUAL PROPERTY STRATEGIES WITH R&D AND COMMERCIAL GOAL

Daniel Abraham, Vice President, MPEG LA

TE-EXPO IN SAILS PAVILION

EUEC2019 IN BALLROOM



2-DAY EXHIBIT SCHEDULE

2-DAY EXHIBIT SHOW HOURS

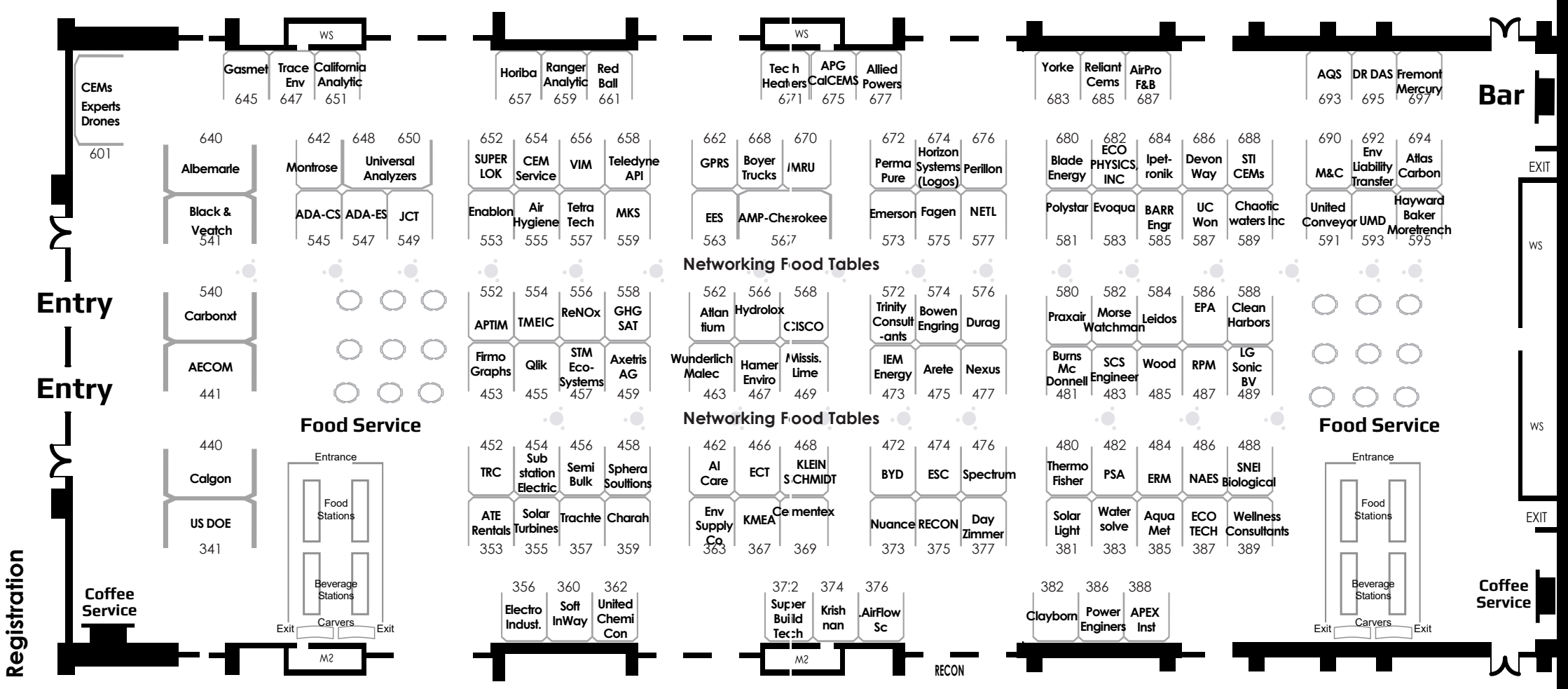
Sun. Setup 12 pm to 6 pm
Mon. Feb 25 12 pm to 7 pm
Tues. Feb 26 9 am to 7 pm
Wed. Feb 27 8 am Tear Down

NETWORK RECEPTIONS

AM Breaks	9:30 am to 10 am
Lunches	12 pm to 1 pm
PM Breaks	3 pm to 3:30 pm
Receptions	5 pm to 7 pm

WARNING FAKE AGENCIES

**Do NOT accept any phone or email solicitations
for Hotels or Mailing lists**



545 ADA Carbon Solutions
 547 ADA ES
 353 Advanced Test Equipment
 441 AECOM, Inc.
 462 AI Care
 555 Air Hygiene
 693 Air Quality Services
 376 Airflow Sciences
 687 AirPro Fan & Blower
 640 Albemarle
 677 Allied Powers
 387 American Ecotech
 567 AMP-Cherokee
 388 Apex Instruments
 675 APG Analyzer Systems
 552 APTIM
 385 Aqua Metrology
 475 Arete
 562 Atlantium
 694 Atlas Carbon
 459 Axetris AG
 585 Barr Engineering
 541 Black & Veatch
 680 Blade Energy
 574 Bowen
 668 Boyer Trucks
 481 Burns & McDonnell
 472 BYD
 440 Calgon Carbon
 651 California Analytical Inst.
 540 Carbonxt, Inc.
 654 CEM Service Group, Inc.
 369 Cementex

601 CEMS Experts
 589 Chaoticwaters, Inc.
 359 Charah Solutions, Inc.
 568 CISO
 382 Clayborn Lab
 588 Clean Harbors
 377 Day & Zimmerman
 695 DR DAS LTD
 576 Durag
 682 ECO PHYSICS, INC.
 466 ECT
 356 Electro Industries/GaugeTech
 573 Emerson
 553 Enablon
 563 Environ Energy Svcs. (EES)
 692 Environ Liability Transfer
 363 Environ Supply Co.
 474 Environ Systems Corp (ESC)
 586 EPA
 484 ERM
 583 Evoqua Water Tech
 575 Fagen
 453 FirmoGraphs
 697 Fremont Mercury Services
 645 Gasmet
 558 GHGSat
 662 GPRS
 467 Hamer Environmental
 595 Hayward Baker & Moretrench
 657 Horiba
 674 Horizon Systems/LLC LOGOSGRUP
 566 Hydrolox
 473 IEM Energy Consultants LLC

684 Ipetronik
 549 JCT
 468 Kleinschmidt
 367 KMEA
 374 Krishnan & Associates
 584 Leidos
 489 LG Sonic BV
 690 M & C Tech Group NA
 469 Mississippi Lime Co
 559 MKS Instruments
 642 Montrose Environmental
 582 Morse Watchman
 670 MRU Instruments
 486 NAES
 577 NETL
 477 Nexus
 373 Nuance
 676 Perillon
 672 Perma Pure
 581 Polystar Containment
 386 Power Engineers
 580 Praxair
 482 PS Analytical
 455 Qlik
 659 Ranger Analytic
 375 Recon
 661 Red Ball Technical Gas
 685 Reliant CEM Svcs
 556 ReNOx
 487 RPM Solutions
 483 SCS Engineers
 456 Semi-Bulk Systems Inc
 488 SNEI Biological

360 Softinway
 381 Solar Light for Africa
 355 Solar Turbines
 476 Spectrum
 458 Sphera Solutions
 688 STI CEMS
 457 STM Ecosystems
 454 Substation Electric
 372 Suoer Insulated Build Tech
 652 Superlok USA
 671 Technical Heaters, Inc.
 658 Teledyne API
 557 Tetra Tech, Inc.
 480 ThermoFisher
 554 TMEIC
 647 Trace Environmental
 357 Trachte LLC
 452 TRC Companies, Inc.
 572 Trinity Consultants
 587 RenewGeo (UC-Won)
 341 U.S. DOE, O. of Fossil Ener
 362 United Chmi-Con
 591 United Conveyor Corp.
 648 Universal Analyzers
 593 University of Maryland
 656 VIM
 383 WaterSolve
 389 Wellness Consultants
 485 Wood
 463 Wunderlich-Malec
 683 Yorke Engineering

545	ADA Carbon Solutions	549	JCT
547	ADA ES	468	Kleinschmidt
353	Advanced Test Equipment	367	KMEA
441	AECOM, Inc.	374	Krishnan & Associates
462	AI Care	584	Leidos
555	Air Hygiene	489	LG Sonic BV
693	Air Quality Services	690	M & C Tech Group NA
376	Airflow Sciences	469	Mississippi Lime Co
687	AirPro Fan & Blower	559	MKS Instruments
640	Albemarle	642	Montrose Environmental
677	Allied Powers	582	Morse Watchman
387	American Ecotech	670	MRU Instruments
567	AMP-Cherokee	486	NAES
388	Apex Instruments	577	NETL
675	APG Analyzer Systems	477	Nexus
552	APTIM	373	Nuance
385	Aqua Metrology	676	Perillon
475	Arete	672	Perma Pure
562	Atlantium	581	Polystar Containment
694	Atlas Carbon	386	Power Engineers
459	Axetris AG	580	Praxair
585	Barr Engineering	482	PS Analytical
541	Black & Veatch	455	Qlik
680	Blade Energy	659	Ranger Analytic
574	Bowen	375	Recon
668	Boyer Trucks	661	Red Ball Technical Gas
481	Burns & McDonnell	685	Reliant CEM Svcs
472	BYD	556	ReNOx
440	Calgon Carbon	487	RPM Solutions
651	California Analytical Inst.	483	SCS Engineers
540	Carbonxt, Inc.	456	Semi-Bulk Systems Inc
654	CEM Service Group, Inc.	488	SNEI Biological
369	Cementex	360	Soffinway
601	CEMS Experts	381	Solar Light for Africa
589	Chaoticwaters, Inc.	355	Solar Turbines
359	Charah Solutions, Inc.	476	Spectrum
568	CiSCO	458	Sphera Solutions
382	Clayborn Lab	688	STI CEMS
588	Clean Harbors	457	STM Ecosystems
377	Day & Zimmerman	454	Substation Electric
695	DR DAS LTD	372	Suoer Insulated Build Tech
576	Durag	652	Superlok USA
682	ECO PHYSICS, INC.	671	Technical Heaters, Inc.
466	ECT	658	Teledyne API
356	Electro Industries/GaugeTech	557	Tetra Tech, Inc.
573	Emerson	480	ThermoFisher
553	Enablon	554	TMEIC
563	Environ Energy Svcs. (EES)	647	Trace Environmental
692	Environ Liability Transfer	357	Trachte LLC
363	Environ Supply Co.	452	TRC Companies, Inc.
474	Environ Systems Corp (ESC)	572	Trinity Consultants
586	EPA	587	RenewGeo (UC-Won)
484	ERM	341	U.S. DOE, O. of Fossil Ener
583	Evoqua Water Tech	362	United Chemi-Con
575	Fagen	591	United Conveyor Corp.
453	FirmoGraphs	648	Universal Analyzers
697	Fremont Mercury Services	593	University of Maryland
645	Gasmet	656	VIM
558	GHGSat	383	WaterSolve
662	GPRS	389	Wellness Consultants
467	Hamer Environmental	485	Wood
595	Hayward Baker & Moretrench	463	Wunderlich-Malec
657	Horiba	683	Yorke Engineering
674	Horizon Systems/LLC LOGOSGRUP		
566	Hydrolox		
473	IEM Energy Consultants LLC		
684	Ipetronik		



STEP 1. SELECT EUEC EXHIBIT BOOTH IN BALLROOM 6	COST	STEP 1. SELECT TE-EXPO EXHIBIT BOOTH IN SAILS PAVILION	COST
<input type="checkbox"/> (10' x 8') Furnished Exhibit Booth in EUEC	\$5,000	<input type="checkbox"/> (10' x 10') Furnished Exhibit Booth in TE-EXPO	\$2,500
<input type="checkbox"/> (20' x 8') Double Exhibit & Speak Package	\$10,000	<input type="checkbox"/> (10' x 20') Exhibit & Speak + Double Booth in TE-EXPO	\$5,000
<input type="checkbox"/> (20' x 8') Silver Booth Package	\$15,000	<input type="checkbox"/> (20' x 20') Exhibit Package in TE-EXPO	\$10,000

STEP 2. BOOTH CHOICE NUMBER: 1st choice 2nd Choice 3rd Choice

STEP 3. CONTACT INFORMATION:

COMPANY NAME: _____

Address: _____

City: _____ State: _____ Zip: _____

Email: _____ Phone: _____ Fax: _____

COMMENT: _____

Name: _____

Authorized Signature (required): _____ Date: _____

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 San Diego Convention Center, its owners, its operator, EUEC, and each of their respective parents, subsidiaries, affiliates, employees, officers, directors, and agents harmless against 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 exhibition premises or a part thereof, excluding any such liability caused by the sole gross negligence of the Convention Center and its employees and agents. Exhibitor shall obtain 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, insuring 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. This Agreement is governed by the laws of the State of Arizona, with exclusive jurisdiction in the courts in Tucson, Pima County, Arizona

CANCELLATION POLICY: Please see www.euec.com for full cancellation and refund policy.

FAX TO	1-602-296-0199	E-MAIL TO	INFO@EUEC.COM	ONLINE	WWW.EUEC.COM
EUEC, P. O. Box 66076, Tucson, AZ 85728 info@euec.com p: 520-615-3535 f: 602-296-0199 EUEC.COM					

RESERVE ON LINE AT:

www.euec.com/online-booth-reservation/

EV CHARGING, BATTERY & ELECTRIC FLEET

TE-EXPO.com
TRANSPORTATION ELECTRIFICATION



FEBRUARY 25-26, 2019 | SAN DIEGO, CA

TE-EXPO: Provides Speaking and Exhibit opportunities for suppliers to utility fleets, electric & alternate fuel vehicle manufacturers, battery & charging companies to showcase advanced technologies and strategies for compliance and implementation of SB350.

TE-EXPO is held in the 100,000 sq.ft. Sails Pavilion of the San Diego Convention Center, San Diego, California on February 25 and 26, 2019.

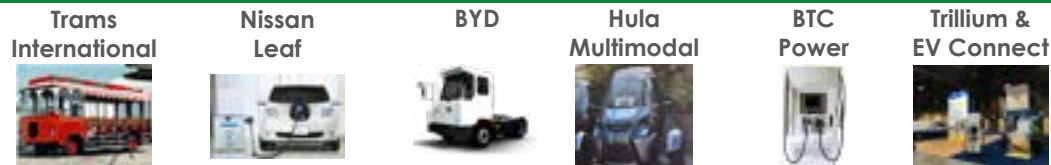
WHAT IS SB350: TRANSPORTATION ELECTRIFICATION

- SB350: DIRECTS CALIFORNIA REGULATORS (CPUC, ARB, CEC, AQMD)
- TO ELECTRIFY BUSES, TRUCKS, FLEET AND OFF-ROAD EQUIPMENT
- \$1B FUNDED BY INVESTOR OWNED UTILITIES SDG&E, SCE AND PG&E

WHO SPEAK & EXHIBITS AT TE EXPO?

- UTILITY FLEET SUPPLIERS
- LD/MD/HD FLEET
- FLEET DELIVERY SERVICES
- EV & AFV MANUFACTURERS
- AFV, CNG, H2 FUEL CELL
- ELECTRIC TRUCK & BUSES
- FAST CHARGING & INFRASTRUCTURE
- BATTERY, STORAGE & CHARGING
- SOLAR & RESIDENTIAL CHARGING
- TRANSPORTATION SOFTWARE
- METERING & DATALOGGERS
- OFF-ROAD EQUIPMENT, FORK-LIFT





















ELECTRIC TRUCK, BUS, TRAM & CHARGING STATIONS AT EXPO



SAILS PAVILION, SAN DIEGO CONVENTION CENTER



- | | |
|--------------------------------|----------------------------|
| 1321 Adams Campbell Co. | 1815 Hazard Control Tech |
| 1616 Aebi Schmidt | 1334 HeatTek |
| 1631 AEM | 1502 Hula Multimodal |
| 1204 AI Care | 1304 Hydrogenics USA |
| 1533 Arnold Fastening | 1722 KUBT |
| 1413 Autoliv | 1733 KULR Technology |
| 1416 Auzga | 1514 Momentive Performance |
| 1515 Ballard Power Systems | 1607 Motiv |
| 1720 Bender | 1802 Nissan |
| 1316 Black & Veatch | 1715 NorthStar Battery |
| 1622 Brake Parts | 1433 Nuuve |
| 1701 BTC Power | 1414 Paired Power |
| 1534 BYD | 1931 Perk Solar |
| 1633 C2 Group | 1634 Philatron |
| 1308 CALB USA | 1302 Phoenix Motor |
| 1322 CA Fuel Cell Partnership | 1532 Plug 'n Drive |
| 1609 Calstart | 1619 Polar Power |
| 1421 CA Air Resources Board | 1409 Proensis |
| 1216 CA H2 Business Council | 1410 Qwik Charge |
| 1522 Car-Connect NA | 1331 San Diego AQD |
| 1710 Cementex Products | 1401 SDGE |
| 1434 Center for Sustainability | 1613 Seal Methods |
| 1432 Clean Cities | 1707 SemaConnect |
| 1307 CleanCar | 1313 Solar Box |
| 1208 ClipperCreek Inc. | 1222 Sundial Energy |
| 1821 CRC Industries | 1714 Terzo Power Systems |
| 1807 C-TEMS | 1102 Tesla |
| 1610 CurrentWays | 1234 Torque Trends |
| 1519 Cyber Switching | 1301 Trams International |
| 1420 Elantas PDG | 1608 Trans Power |
| 1431 Electric Auto Asociation | 1508 Trillium |
| 1214 Energy Independence | 1131 Tropos |
| 1632 Enevate | 1620 Verdek |
| 1407 EV Connect | 1319 Wellness Consultants |
| 1734 EVI- EV Infrastructure | 1531 West Monroe Partners |
| 1731 Excell Battery | 1732 Wildcat Discovery |
| 1602 FleetCarma | 1831 Zettler |
| 1332 FuelCell Energy | 1833 Zero Truck |
| 1107 GM | 1507 Zonar Systems |
| 1719 Graphtec America | |

 1131	 1325	 1425	 1525	 1625	 1725	 1931	
<p align="center">EV Charging Utility Fleet and Infrastructure</p>							
 1125	<p>1234 1333</p> <p>Torque Trends San Diego AQD</p> <p>1232 1331</p>	<p>1334 1433</p> <p>Heat TEK Nuvve</p> <p>Fuel Cell Energy Electric Auto</p> <p>1332 1431</p>	<p>1434 1533</p> <p>CSE Arnold Fastening</p> <p>Clean Cities WMP</p> <p>1432 1531</p>	<p>1534 1633</p> <p>Plug 'n Drive AEM</p> <p>1532 1631</p>	<p>1634 1733</p> <p>Philatron KULR</p> <p>Enevote Excell Battery Wildcat</p> <p>1632 1731</p>	<p>1734 1833</p> <p>EVI CA Hard</p> <p>1732 1831</p>	 1925
<p align="center">Utility Fleet, Battery, Software, & EV Charging Stations</p>							
 1119	<p>1222 1321</p> <p>Sundial Energy Adams California Campbell</p> <p>Wellness Consultants</p> <p>1220 1319</p>	<p>1322 1421</p> <p>Fuel Cell CARB</p> <p>1320 1419</p>	<p>1422 1521</p> <p>Elangas Cyber Switch</p> <p>1420 1519</p>	<p>1522 1621</p> <p>Car Connect Polar Power</p> <p>1520 1619</p>	<p>1622 1721</p> <p>Brake Parts Prettl Electric</p> <p>Verdek Graphtec America</p> <p>1620 1719</p>	<p>1722 1821</p> <p>KUBT CRC Industries</p> <p>Bender</p> <p>1720 1819</p>	 1919
<p align="center">Fuel Cells - Battery - EV Fleet Software & Management</p>							
 1113	<p>1216</p> <p>Ca H2 Business Solar Box</p> <p>Energy Independence</p> <p>1214 1313</p>	<p>1316</p> <p>Black & Veatch Autoliv</p> <p>Free Wire</p> <p>1314 1413</p>	<p>1416 1515</p> <p>Auzga Ballard</p> <p>Paired Power</p> <p>1414 1513</p>	<p>1516 1615</p> <p>Momentiv Seal Methods</p> <p>1514 1613</p>	<p>1616 1715</p> <p>AEBI Schmidt Northstar Battery</p> <p>1614 1713</p>	<p>1716 1815</p> <p>Terzo Power Hazard Control Tech</p> <p>1714 1813</p>	 1913
<p align="center">EV Charging Battery Fleet</p>							
 1107	<p>1210 1309</p> <p>Clipper Creek Clean Car</p> <p>1208 1307</p>	<p>1409</p> <p>CALB Usa Inc Proensis</p> <p>EV Connect</p> <p>1308 1407</p>	<p>1410 1509</p> <p>Qwik Charge ZONAR</p> <p>1408 1507</p>	<p>1609</p> <p>Trillium CAL START</p> <p>Motiv</p> <p>1508 1607</p>	<p>1610 1709</p> <p>Current Ways Sema Connect</p> <p>Trans Power</p> <p>1608 1707</p>	<p>1710 1809</p> <p>Cementex C-TEMS</p> <p>1708 1807</p>	 1907
<p align="center">EV Charging Stations & Fleet</p>							
 1102	<p>1204</p> <p>Ai Care Tesla Rental</p> <p>Trams Inter-National</p> <p>1202 1301</p>	<p>1304</p> <p>Hydro Genics Sempra SDGE Fleet</p> <p>Phoenix Motor</p> <p>1302 1401</p>	 1402	 1502	<p>Fleet Carmia BTC Power</p> <p>1602 1701</p>	<p> 1802</p>	<p> 1902</p> <p>Displayed at Entrance</p>
<p align="center">ZEV/HD/MD Trucks & Buses & Fleet</p>							
<p align="center">ENTRY ENTRY ENTRY</p>							

EV CHARGING FLEET & BATTERY AT TE-EXPO

Sponsorship

CONTACT

Phone: (520) 615-3535

email: info@euec.com

1. One Page Advertisement of New Product or Company

Announcement In Show Guide – \$1,000

IA one page Pdf color advertisement in the EUEC Program Guide.
Email a 6" x 9.5" (1/4" bleed) CMYK color pdf file to info@euec.com

The Show Guide is the official, up-to-date information on the EUEC event. One page color Advertisement distributed to 2,000 delegates, is continuously referenced multiple times a day by all attendees. An excellent location for introducing new product or company announcements.

2. Session Sponsor/Cochair - Receive Full Attendee list \$500 per session

As a Session Sponsor you receive the full contact information of all attendees to your session. The cost is \$500. You may also Co-chair the session you are speaking, with your company logo prominently advertised among the leading experts in the industry.

3. Track Sponsor/Advisor - Receive Full Attendee list \$1,000 per track

As a Track Sponsor you receive the full contact information of all attendees to track. You may also serve in the Advisory Board of the Track with your company logo prominently advertised among the leading experts in the industry.

4. Advertisement in ENERGYNews – \$500 per issue

Leverage the EUEC network to reach 50,000 professionals in the energy utility and environment sector in North America. Place your logo and advertisement on ENERGYNews (linked to your website) announcing your new product, service or just your exhibit and speaking topics!

5. Attendee Lanyard, with Company Logo and information – \$3,000

An excellent opportunity to market to every one of the attendees at the sign-in table with logo placement on lanyards of the attendee name badge holders, with your information.

6. Back Packs with Company Brochure & Information Stuffed – \$3,000

An excellent opportunity to market with your company brochure, and other material, stuffed in EUEC Backpack provided to every one of the 1,500 attendees at the sign-in table. Mail to receive by Feb 23rd.

7. Hotel Key Cards – \$5,000

Effectively place your business card in every attendee's pocket. Four-color custom design imprinted on Hotel Key Cards distributed to all attendees staying at official show hotels.

8. Your Company Ad in Flash Drive Conference Proceedings – \$5,000

(What's more important to the conference delegates after the event than the complete conference proceedings? This package allows maximum take-home exposure with your logo on the top of every credit-card type flash drive. A full electronic brochure advertisement of your company is included in the flash drive.

9. Lunch / Reception Sponsorship – \$5,000 each event










As a Network Reception sponsor you will have your name and logo in front of 1,500 conference attendees, and on each meal ticket.

10. COFFEE Break Sponsorship – \$3,000 each event –

As a Network Reception sponsor you will have your name and logo in front of 1,500 conference attendees, and on each meal ticket.

HOTELS

- Walking distance to the Convention Center
- Contact the EUEC Hotels listed below directly, or
 - Reserve online at <http://www.euec.com/hotels-info/>

MANCHESTER GRAND HYATT  (619) 232-1234 \$269 0.3 MILES TO EUEC	COURTYARD GASLAMP  (800) 321-2211 \$229 0.3 MILES TO EUEC	EMBASSY SUITES  619-233-9922 \$239 0.7 MILES TO EUEC
HOTEL Z  (866)-866-7977 \$169 0.9 MILES TO EUEC	HILTON GASLAMP  (800) 445-8667 \$269 0.1 MILES TO EUEC	OMNI HOTEL  (800) 843-6664 \$291 0.2 MILES TO EUEC
HORTON GRAND HOTEL  (800) 542-1886 \$159 0.5 MILES TO EUEC	MOXY by MARRIOTT  (800) 321-2211 \$239 0.5 MILES TO EUEC	WYNDHAM BAYSIDE  (800) 996-3426 \$165 0.9 MILES TO EUEC

Warning

Beware of unauthorized phone solicitation.
EUEC does not make phone calls for hotels.