



California  
Energy  
Alliance

# Member Business Meeting

July 14, 2021, 11 a.m. - 12 p.m.

# Welcome & Meeting Overview

*Josh Dean, CEA Executive Director*



# CEA Antitrust Statement

The purpose of the CEA is to explore avenues of mutual interest and cooperation in building energy policy. It is important to recognize that these activities are subject to certain legal limits imposed by state and federal antitrust laws. One central concern of these laws is with combinations or agreements in restraint of trade whereby competition is reduced by design. In the course of all CEA activities, discussions among members involving pricing, sale terms, territories, production or other aspects of competition, must be avoided. In the event any member ever feels that the course of Alliance activities or statements or actions in Alliance meetings is headed into such an area, members should raise the issue immediately so that further discussion of such matters can be suspended pending receipt of advice satisfactory to the members that the topics addressed do not give rise to antitrust problems.



# Agenda

- 11:00 A.M. Welcome & Meeting Overview
- *Josh Dean, CEA, Executive Director*
- 11:05 A.M. Board of Directors and Strategic Planning Update
- *Cori Jackson, CEA President & Board Chair*
- 11:15 A.M. Outcome-Based Code: Working Group Update
- *Dema Tzamaras, Center for Sustainable Energy*
- 11:20 A.M. Cost-Effectiveness Metrics: Working Group Update
- *Dan Salinas, Salinas Lighting Consult*
- 11:25 A.M. Healthy Buildings: Working Group Update
- *Kelly Seeger, Signify*
- 11:30 A.M. Welcome New Members & Member Spotlight
- *Welcome Daikin and Dynalectric*
  - *Spotlight - Matthew Lacey, Daikin*
- 11:50 A.M. Upcoming Events & Meeting Wrap-up
- *CEA Fall Meetings Discussion*
  - *Josh Dean*





# Board of Directors and Strategic Planning Update

*Cori Jackson, CEA President & Board Chair*



# Thank you Doug Avery!

**Founding Member and Board Chair: 2016 - 2021**

Thank you for believing that CEA was possible. You provided the leadership to make it a reality, and the joyful support to ensure it flourished.



# Board of Directors Announcement

Welcome Christopher Ruch!

- Director of Training
- National Energy Management Institute



# 2021 Strategic Plan Updates

- Decarbonization embedded into all Initiatives
- Board and TAC met to finalize Pillars and Initiatives
  - Building Energy & Environmental Policy
    - OBC
    - Healthy Buildings
    - CEM
  - Building Codes & Standards Improvement & Evolution
    - Codes & Standards Evolution
    - Code Compliance Improvement
  - Government & Industry Engagement
  - Education & Outreach
- Work collaboratively with WGs to develop annual timelines and identify how WGs are incorporating and working towards CEA Mission & Vision
- Draft Strategic Plan in August



# Outcome-Based Code: Working Group Update

*Dema Tzamaras, Center for Sustainable Energy*



# OBC Updates

**Goal: Establish an outcome-based compliance pathway that is included in the California energy code**

- Meeting over the past few months as full WG
- Developing a small-scale research project framework
- Next steps
  - Identify funding opportunities
  - Outreach to local jurisdictions for pilot ordinances

**Interested in getting involved in the Working Group?**

Contact: Dema Tzamara - [demetra.tzamaras@energycenter.org](mailto:demetra.tzamaras@energycenter.org)





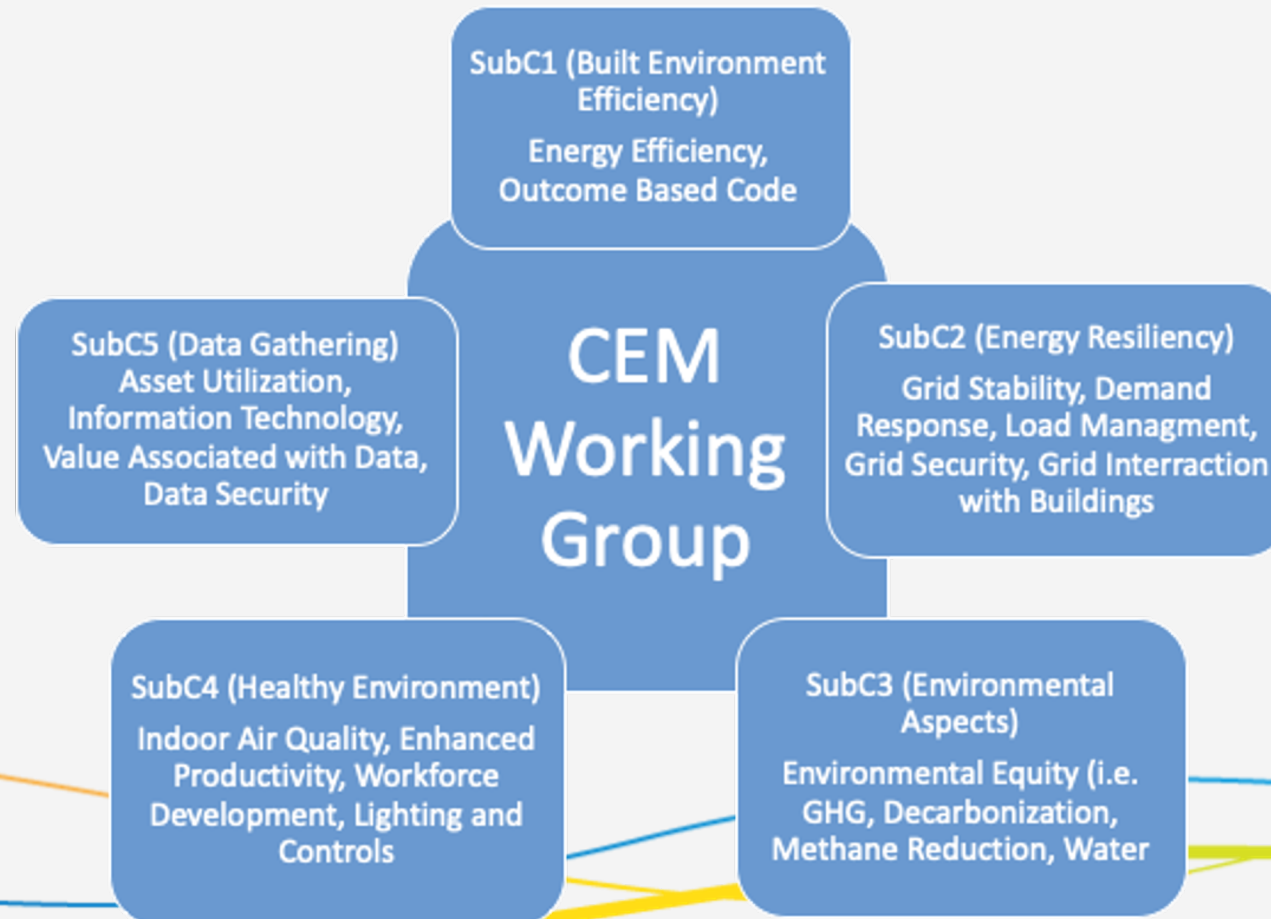
# Cost-Effectiveness Metrics: Working Group Update

*Dan Salinas, Salinas Lighting Consult*



# CEM Updates

- Established (5) sub-committees with their areas of responsibility in defining Cost Effective Metrics.
- The goal is to partner in this work with other CEA Working Groups to assist in creation of a unified message by taking our work and pairing it with others.





# CEM Updates

- Plan was presented to the CEA Board of Directors and approved on July 7th
- Upcoming meeting on August 2, 2021
  - Will begin selecting the target topics in each area
- First topic - review the work done by researchers at UC Davis
  - Historical review of the Cost Effective Metric as originally defined by the Warren-Alquist Act in the 1970s
  - Each revision or modification since then
  - Will be used in a white paper to present to legislators as a reason for evaluating the weaknesses and need for redefining the metrics to meet:
    - Current technology requirements,
    - Design needs that place humans first, and
    - Environmental concerns including Decarbonization.
- More projects will be defined and initial target goals set in each of sub-committees as we move forward over the next few months.



# Healthy Buildings: Working Group Update

*Kelly Seeger, Signify*



# The Sweet Spot for CEA

- Focus on **existing buildings**: there is minimal focus on existing buildings right now and we know EBs are the lion share of the building stock
- Explore energy implications and develop **energy best practices** for HEBs; e.g., non-energy benefits, water-energy nexus
- Bring **indoor environmental quality** (IEQ) back into building standards & regulations
- Build **holistic strategies for HEBs**: design + connectivity + Cx + operations & maintenance & FDD; can show how critical building operations are, where the issues are; include cost-justification
- Incorporate **outcome-based policies and measured performance outcomes, new cost-effectiveness measures**, etc.
- Offer a **new comprehensive approach** for healthy buildings
  - healthy for people
  - healthy for the environment
  - healthy for the economy-market / workforce / grid



# Proposed CEA Approach & Role

**Become the ‘institutional bridge’ between policy-makers and market for creating HEBs from the building stock**

Develop new comprehensive approach for healthy existing buildings

- ❖ healthy for people
- ❖ healthy for the environment
- ❖ healthy for market / workforce / grid

Create holistic strategies (design + connectivity + Cx + operations & maintenance & FDD)

Develop energy best practices

How Existing Buildings become Healthy Buildings



# Healthy Building Attributes

Our working list

Safety and Security



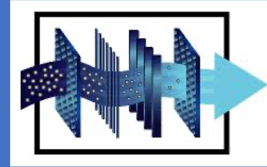
Ventilation



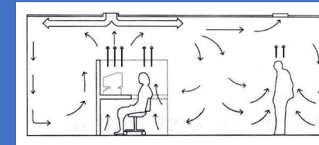
Air Quality



Filtration



Air Delivery



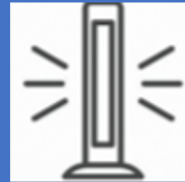
Thermal Comfort



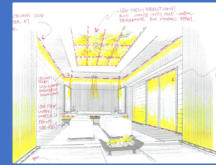
Moisture Management



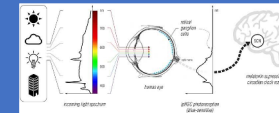
UV Disinfection



Lighting Quality



Circadian Lighting (HCL)



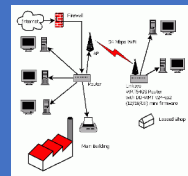
Sensors



Controls



Connectivity



Energy Impact



Sustainability & Grid



Acoustics



# Proposed WG Objectives

## 2021 – (mid) 2022

- Develop energy best practices
- Create holistic strategies with cost-justifications (and productivity metrics)
- Develop tri-HEALTHY concept
- (Some) materials creation + promotion begins

## (mid) 2022 –

- Recommend policy and code changes that align with market and push toward CA goals (align with OBC WG)
- Develop tools to incentivize building owners and manufacturers and designers to invest in HB technologies and practices (align with CEM WG)
- Materials creation + promotion
- Education

### Education and Promotion

- Vet and provide good information/data on HB to stakeholders including regulators, policy makers, manufacturers, building owners/operators...
- Share and promote energy best practices
- Illuminate the critical role that building operations play in achieve HBs
- Advise municipalities on how to incorporate HEBs into performance standards
- Training webinars, educational materials, conference seminars, white papers, etc. to promote approach – why important + how to achieve



# Proposed Workstreams

## best practices for energy

- Quantify non-energy benefits (work with CEM WG)
- Demonstrate links between HEBs and productivity, absenteeism, etc.
- Explore energy implications, energy-water nexus, etc. and develop best practices
- Conduct surveys & interviews to expand knowledge and uncover opportunities

## holistic strategies

- Explore systems
- Consider design strategies, connectivity strategies, Cx strategies, O&M + FDD strategies
- Cost-justification
- Explore work in municipalities on performance standards, look at CALGreen, ASHRAE 189.1, others
- Conduct surveys & interviews to expand knowledge and uncover opportunities
- Develop holistic strategy best practices for HEBs

## tri-healthy concept

- Develop the core ideals / guiding principles of the concept
- How does it work / how do we use it / why is it meaningful
- Develop visual means for explanation – perhaps an infographic and white paper
- CEA HEBs are:
  - Healthy for PEOPLE
  - Healthy for ENVIRONMENT
  - Healthy for ECONOMY / WORKFORCE / GRID



# Welcome New Members & Member Spotlight

*Josh Dean*





# Welcome New CEA Members!





*Matthew Lacey  
Division Sales  
Manager - Southwest*



# Member Meetings & Events

*Josh Dean, CEA Executive Director*



# July Member Education Webinar

- July Education Webinar
  - Tuesday, July 27th, 10 a.m. - 12 p.m.
  - New Buildings Institute - “Addressing the needs of the 99%: Saving Energy in Existing Buildings”

**Calendar invites sent out - share within your organizations**



# August Member Events

- No CEA events
- Attend CEC BEES - Public Hearing and Proposed Adoption Date
  - Aug. 11th at 10 a.m.



# September Member Business Meeting

- September Member Business Meeting
  - Thursday, September 9th, 11 a.m. - 12 p.m.
  - Change in day of the week to allow for CEC Business Meeting participation

**Calendar invites have been sent out.**



# October - Fall Member Meetings

- Fall Member Meetings
  - Wednesday, October 6th - Thursday October 7th
  - Day 1: 9:00 am - 4:00 pm Business Meeting with Working Groups and Board of Directors breakouts
  - Day 2: 9:00 am - 12:30 pm - 2025 Code & Standards Development
  - Poll - host in Davis or Regional Hubs

**Calendar invites have been sent out.**



# Wrap-Up

*Josh Dean, CEA Executive Director*







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Thank You  
For Attending  
CEA Member Business Meeting

Meeting Materials are available to  
CEA Members via the member portal at  
[caenergyalliance.org](https://caenergyalliance.org)