PATH TO ZERO NET ENERGY (ZNE) SCHOOL RETROFITS:
A Technical Deep Dive into ZNE School Retrofits
Brought to you by the Investor-Owned Utility Proposition 39 ZNE Schools Pilot

Thursday, May 25, 2017 - 8:00 a.m.-12:00 p.m.
The Environmental Innovation Center, San Jose, CA

Workshop Agenda

Learning Objectives:
1. Understand the process associated with retrofitting a school to ZNE.
2. Utilize lessons learned and approaches used by a current Prop 39 ZNE Pilot School.
3. Understand the relative savings opportunities associated with HVAC, lighting, and envelope retrofits in schools in California.
4. Gain a greater understanding of the importance of operations on a ZNE outcome.

7:30 – 8:00 am  Registration, Refreshments & Networking
8:00 – 8:15 am  Welcome
   • Workshop Goals & Expectations
8:15 – 8:35 am  Introduction: Zero Net Energy & Prop 39
   • CA ZNE Big Bold Goals, National Status of ZNE in Schools & Energy Targets for ZNE
   • Overview & Status of Prop 39 Pilot Program
8:35 – 9:45 am  Process: ZNE Versus a Typical Project
   • Benchmarking & building evaluation approaches
   • Setting performance targets & establishing triggers for improving performance
   • The RFP process and Integrating ZNE into contracts
   • Selecting contractors, construction, commissioning agents, engineers, etc.
   • Engaging in an integrated design process & early design charrettes
   • Connecting design, construction & operations
   • Prop 39 Case Study: Performance Targets, Project Process & Ensuring Project Delivery
     Alexis Karolides, Point Energy Innovations
9:45 – 10:00 am  Break
10:00 – 11:00 am  Technologies: Opportunities in ZNE Retrofits
   • Relative savings opportunities in existing schools
   • Common challenges to ZNE performance
   • Commissioning, fine tuning & on-going evaluation
   • Addressing the gap from hand off to operations & maintenance
   • Verifying energy use & recognition of success
   • Prop 39 Case Study: Design Approaches, Technologies, Occupant Engagement & Lessons Learned
     Alexis Karolides, Point Energy Innovations
11:15 – 11:45 am  Activity: Benchmarking & Prioritization to Achieve ZNE
11:45 – 12:00 pm  Closing Discussion