EUEC 2020: the 23rd Annual Energy, Utility & Environment Conference will be held concurrently with CHARGE & TE EXPO on April 20-21, 2020 at the Convention Center, San Diego, California.

- USA’s largest professional networking and educational event of its kind
- 1,500 delegates, 400 speakers and 200 exhibits

This Preliminary Program Guide provides the schedule and agenda for 2020, and the exhibitor prospectus with list of companies and floor plan.

### Conference Technical Tracks (7:30 am to 12 pm)

EUEC has nine technical tracks (A to I), CHARGE & TE-EXPO has four technical tracks (J to M). The technical tracks are held at 7:30 am to 9:30 am; 10 to 12 pm, and 2 pm to 4 pm.

### Exhibits & Receptions (11 am to 6 pm)

The Exhibits for EUEC, Charge Expo & TE-EXPO, in the 100,000 sq.ft. Sails Pavilion of the San Diego Convention Center from 11 am to 6 pm.

### 2-Day Exhibit Show Hours

- Sun. Setup 12 pm to 6 pm
- Mon. April 20 11 am to 6 pm
- Tues. April 21 11 am to 6 pm
- Tues. April 21 6 pm Tear Down

### Network Receptions

- Lunches in Exhibit Hall 11:30 am to 1:30 pm
- Receptions in Exhibit Hall 4 pm to 6 pm
**SCHEDULES & EVENTS**

**CHAIRMAN’S WELCOME RECEPTION**
By the Waterfront
Sun. April 19, 2020 | 5 pm to 7 pm

**8TH ANNUAL EUEC GOLF EVENT**
Torrey Pines Golf Course
Wed. April 22nd, 2020 | 8:00AM

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**EUEC 2020, CHARGE & TE EXPO SCHEDULE**

**Sunday | April 19**
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 | April 20**
7:00 am - 7:00 pm Registration
12 pm - 7:00 pm Exhibits Open
7:30 am - 9:30 am Tech Session 1
10:00 am - 12:00 pm Tech Session 2
11:30 am - 1:30 pm Networking Lunch
12:00 pm - 2:00 pm KEYNOTE in Ballroom
2:00 pm - 4:00 pm Tech Session 3
4:00 pm - 6:00 pm Networking Reception in Exhibit Hall

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**Tuesday | April 21**
7:00 am - 7:00 pm Registration
12 pm - 7:00 pm Exhibits Open
7:30 am - 9:30 am Tech Session 4
10:00 am - 12:00 pm Tech Session 5
11:30 am - 1:30 pm Networking Lunch
12:00 pm - 2:00 pm KEYNOTE in Ballroom
2:00 pm - 4:00 pm Tech Session 6
4:00 pm - 6:00 pm Networking Reception in Exhibit Hall
5:00 pm - 7:00 pm Networking Reception
7:00 pm - 10:00 pm Exhibit Tear Down

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**Wednesday | April 22**
8:00 am - GOLF at Torrey Pines
8:00 am - 12:00 pm Exhibit Tear Down

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**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.

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**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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**2020 Keynote Speakers**

**Scott Drury** — 12:00 PM - 12:30 PM
President, San Diego Gas & Electric (SDGE)

**Shawn Bennett** — 12:30 PM - 1:00 PM
Deputy Assistant Secretary, Office of Oil & Natural Gas, (U.S. DOE)

**THE TRANSFORMATION OF UTILITIES**
Terry Donnelly — 1:00 PM - 1:30 PM
President & COO, Commonwealth Edison Co (ComEd)

**EPA AIR PROGRAM UPDATE**
Reid Harvey — 1:30 PM - 2:00 PM
Director, Clean Air Markets Division, U.S. Environmental Protection Agency (U.S. EPA)

**LOGISTICS FOR EUEC2020, CHARGE & TE EXPO**
Prabhu Dayal — Moderator
Chairman, Energy, Utility, & Environment Conference (EUEC)
C1. SO2, NOx, HG, PM CONTROL

C2. COAL OIL GAS TECHNOLOGIES

C3. MULTI POLLUTANT CONTROL

C4. T & D, UNDERGROUND UTILITIES & DISTRIBUTION CABLES

C5. GAS TURBINE REGULATIONS & HYDRATED LIME

C6. UTILITY MANAGEMENT & EMISSIONS TECHNOLOGIES

D1. I&D MAINTENANCE: SEVERAGING ADVANCED REVENUE QUALITY BILLING METERS

D2. WORKING IN SWITZERLAND: CUBICLES JUST GOT A LOT SAFER

D3. ADVANCED GENERATION SYSTEMS FOR STATIONARY AND TRANSPORTATION MARKETS

D4. MACHINE LEARNING & DEEP LEARNING PROVIDE RISK CATEGORIZATION TO UNDERGROUND UTILITY DISTRIBUTION CABLES

D5. PROJECT FINANCE, RISK & DATA MANAGEMENT

D6. POWER GEN MANAGEMENT

C2.1 CASE STUDIES OF COMBUSTION TURBINE EMISSIONS REDUCTION

C2.2 DIESEL VS NATURAL GAS

C2.3 UNIT FLEXIBILITY FOR COAL FIRED UNITS

C2.4 MERCURY CAPTURE IN THE COAL INDUSTRY: BEYOND HADOWGOS

C2.5 PERFORMANCE IMPROVEMENTS FROM ELECTROCATITRIC PRECIPITATORS

C3.1 HAP REGULATION OF COMBUSTION TURBINES – MACT & KTR

C3.2 REDUCED FLOW ASSURANCE COSTS WITH LOW Dose HYDROCARBON INHIBITORS

C3.3 REDUCED FLOW ASSURANCE COSTS WITH LOW Dose HYDROCARBON INHIBITORS

C4.1 I&D MAINTENANCE: SEVERAGING ADVANCED REVENUE QUALITY BILLING METERS

C4.2 WORKING IN SWITZERLAND: CUBICLES JUST GOT A LOT SAFER

C4.3 CONSOLIDATION OF INVASIVE MUSSELS IN POWER GENERATION FACILITIES

C4.4 MACHINE LEARNING & DEEP LEARNING PROVIDE RISK CATEGORIZATION TO UNDERGROUND UTILITY DISTRIBUTION CABLES

D2.1 T&D MAINTENANCE: SEVERAGING ADVANCED REVENUE QUALITY BILLING METERS

D2.2 WORKING IN SWITZERL

D2.3 ADVANCED GENERATION SYSTEMS FOR STATIONARY AND TRANSPORTATION MARKETS

D2.4 MACHINE LEARNING & DEEP LEARNING PROVIDE RISK CATEGORIZATION TO UNDERGROUND UTILITY DISTRIBUTION CABLES

D3.1 FINDING THE HIDDEN VALUE IN YOUR PLANT DATA

D3.2 PEPARKS BRINGS TRANSPARENCY TO LONG-TERM PPA PRICES IN EUROPE

D3.3 ADVANCED GENERATION SYSTEMS FOR STATIONARY AND TRANSPORTATION MARKETS

D3.4 DIGITAL INTEGRATED TECHNOLOGIES FOR A SIMULATOR TRAINING & QUAL PROGRAM

D4.1 T&D MAINTENANCE: SEVERAGING ADVANCED REVENUE QUALITY BILLING METERS

D4.2 WORKING IN SWITZERLAND: CUBICLES JUST GOT A LOT SAFER

D4.3 CONTROL OF INVASIVE MUSSELS IN POWER GENERATION FACILITIES

D4.4 MACHINE LEARNING & DEEP LEARNING PROVIDE RISK CATEGORIZATION TO UNDERGROUND UTILITY DISTRIBUTION CABLES

D5.1 FINDING THE HIDDEN VALUE IN YOUR PLANT DATA

D5.2 PEPARKS BRINGS TRANSPARENCY TO LONG-TERM PPA PRICES IN EUROPE

D5.3 ADVANCED GENERATION SYSTEMS FOR STATIONARY AND TRANSPORTATION MARKETS

D5.4 DIGITAL INTEGRATED TECHNOLOGIES FOR A SIMULATOR TRAINING & QUAL PROGRAM
E1. WASTE TO ENERGY, RNG, SOLID WASTE

MONDAY APRIL 20 | 7:30AM - 9:30AM

Chairman, CEO and CTO, Waste Energy Solid Waste (MSW) to Green North America, Neste Matt Leuck, Technical Manager, CARBON FOOTPRINT REDUCTION Bret Swain, Senior Engineer, City of MUNICIPAL WASTE TO FUEL Power LLC Richard Fish, President and Chief U.S. WTE IN COMMUNITIES E1.3 EXTENDING ECONOMIC LIFE OF USING HEAVY OIL FEEDSTOCKS E1.2 HYDROGEN GENERATION E1.1 FOOD WASTE RECYCLING BEST PRACTICES Ryan Cooper, Waste Division Manager and Organics Recycling Lead, Rubicon E2. WASTE-TO-ENERGY CIRCULAR ECONOMIC STRATEGY FOR VERTICAL FARMS Joel Cueto, Professor of Biosystems Engineering, The University of Arizona E2.3 MANAGEMENT OF ANAEROBIC DIGESTER EFFLUENT USING FORWARD OSMOSIS Keith Lamp, President, Fluid Technology Solutions E2.4 FUELING BUSINESSES WITH RENEWABLE NATURAL GAS AND ANAEROBIC DIGESTION Peter Bharag, Chief Development Officer, Bioenergy DevCo. E3.1 FLIP OR FLOP: CONVERSION TO RNG Jeffrey Pierce, Senior Project Director, ECS Engineers E3.2 SOLVANO SAMPING METHODS: ONLINE VS OFFLINE Dr. Victoria Brewer, Product Leader, Protea Ltd.

TUESDAY APRIL 21 | 7:30AM - 9:30AM

E4. MSW, SUSTAINABLE & GREEN PROJECTS

S6.1 THE EVOLUTION OF EMISSION CONTROL ON LANDLORD GAS ENGINES AND TURBINES Patrick Sullivan, Senior Vice President, ECS Engineers.
S6.2 WASTE-TO-ENERGY OR WASTED ENERGY? Anthony Callo, Senior Project Director, AEcom.
S6.3 GASEIFICATION OF PALM-SHELL WASTES FOR ELECTRICITY King Paul Wang, Professor, National Cheng Kung University.
S6.4 RENEWABLE NATURAL GAS, A MARKETABLE COMMODITY FROM BIOLOGICAL WASTES David Blum, Vice President, TRC.

E6. CLIMATE, GHG, CARBON CREDITS

S6.1 “CARFREE” CITIES: ACCOMMODATING MILLIONS OF FLYING RAPIDLY INCREASED BILLY LEIGHTY, Director, Alaska Applied Sciences, Inc.
S6.3 GROUNDED EFFORTS TO CONQUER THE FUTURE OF ELECTRICITY MARKET EMBRACING NEW TECHNOLOGY Neda Miller, Principal, MILLER CTA.
S6.4 SUSTAINABLE WASTE FROM HEALTH CARE, ENVIRONMENTAL IMPACT & SOLUTIONS Dr. Bipan Thapa, Penuryanga, Associate Professor / Group Practices Director, New York University, College of Dentistry.

F4. WIND, SOLAR, PV & NUCLEAR

E4.3 ENVIRONMENTAL REVIEW FOR NRC SUBSEQUENT LICENSE RENEWAL BUSSEL Light, Environmental Consultant, Sargent & Lundy, LLC.
E4.4 URBAN-COMPACT RESIDENTIAL SOLAR AND ENERGY STORAGE SYSTEM Jason Katcha, President, Present Power Systems, LLC.
E4.5 ECONOMIC ANALYSIS OF TUBESKYPERS FOR NATURAL GAS PRESSURE LETDOWN Fredrick Sanborn, Vice President of Business Development, Cahners Technologies.

F5.5 THE EFFECT OF RENEWABLES ON FOSSIL FUEL-FIRED GENERATION Scott Osbourn, Principal, Trinity Consultants.
F5.3 CHALLENGES / OPPORTUNITIES: DEBATING CUSTOMERS, OTHERS, AND THE ENVIRONMENT Walker Wright, Vice President of Policy, ENGE Storage, ENGE North America.
F5.4 THERMAL ENERGY STORAGE TECHNOLOGY FOR THE ADOPTION IN POWER SYSTEMS Mario Magalí, Magalí Technologies.

F5.6 ENERGY STORAGE TECHNOLOGY REVIEW AND UPDATE Jason Barrons, Energy Storage Applications Engineer, Burns & McDonnell.
TUESDAY APRIL 21 | 7:30AM - 9:30AM
TREATMENT REMEDIATION, ELG, FGD

1.3.1. HOW TO ELECTROSTATICALLY CLEAN YOUR CHILLER/Cooling Tower System
George Wagner II, CEO, Wagner Technologies, LLC

1.3.2. NEW AND NOVEL NO PHOSPHORUS COOLING WATER TREATMENT
Pete Marsh, Executive Product Manager, Suez Water Technologies and Solutions

1.3.3. NOVEL SENSORS & PROCESSES TO REDUCE COOLING TOWER MAKE-UP AND BLOWDOWN
Gear Gile, Satworks Technologies

1.3.4. LESSONS LEARNED
Greg Seegert, Chief Hydrologist, EA Engineering, Science & Technology

I5.1. EFFECT OF HALOGEN ADDITIVES ON DOWNSTREAM CITY WATER TREATMENT PLANTS
Regina Rodriguez, President, Additives on Downstream City Water Technology

I5.2. OPTIMIZATION STUDY AT HEARNE CREEK POWER STATION
Christopher Wiggins, Aquatic Ecologist, Burns & McDonnell

I5.3. ENERGY EFFICIENT WASTE HEAT COUPLING FORWARD OSMOSIS FOR EPSILON WATER
Nandakrishna Rappagopal, Associate Director, BIOSustainable Technology Center (BITC), Purdue Research Institute (PRI), University of Illinois Urbana-Champaign (UIUC)

I5.4. THE REALITIES OF INSTALLING EPA 316(B) COMPLIANT TRAVELING SCREENS
Ford Wait, Vice President of Sales, Altia-3D Inc.

14. WATER SUSTAINABILITY,

Tuesday April 21 | 10:00AM - 12:00PM

14.1. EFFECT OF HALOGEN ADDITIVES ON DOWNSTREAM CITY WATER TREATMENT PLANTS
Regina Rodriguez, President, Additives on Downstream City Water Technology

14.2. SECTION 316(B) OPTIMIZATION STUDY AT HEARNE CREEK POWER STATION
Christopher Wiggins, Aquatic Ecologist, Burns & McDonnell

14.3. ENERGY EFFICIENT WASTE HEAT COUPLING FORWARD OSMOSIS FOR EPSILON WATER
Nandakrishna Rappagopal, Associate Director, BIOSustainable Technology Center (BITC), Purdue Research Institute (PRI), University of Illinois Urbana-Champaign (UIUC)

14.4. THE REALITIES OF INSTALLING EPA 316(B) COMPLIANT TRAVELING SCREENS
Ford Wait, Vice President of Sales, Altia-3D Inc.

Wednesday April 22 | 2:00PM - 4:00PM

14.1. UPDATE OF WATER-RELATED ANALYSIS WORK AT NETL (INVITED)
Haeun Lee, General Manager, Equipment, Energy Systems, AVX

14.2. NOXIOUS ALGAE STRATEGIC MANAGEMENT FOR ENERGY AND ELECTRIC UTILITIES
 Alyssa Caloien, Scientist, EA Engineering, Science, and Technology, Inc., PBC

14.3. NEW PINCH VALVE TECHNOLOGY
John Chapman, Nuclear Engineer, Continuous Engineering Solutions
23rd Annual EUEC Conference colocated with Charge & TE-Expo

USA’s Largest
EV, Utility & Environment Conference
April 20-21, 2020 | San Diego, CA

Exhibitor Prospectus

Reserve Online at...
www.euec.com/exhibit-reservation/

NEW FORMAT
Conference
8 am - 12 pm
Exhibition
11 am - 6 pm

INCREASE EXHIBIT NETWORKING & LEADS

EXHIBITOR SPONSOR PACKAGES

DESCRIPTION OF EXHIBIT PACKAGE INCLUDES:
1. EXHIBIT BOOTH – furnished, with table and chairs
2. SESSION SPONSORSHIPS with Speaker and Co-Chair Placements
3. FULL REGISTRATIONS includes admission to conference & exhibits, flash drive, meals, & spouse pass
4. ATTENDEE LISTS – PRE AND POST DELEGATE LIST WITH FULL CONTACT INFO
5. MOBILE APP FOR ATTENDEES TO VISIT YOUR BOOTH, WITH PRIZE DRAWING
6. WELCOME RECEPTION – TICKETS WITH SPONSOR SIGNAGE
7. BANNER ADS – ADS ON EUEC WEBSITE & NEWSLETTER & MOBILE APP
8. FULL PAGE AD [11 IN GUIDE & SPLASH SCREEN ON MOBILE APP
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COST
$25K $15K $10K $5K

EXHIBITOR SPONSOR PACKAGES

GOLD SILVER BRONZE STANDARD

1. EXHIBIT BOOTH – furnished, with table and chairs
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PREPARED BY
PROENSI LLC

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www.euec.com/exhibit-reservation/
POST CONFERENCE GOLF

Wednesday, April 22, 2020

Torrey Pines Golf Course
11480 N Torrey Pines Rd, La Jolla, CA 92037

Tee times starting 8 am

Please complete the Golf Registration Form located at https://www.euec.com/golf-registration/ and provide your contact info to receive information, including: tee times, payment options, foursome selection & other details.

COST $350 (Includes green fees and golf cart) (Free passes for Silver & Gold Sponsors)

Contact EUEC for more information
info@euec.com | 520.615.3535
Free passes Available for Select Exhibit & Sponsor packages