YOU ARE INVITED TO THE ROBIN HOOD GALA

The Robin Hood Benefit Gala is the official gala of the Net Zero Conference and Los Angeles’s premier event to house the homeless. Produced by Verdical Group and benefiting LA homeless housing provider The Skid Row Housing Trust, the Gala will be hosted at the exclusive Jonathan Club in Downtown Los Angeles. Join us for an unforgettable evening and make a positive impact in LA!

There are over 52,000 people experiencing homelessness in Los Angeles County and we can make an impact. The Robin Hood Benefit Gala supports the Skid Row Housing Trust, a registered 501(c)(3) nonprofit organization that is committed to breaking the cycle of homelessness for its residents.

The Trust provides permanent supportive housing and on-site supportive services to nearly 2,000 individuals who have experienced homelessness, prolonged extreme poverty, poor health, disabilities, mental illness, and/or addiction can lead safe, stable lives in wellness.

Etiquette & Dress Code – Formal Attire

The Jonathan Club asks all attendees to comply with their etiquette and attire standards. Formal attire is required for entrance into the venue. Please do not wear shorts, jeans, hats/caps, or open-toed shoes. Cell phone usage is strictly limited in the event space as well.

Register here: www.robinhoodgala.com
MAHESH RAMANUJAM

Considered one of the world’s most influential individuals in the field of architecture and green building movement today, Jason is a highly sought out designer, consultant and thought leader around the planet. He is the recipient of the prestigious Buckminster Fuller Prize, has been called the ‘Steve Jobs’ of the green building industry, a “World Changer” by GreenBiz magazine and has been selected as the Award of Excellence winner for Engineering News Record- one of the only individuals in the architecture profession to have won the award in its 52-year history.

McLennan is the creator of the Living Building Challenge, as well as a primary author of the WELL Building Standard. He is the author of six books on Sustainability and Design – including the Philosophy of Sustainable Design, which is considered the ‘bible’ for green building” – and is both an Ashoka Fellow and Senior Fellow of the Design Future’s Council. He serves as the Chairman of the International Living Future Institute and is the CEO of McLennan Design.

SENIOR KEVIN DE LEÓN

Senator de León is the son of a single immigrant mother and was the first in his family to graduate from high school and college. With his leadership and landmark legislation, Senator de León has established California’s reputation as a recognized global leader in the battle against climate change and a pioneer in creating a clean energy economy.

He played a central role in crafting a bipartisan deal this year to extend California’s cap-and-trade program with $1 billion of the generated revenue to tackle diesel pollution and bolster electrification of our transportation and vehicles. Senator de León was elected by his colleagues to lead the Senate in 2014, making him the first Latino to hold that position in over a century.

Under his leadership, California has added over 20,000 additional slots for California students in the UC and the CSU. Both budgets during his tenure have been delivered on time, provided protective reserves, paid down debt, provided relief funding for the drought, and wisely invested in children and working families.

MAHESH RAMANUJAM

Mahesh Ramanujam is proving that building a more sustainable world is no longer a dream, but a global evolution. As president and CEO of the U.S. Green Building Council (USGBC) and Green Business Certification, Inc. (GBCI), he leads a community of 13 million people that’s growing every day.

Before becoming President and CEO of USGBC, Ramanujam served as both the organization’s COO and CIO. Prior to joining GBCI in 2009, he was COO of Emergys Corp., and for more than a decade, he successfully led various business transformation programs at IBM and Lenovo.

Transformative thought programs, partnerships, and initiatives continue to be at the heart of Ramanujam’s work today. He envisions a world where construction is as much about compassion as it is about the convenience and efficiency of the structures themselves. Most importantly, behind every strategy, he emphasizes our universal responsibility to prioritize health and wellness, to make a commitment to the longevity of our planet, and to create a better quality of life for ourselves and future generations.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 am</td>
<td>Registration &amp; Breakfast</td>
</tr>
<tr>
<td>8 am</td>
<td>Welcome &amp; Opening Remarks</td>
</tr>
<tr>
<td>9 am</td>
<td>Morning Keynote: Jason F McLennan</td>
</tr>
<tr>
<td>10 am</td>
<td>E01: Case Study: The Net Zero Plus Facility</td>
</tr>
<tr>
<td>11 am</td>
<td>E02: Utility Panel: Power Women!</td>
</tr>
<tr>
<td>12 pm</td>
<td>Midday Keynote: Senator Kevin de León</td>
</tr>
<tr>
<td>1 pm</td>
<td>Lunch &amp; Passive House Ice Box Challenge (Venue Tour at 12:30pm)</td>
</tr>
<tr>
<td>2 pm</td>
<td>T01: Net Zero Transportation Panel</td>
</tr>
<tr>
<td>3 pm</td>
<td>E03: Equitable ‘Net Zero’ for Buildings</td>
</tr>
<tr>
<td></td>
<td>E04: Debunking ZNE Myths: The Game Show</td>
</tr>
<tr>
<td>4 pm</td>
<td>IN01: Net Zero for the Public Good: The City of Santa Monica &amp; the Living Building Challenge</td>
</tr>
<tr>
<td>5 pm</td>
<td>E07: On the Path to Net Zero: Reducing the Embodied Carbon of Buildings</td>
</tr>
<tr>
<td>6 pm</td>
<td>E08: Sunnylands: When Zero is Just the Start</td>
</tr>
<tr>
<td>7 pm</td>
<td>E09: 2020 &amp; 2030 Panel: Net Zero Code in California</td>
</tr>
<tr>
<td></td>
<td>E10: ZE School Changes School District Design Goals</td>
</tr>
<tr>
<td></td>
<td>IN02: Innovation, Entrepreneurship, and the Road to Net Zero</td>
</tr>
<tr>
<td></td>
<td>IN03: All Systems Go: Toward Zero Energy, Water, &amp; Waste in Buildings</td>
</tr>
<tr>
<td></td>
<td>Afternoon Keynote: Mahesh Ramanujan</td>
</tr>
<tr>
<td>8 pm</td>
<td>Evening Reception in the Expo Hall</td>
</tr>
<tr>
<td></td>
<td>(Venue Tour at 5:30pm)</td>
</tr>
</tbody>
</table>

**PROGRAM**

**THURSDAY, SEP 13**

**AUDITORIUM**

**THEATER**

**HI-BAY ROOM**
This 3-hour introductory course is designed for those interested in learning more about the movement towards Zero Energy design, engineering and construction with the International Living Future Institute (ILFI). Join ILFI’s Zero Energy Director Andrew Lee to explore best practices for projects pursuing ZNE performance -- showing project case studies and strategies to achieve ILFI’s Zero Energy Certification and Living Building Challenge Energy Petal certification -- as well as highlight key incentives and other resource offerings from Southern California Edison to support leading projects.

WP02: Living Building Challenge Los Angeles Creating a Regenerative Future

What does a regenerative future for LA look like? How can you become a part of this movement?

The Living Building Challenge Los Angeles Collaborative is a network of deeply passionate and highly motivated sustainability professionals working towards a regenerative future. Our mission is to encourage the creation of Living Buildings, Sites, Communities in Los Angeles while inspiring, educating, and motivating transformative change. Join us for an interactive session to learn about the various Sub-Committees and how to be a part of the Collaborative. Learn about our past and upcoming events to advance the Net Zero Energy, Net Zero Water, and Net Zero Waste goals in the Los Angeles region.

The second half of this workshop will be a presentation by Integral Group, highlighting one of their most advanced NZE projects, the RRC.

The RRC was once an abandoned historic building which had been damaged in a fire and has been transformed into a net zero, LEED Platinum learning center which is educating the next generation of change makers. This project serves as an example of the importance of reusing existing buildings as it relates to embodied carbon and also the opportunities around us to transform existing spaces into new purposes. The project team worked together to implement smart, cost effective, simple design decisions which included passive design elements, re-using many of the buildings existing elements and on-site PV. These strategies work together to reduce the overall energy consumption of the building while also serve as an education opportunity for the students at the college.

WP03: International Living Future Institute & Southern California Edison Zero Energy Accelerator Course: Advanced (Commercial & Multifamily)

In this workshop, IBEW/NECA discuss lessons learned during the NetZero Plus building retrofit and continued monitoring. The challenges of retrofit include meeting construction timelines, reducing costly delays, meeting current building codes & the city’s ability to understand NetZero. The interaction between existing and emerging technologies. The challenges of monitoring the retrofit building may include equipment not operating properly. Additionally, many banks are not internally prepared for this emerging NetZero building concept. The goal of this workshop is to bring knowledge from experience in order to assist others with navigating the challenge of transitioning to NetZero, while determining the best company route for setting goals with company priorities in mind.
WP05: IBEW 11 - LA NECA & LA Dept of Water & Power
Challenges of Retrofitting & Monitoring ZNE Buildings

In this workshop, IBEW/NECA discuss lessons learned during the NetZero Plus building retrofit and continued monitoring. The challenges of retrofit include meeting construction timelines, reducing costly delays, meeting current building codes & the city's ability to understand NetZero. The interaction between existing and emerging technologies. The challenges of monitoring the retrofit building may include equipment not operating properly. Additionally, many banks are not internally prepared for this emerging NetZero building concept. The goal of this workshop is to bring knowledge from experience in order to assist others with navigating the challenge of transitioning to NetZero, while determining the best company route for setting goals with company priorities in mind.
NET ZERO 2018

THURSDAY, SEP 13

E01
Case Study: The Net Zero Plus Facility

The Net Zero Plus Electrical Training Institute serves as the flagship building performance model for the International Brotherhood of Electrical Workers (IBEW) and the National Electrical Contractors Association (NECA) organizations. This “living laboratory” with solar panels, a microgrid, EV charging stations and a sophisticated building automation system dashboard boasts net positive energy performance while also serving as the educational hub for over 1,500 electricians annually.

E02
Utility Panel: Power Women!

Several of California’s largest utility providers come together to discuss their most exciting new net zero initiatives and interact with audience members in a brief Q&A session. Utilities have massive impacts on net zero energy, water and climate change, and these “power women” will share their perspectives from each utility and their uniquely powerful female voices at these ubiquitous organizations.

T01
Net Zero Transportation Panel

This panel will discuss the future of transportation efficiency, equity, and technology in a rapidly changing world. Moderated by the Mayor of Culver City, with perspectives provided by major changemakers in the transit space including Uber, Metro, Renu Ventures, BYD, and LA DOT, join a discussion on the future of urban mobility and impact on carbon emissions and climate change.

E03
Equitable ‘Net Zero’ for Buildings

This presentation shares an alternate framework to ‘Net Zero’ that offers a more equitable assessment of local generation credits not based on total floor area. It includes alternate options for large buildings and those challenged by poor orientation or shadowfall. The presenter will share additional features of this framework that encourage fuel-switching plus a more regional- and climate-specific design of mechanical systems that enhance and align with renewable energy generation.
As ZNE is becoming more common, it’s also getting more push back from those who know little about what it truly means. This interactive session will prepare you to refute claims from clients, fellow designers, newspaper editors, and even your anti-development Aunt Tammy. Yes, even Aunt Tammy. “It’s too expensive!” “It’s ugly!” “No one wants to live in a mud puddle.” This session will give you the tools to counter the myths. Next, test your training as you go head-to-head with fellow zero energy building professionals in this game show setting to debunk common ZNE myths.

Debunking ZNE Myths: The Game Show!

Net Zero Waste Panel

You can’t talk net zero building performance and only mention energy and water -- waste is an integral part of the conversation as we shift our societal mindset toward reuse and away from disposable products that have a massive negative impact on climate change. Moderated by USGBC with perspectives from Kilroy Realty, Earth Friendly Products, All About Waste, and Loyola Marymount University.

Net Zero for Public Good: The City of Santa Monica & the Living Building Challenge

The City of Santa Monica is building the first LBC in SoCal. It will also be one of the first municipally owned LBC projects, and likely the most densely populated building to earn the Certification. These reasons create unique challenges for the design team, but also provide an exciting opportunity to advocate for better design as a Public Good. This session will focus on the challenges and opportunities presented by a municipal LBC project. The City will introduce the project and its unique design features, as well discuss the impact that the public review process plays in creating a more transparent approach to the design and construction process.

Breaking the Myth of Water Scarcity for Living Systems in Urban Architecture

Paul Kephart will present how a multi-disciplinary team of architects, ecologists and landscape designers can take a drop of water and transform it into a well-spring for resilient design in arid urban environments. The importance of fresh water on the planet is increasing exponentially. Prices are increasing, water systems are aging, and availability is decreasing. Designing for Net-Water is no longer a luxury; it is ‘responsible’ design.
By 2050, the population in California is expected to rise to 50 million people while our rainfall is projected to decrease by 10-15% due to climate change. A new model for urban water use must be considered: Eco Water Districts. An Eco Water District would be completely water independent – effectively taking the community off the water grid. Because of Southern California’s penchant for developing purely aesthetic manmade lakes in the late 20th Century, these lakes are prime candidates for Eco Districts. New waste water treatment methods allow urban watersheds to become localized. As Echo Park Lake has proven, these aging lakes can be revitalized into great urban parks that not only provide beauty and recreation but also become part of the urban infrastructure.

**E05**
Cheaper and Safer: How ZNE Profits Affordable & Luxury Housing Developers & Residents

This talk brings together two of the pioneers and ongoing leaders in the affordable NZE movement. Sean Armstrong and Robert Fortunato’s presentation will explode myths with facts from the field—ZNE is less expensive, safer and more luxurious. In this engaging presentation, they will illustrate how developers and contractors have adopted profitable business strategies, sharing lessons from homes to high rises.

**E06**
Fireside Chat on Distributed Renewables: Creating Value for your Portfolio

This session will discuss how institutional property owners and users of energy are creating additional value by installing onsite solar and storage at their properties. Sara and Drew will discuss the benefits landlords, tenants and users of energy are seeing by procuring their energy onsite. They will deep dive further into what it takes to actually get steel in the ground – covering topics such as contract negotiation and construction, and discussing the many pitfalls to avoid.

**E07**
On the Path to Net Zero: Reducing the Embodied Carbon of Buildings

Buildings – construction and operation – comprise one of the largest consumers of energy and sources of greenhouse gas (GHG) emissions. GHG emissions from buildings consists of the embodied carbon of materials and emissions from operations. This presentation will describe the approaches and best practices employed by two building product manufacturers to reduce embodied carbon and how specifiers and building owners can take advantage of these insights.
This panel will be a discussion on the role of entrepreneurs and startups in achieving net zero in buildings and transportation. The panel will discuss the unique role that clean technology startups play within the green building ecosystem, and how their products and businesses fuel the innovation and shift the market sentiment needed to make net zero a reality.

**E08**  
**Sunnylands: When Zero is Just the Start**

In 2015, the Annenberg Foundation at Sunnylands proceeded with an expansion on the historic Rancho Mirage estate. 7 aspirational goals were set, including NZ Water & Energy in one of the most extreme climates in country. Rather than ending at net zero, this project aspired to, “Start at Zero” & have positive impact. Learn how to create: exceptional human experiences, “default off” for low EUI, energy & water balance planning, cleaning the water, carbon neutral, zero waste, using red-list complaint materials.

**IN03**  
**All Systems Go: Towards Zero Energy, Water, and Waste in Buildings**

The drive towards zero energy buildings is imperative, but what about water and materials? Leading organizations are trending towards zero energy, water, and waste in building design and operations. This panel session will discuss how LEED and other rating systems help project teams design for net zero water, waste, and energy; identify synergies and disconnects between these goals; hear from global leaders implementing these strategies on real projects; and explore “zero” performance during operations.

**E09**  
**2020 & 2030 Panel: Net Zero Code in California**

Join leaders in the State of California push toward net zero energy for residential buildings by 2020 and commercial buildings by 2030. Statewide code changes are planned for these dates -- just over one year away for all single family new construction residential buildings in the State. A major transition for the building industry is coming soon. Hear a discussion from various State leaders led by the New Buildings Institute on the panel from CPUC, the State of CA Dept. of General Services, and the CEC.
E10
ZE School Changes School District Design Goals

Discovery Elementary School is the first elementary school designed in the 21st century for Arlington Public Schools in Virginia. The new school is two floors, 97,600 square feet, and built for an occupancy of 630 students. The AIA COTE Award winning school has a 16.4 EUI with a 500 kilowatt PV system. Discovery’s budget matched the last school constructed and had a sustainability goal of LEED Silver. The evolution of Discovery into the largest Zero Energy school in the U.S. demonstrates that exceptional outcomes can occur when the design team and owner share a common vision to design a school that provides a better environment for student education and a building that can be part of the education process.

We will be back next year for NZ19!

Reserve your exhibitor booth by Sep 20th for a 10% discount

Email us at hello@verdicalgroup.com

Tony Hans
National Director of Sustainable Projects
CMTA

Brian Turner
Electrical Engineer
CMTA
WP06: TRUE Zero Waste Program & USGBC
Don’t Let Your Bottom Line Go To Waste

Are you throwing away your bottom line? The TRUE (Total Resource Use and Efficiency) Zero Waste certification program digs deep into your company’s waste streams to turn them into valuable resources. This dynamic and interactive workshop will provide you with the tools to design and implement your zero waste plan. A variety of companies will present their success strategies including employee engagement, zero waste purchasing and going beyond recycling. Learn how to maximize your “resources” through hauler contracts, rightsizing and understanding commodity markets. Understand what is really behind the China Green Fence and how we can bring jobs and processing back to your local community.

WP07: Building Resilience Network & SDGE
Net Zero Plus Resilience - Preparing for a Changing World

Net Zero buildings are an essential step in meeting climate goals. But what happens when the grid goes down or the power goes out? Or when an earthquake hits? How will your building, your business and your community adapt to change and disruption? In this highly interactive session we will explore relationship between net zero and resilience, and how designing for both can create new synergies that make sense in both “blue sky” days and times of disaster. Participants will be introduced to a step-by-step process to form teams, evaluate risks and opportunities, set net zero and resilience goals, and design and implement programs and strategies that help buildings and businesses survive and thrive, no matter what the future holds.

WP08: Biomimicry 3.8 & HOK
Genius of Biome: California Coast Biomimicry

How does nature achieve net zero energy? Natural strategies can serve as inspiration for the design community as we address systemic issues of climate change, urbanization, and natural disaster. Explore how the biomimicry process has become a creative methodology for architects and engineers, drawing inspiration from natural forms, processes, and systems to provide a fresh opportunity to re-think and re-imagine design challenges. HOK and Biomimicry 3.8 will share the results of the “Genius of Biome: California Coast” research project that illustrates how species in the most biodiverse region in the US have adapted to systemic regional challenges, and how HOK is using this insight to drive innovative design that is well adapted, resilient and positive.

WP09: Passive House California
The Oscars for Envelope Design - Large & Small Buildings Category

Are you adding more insulation to your building envelope, but unwittingly undermining its effectiveness? Are there really cost effective - or free - details that will improve your building’s performance? Join us at this 3-hour workshop to look at specific details for large and small buildings that will help you optimize your building envelope and put you in the running for the Oscars of Building Envelope Efficiency. All details will be applicable to local California climates.
TOURS
begin at 12:30pm, 3:00pm, 5:30 pm.

We are thrilled to announce our continued collaboration with the International Brotherhood of Electrical Workers (IBEW) 11 & the LA National Electrical Contractors’ Association (NECA) to host the Net Zero 2018 Conference at their Net Zero Plus Facility in Commerce, California. The facility is a net positive living laboratory that features a microgrid, electric vehicle charging stations, energy dashboards, battery storage, and a large solar panel array.
We are proud that the NZ18 is a zero waste and carbon neutral event. Thanks to our generous sponsors: EvoEco, Zero Waste Company, and Schneider Electric.
ANEW
LACSI
Propel LA & LA County Public Works
LBC LA
USGBC LA
USGBC National
AEE SoCal
ASHRAE SoCal
PickMySolar
Rana Creek Design
Bioplastic Recycling
Go2Zero
Panelite
Electric Service & Supply Co
GetJuice
Southern California Gas
Southern California Gas
Lutron
Pankow
Knauf Insulation
Powertechs International
Skanska
Emu Systems
Hempitecture
CABEC
PassiveHouse CA
Spray Foam
Biomimicry 3.8
New Buildings Institute (NBI)
O’Bryant Electric
San Diego Gas & Electric
San Diego Gas & Electric
Southern California Edison
Southern California Edison
Southern California Edison
Skanska
Verdical Group
Hathaway Dinwiddie
Metro LA
IBEW 11 - LA NECA
LADWP
LADWP
GRID Alternatives
WoodWorks
RehabNova
Columbus Tustin Middle School
Vital Cleantech Ventures
Intellimeter
California Energy Alliance
Rosendin Electric
Turner Construction Company
SLOAN
Hilti
LA Lighting Manufacturing Co
Schneider Electric
One Source
Mitsubishi Electric
SageGlass
VCA Green
Lenity
TBD
TBD
TBD
TBD
Saya
Rain Systems
EvoEco
University of British Columbia
P2S Engineering
PDE Total Energy Solutions
NET ZERO 2018

Premier Sponsor
SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL® Company

Venue Host

Event Sponsors

Enhanced Sponsors

Exhibitor Sponsors

Community Sponsors

Carbon Offset Sponsor

NET ZERO FOR ALL
EXPO HALL BINGO

1. Visit all booths displayed below and get a sticker.
2. Return your completed bingo card to the registration table for 3 free raffle tickets.
3. Attend the Evening Reception at 5:30 pm for a chance to win prizes, must be present to claim prizes.

Prizes include: Amazon Echo, ILFI books, USGBC TRUE Certification Registration Fee

The above entities are not responsible for the raffle.
Building a Net Zero Future.