



# PATH TO ZERO NET ENERGY (ZNE) SCHOOL RETROFITS:

## Technical Training for Building Industry Professionals

Brought to you by the Investor-Owned Utility Proposition 39 ZNE Schools Pilot

**Tuesday, November 1, 2016 - 10:00-4:00 p.m.**

Pasadena Convention Center, Ballrooms A& B

### Meeting Agenda

- 9:30 – 10:00 a.m.      *Registration, Refreshments and Networking*
- 10:00 – 10:45 a.m.      Welcome & Introductions**
- *CA ZNE Goals & National Status of ZNE*
- 10:45 – 11:30 a.m.      Developing your ZNE Plan & Targeting ZNE**
- *Making ZNE a part of the designer contract and using the Owners Project Requirements (OPR) to guide the ZNE process*
  - *Setting Performance Targets: More than just Energy Use Intensity (EUI)*
- 11:30 – 11:40 a.m.      *Break*
- 11:40 – 12:15 p.m.      Designing to the ZNE Target – Part 1: Design for performance**
- *The design approaches and technologies that have a proven track record in ZNE projects, including daylighting, radiant heating/cooling, lighting controls, plug load controls, LEDs and beyond*
- 12:15 – 1:00 p.m.      *Lunch*
- 1:00 – 2:00 p.m.      Case Study Presentations**
- *Sacred Heart Elementary, Pauline Souza, WRNS Studio*
  - *Leyva Middle School Admin Building – John Diffenderfer, AEDIS Architects*
- 2:00 – 2:30 p.m.      Designing to the ZNE Target – Part 2: Design for Operations**
- *Defining the elements that need to be integrated into a building in order to enable ZNE operation, from energy monitoring and fault detection, to diagnostics, operations manuals, training and occupant engagement*
- 2:30 – 2:45 p.m.      *Break*
- 2:45 – 3:15 p.m.      Building to the ZNE Design**
- *Ensuring that a ZNE design becomes a ZNE building, from selecting contractors, construction and commissioning, to fine-tuning*
- 3:15 – 3:45 p.m.      Operating to the ZNE Design**
- *Taking ZNE Design to ZNE Reality: Selecting equipment, ongoing commissioning, maintenance, bridging from design to operations, and user training/occupant engagement*
- 3:45 – 4:00 p.m.      Closing Discussion**