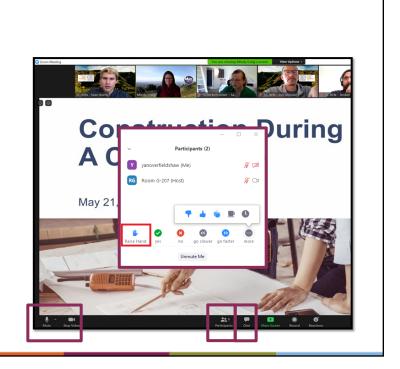
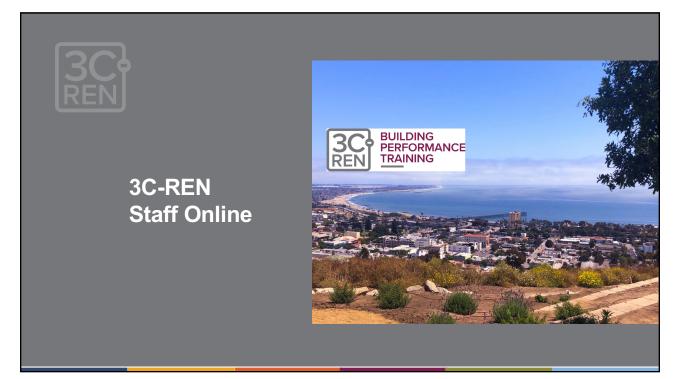


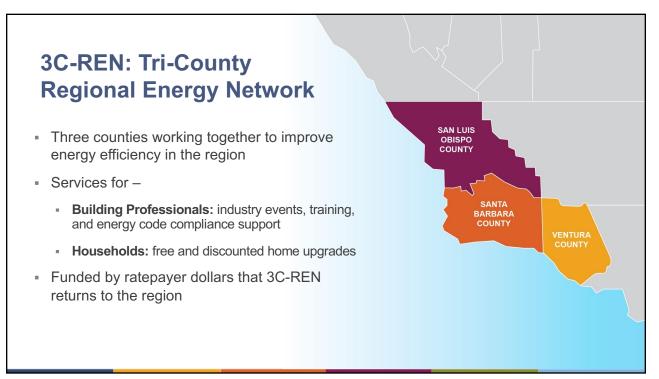


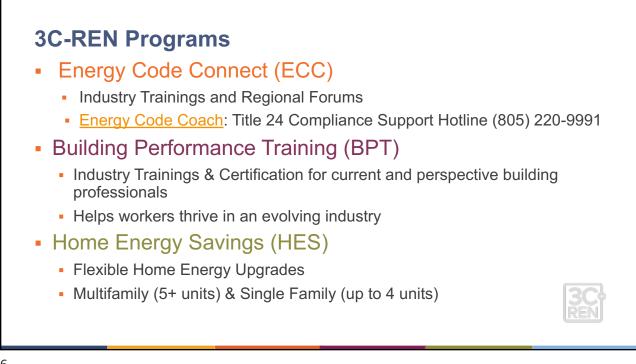
## **Zoom Orientation**

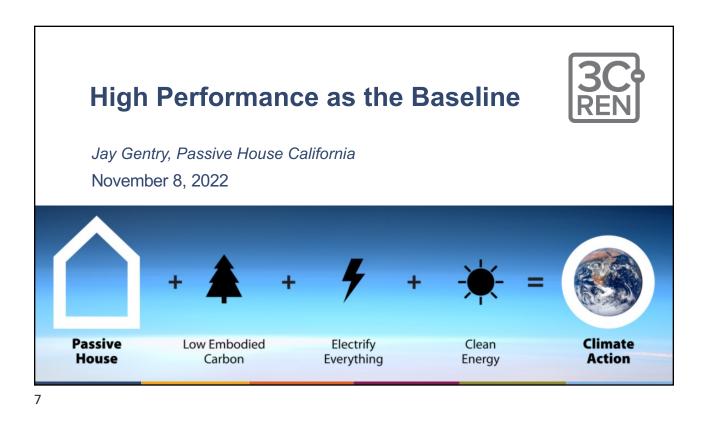
- Please be sure your full name is displayed
- Please mute upon joining
- Use "Chat" box to share questions or comments
- Under "Participant" select "Raise Hand" to share a question or comment verbally
- The session may be recorded and posted to 3C-REN's on-demand page.
  Feel free to ask questions via the chat and keep video off if you want to remain anonymous in the recording.



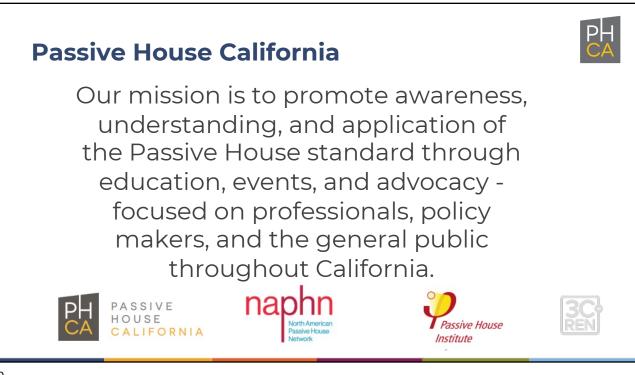




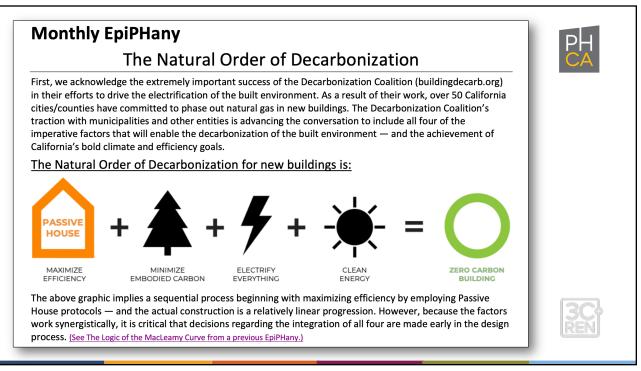






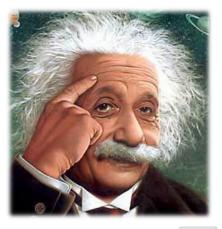




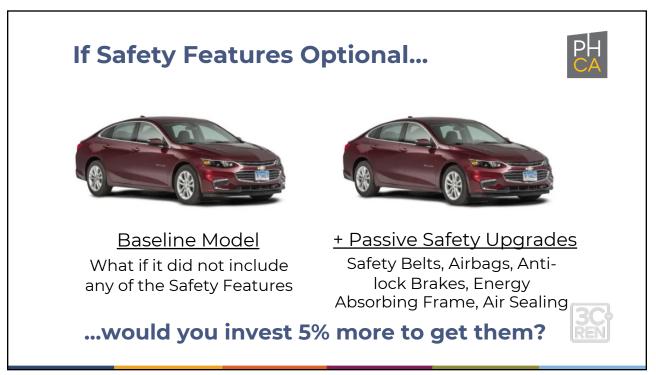


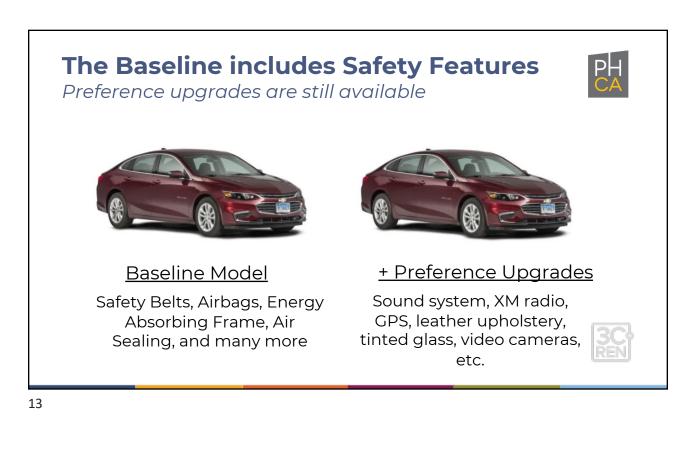


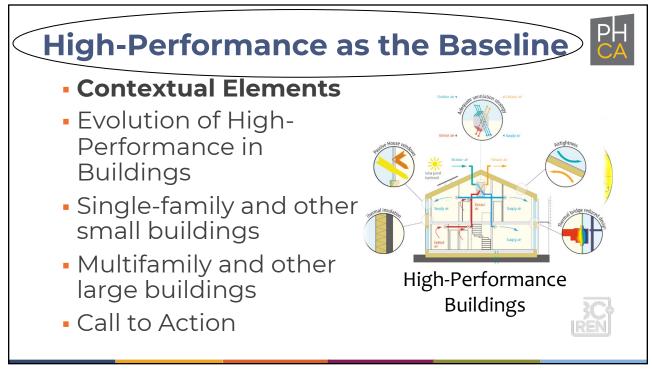
- Baseline is
  - The minimum acceptable
  - The logical starting point
  - The standard
  - The guideline
  - The norm
  - The best practice

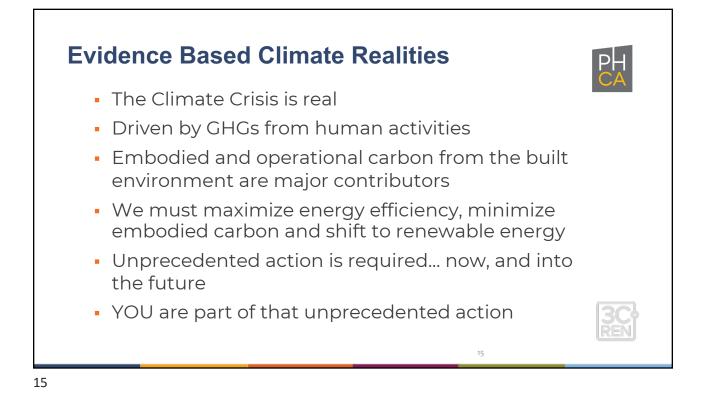


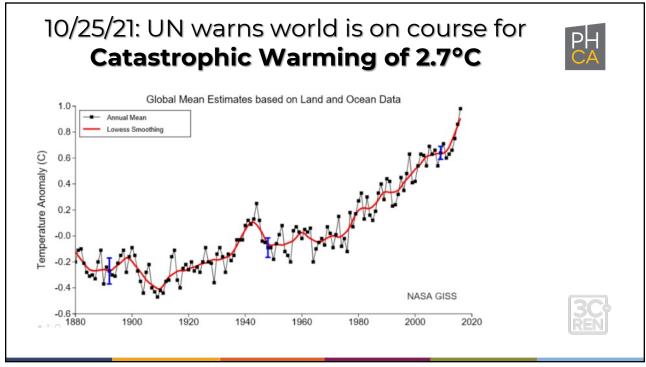




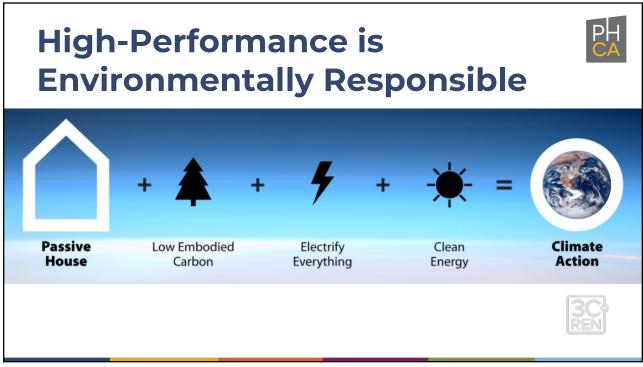


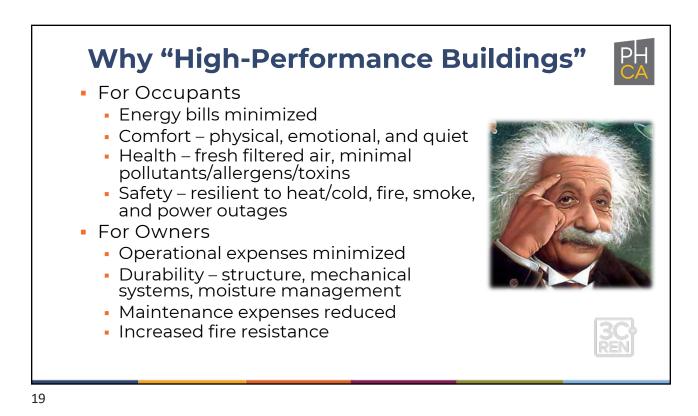


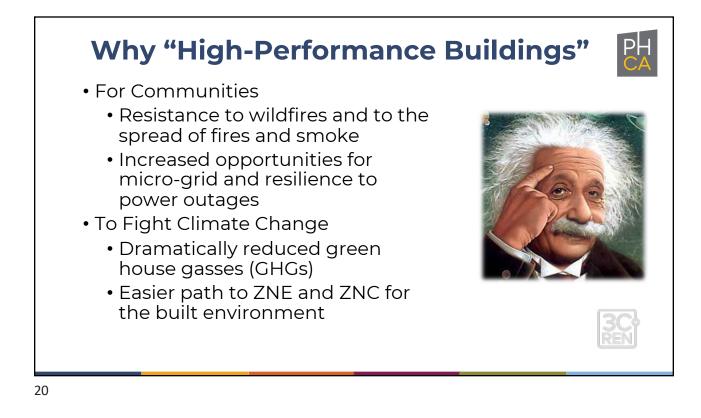


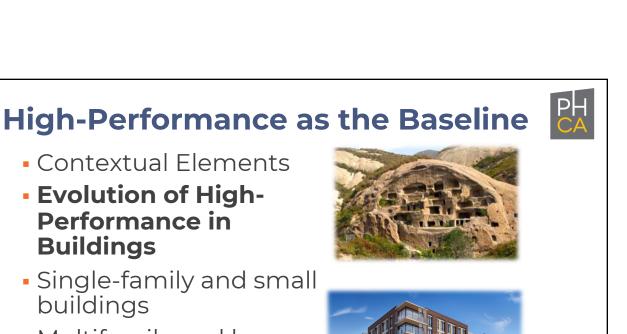






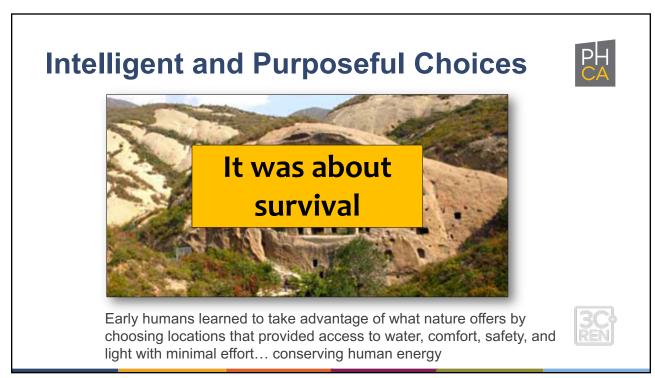


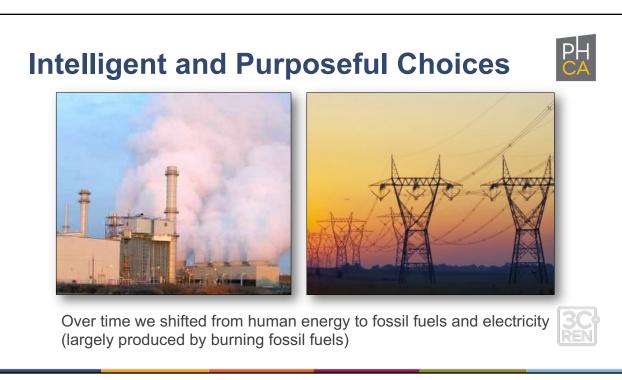




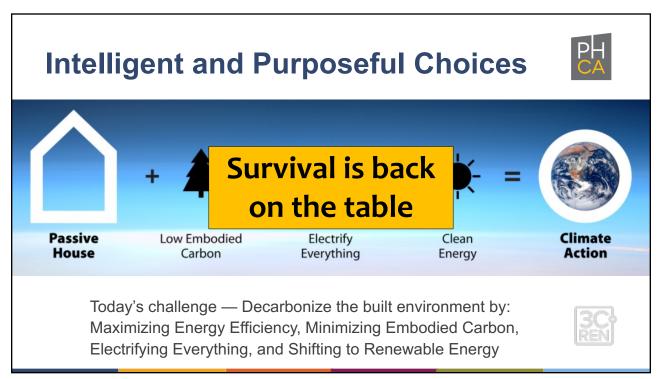
Page 1

- Multifamily and large buildings
- Call to Action



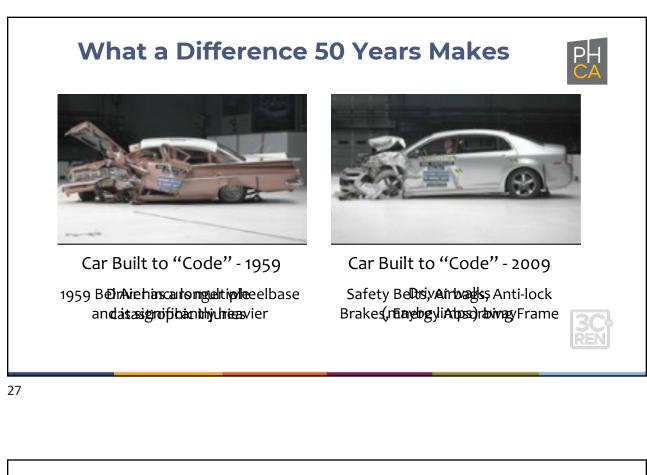




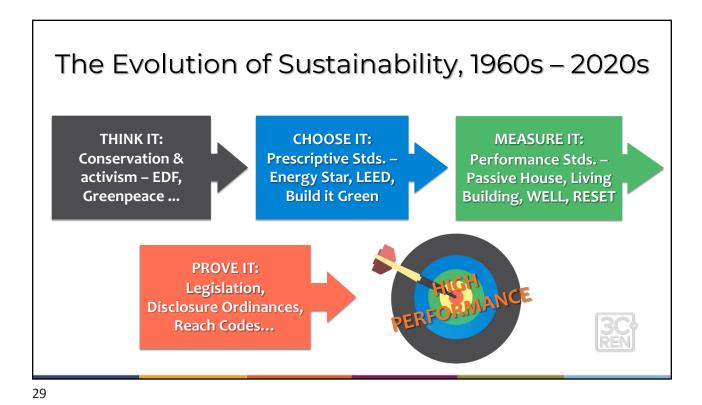








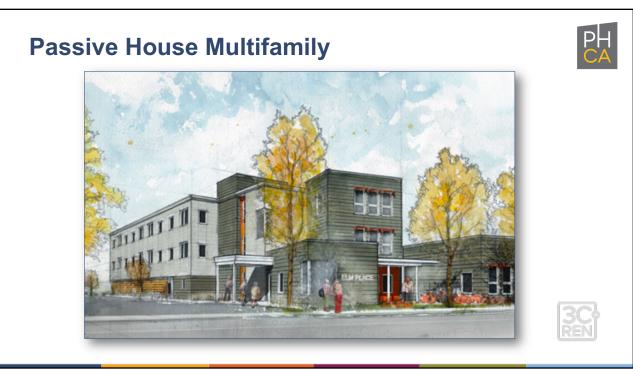


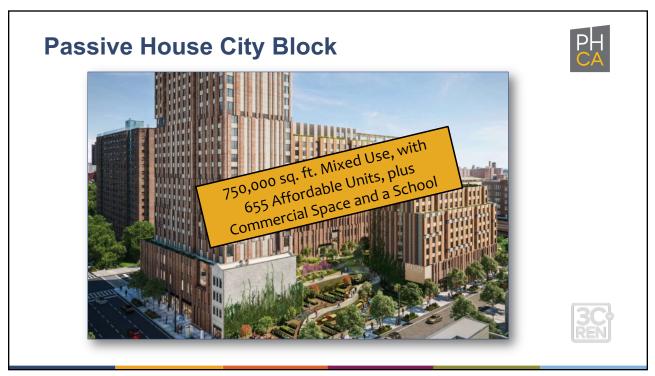






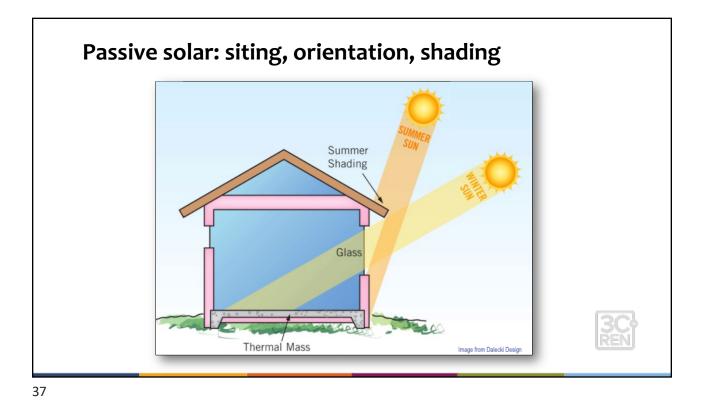


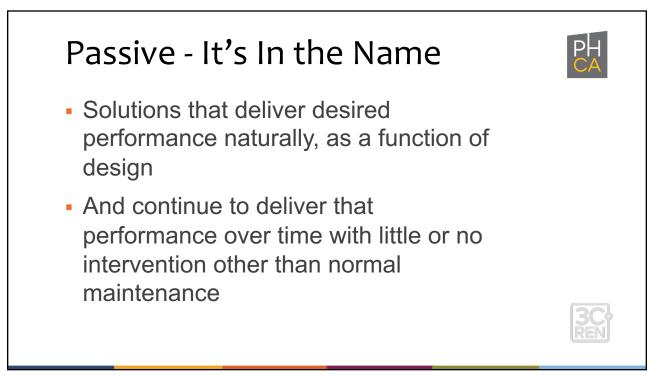






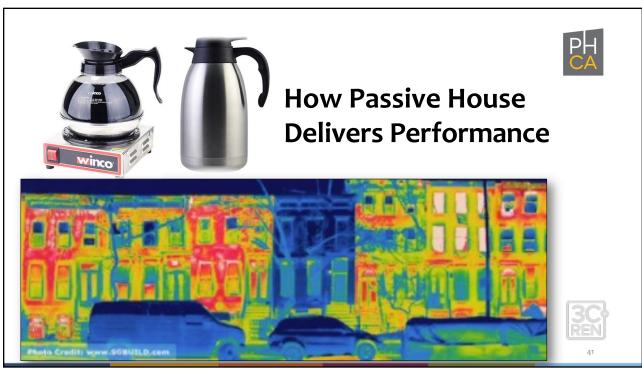




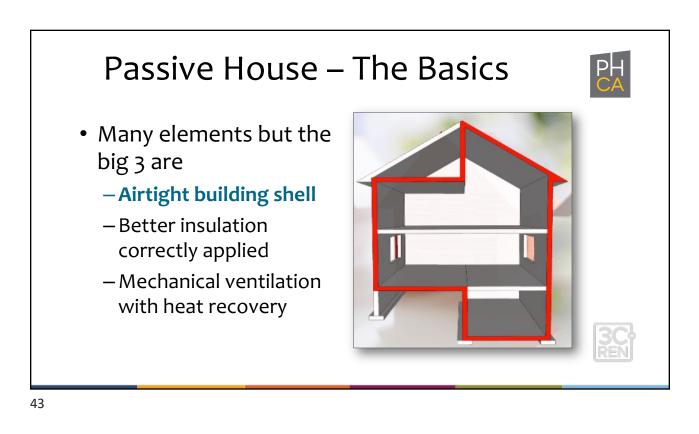


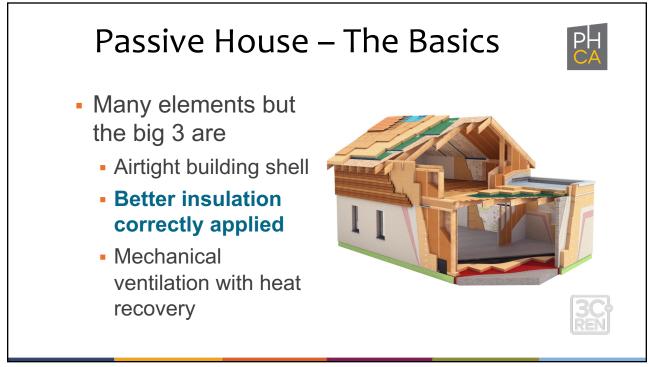




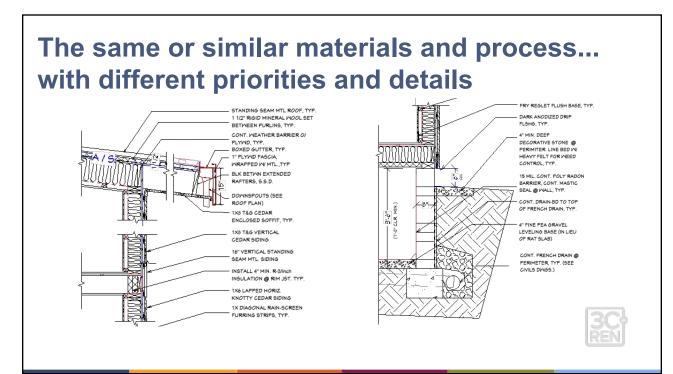


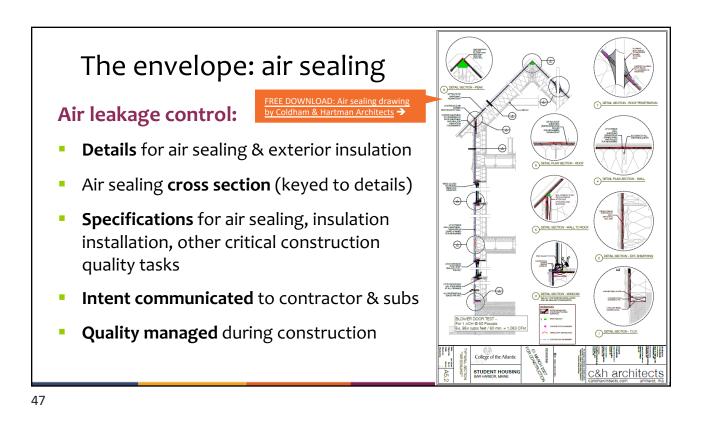


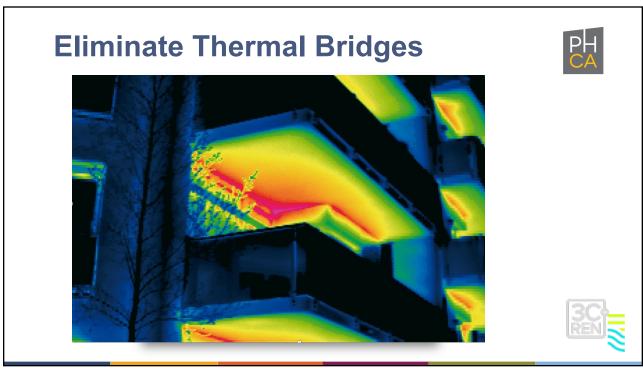


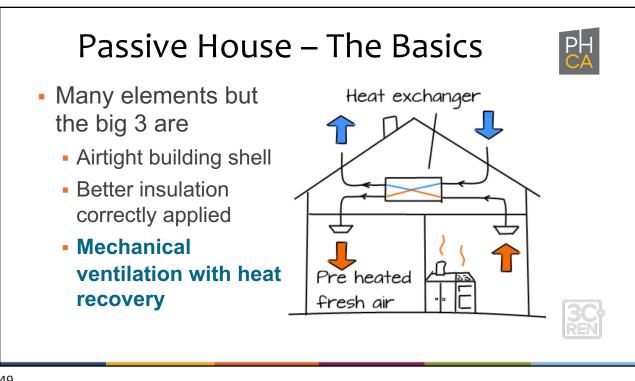




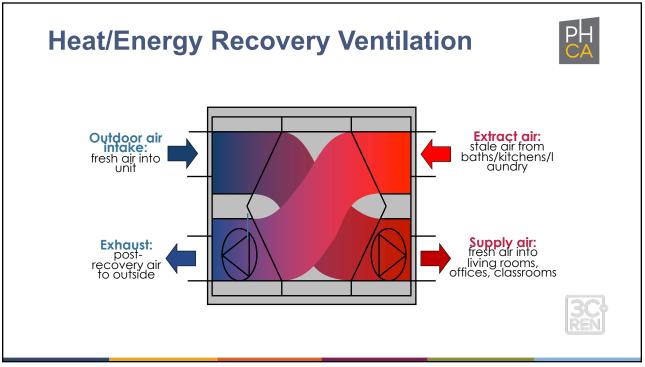


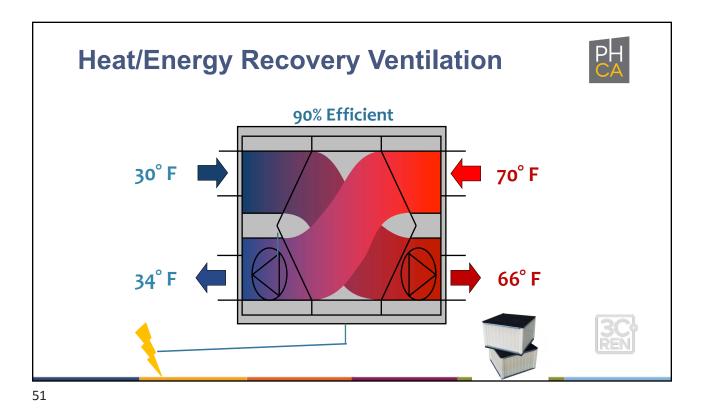


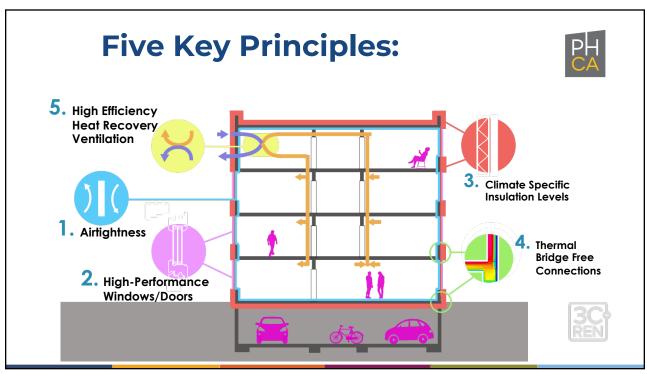




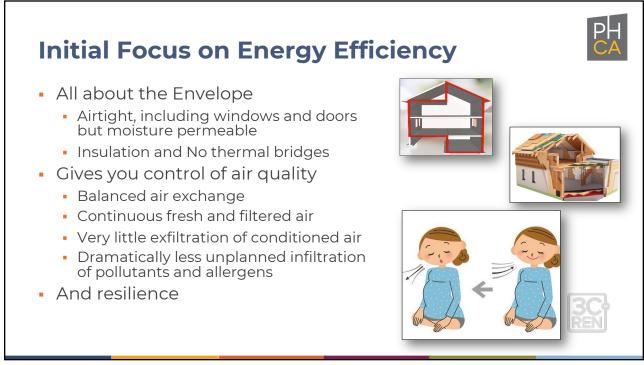


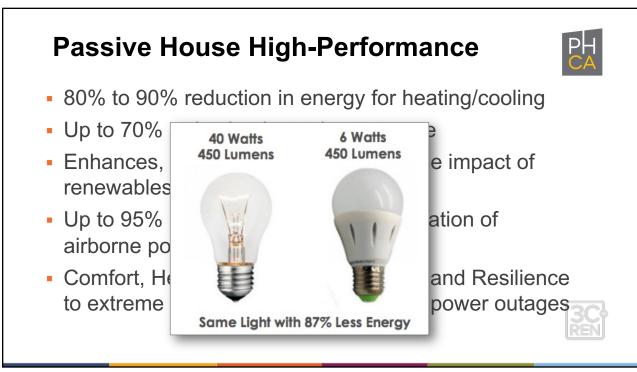


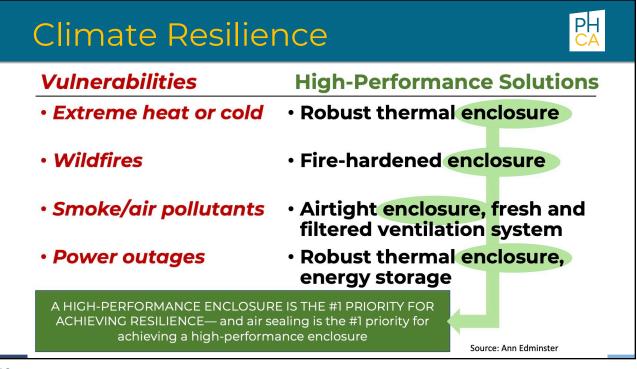




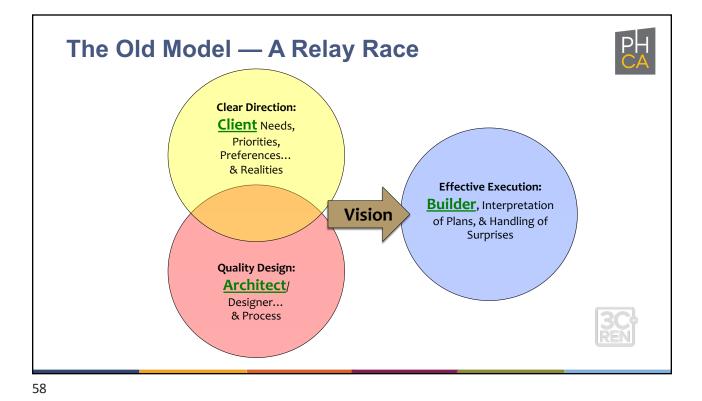


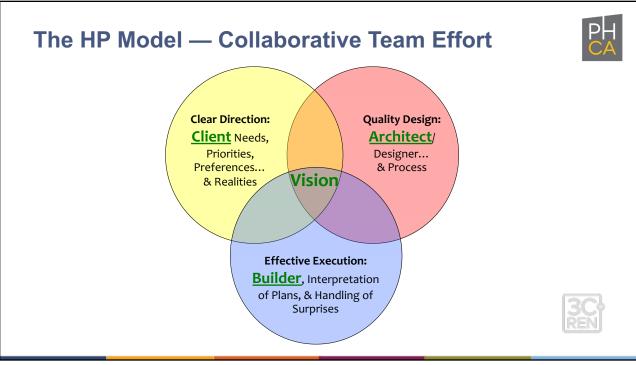


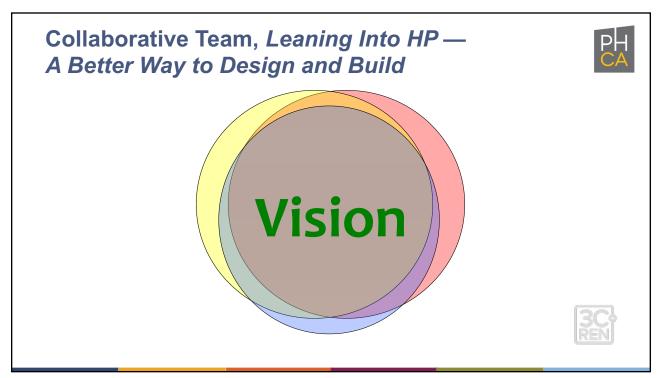


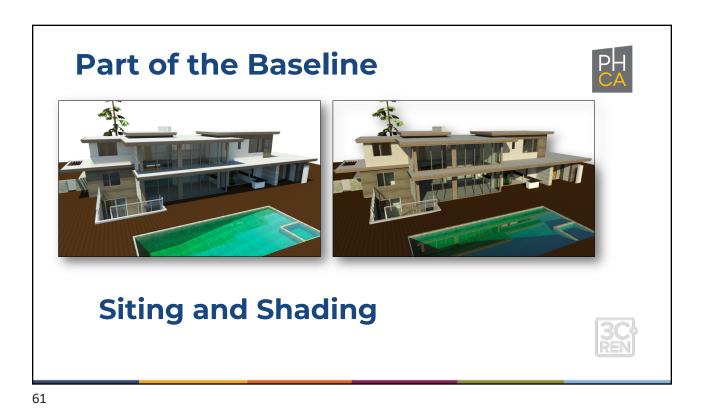


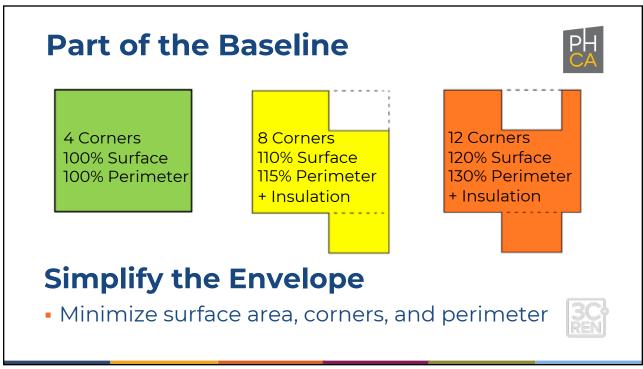




























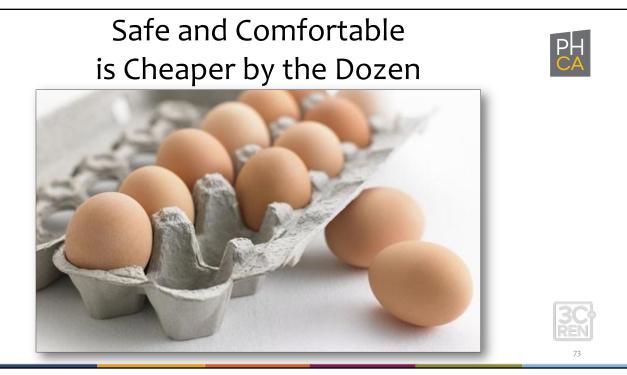


Safe and Comfortable for a Single Family



71

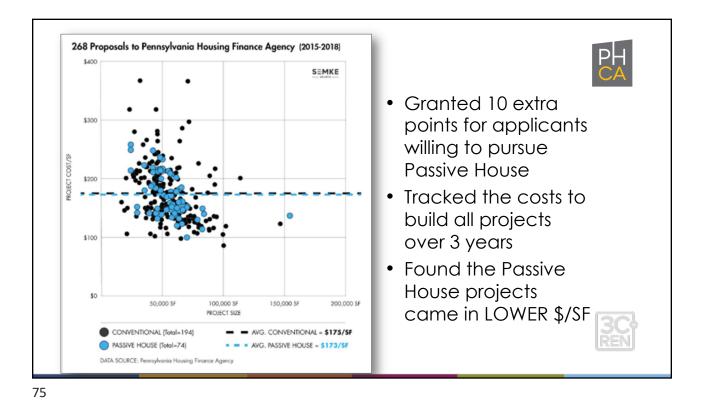
Safe and<br/>for<br/>MultifamilyImage: Comparison of the second seco

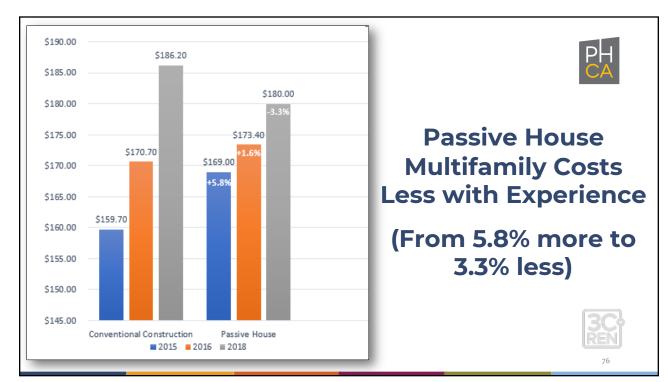


## Code versus Passive House for Affordable Multifamily

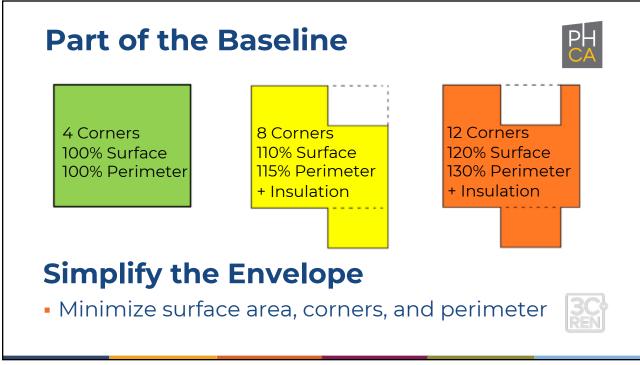
- Code Compliant airtightness, insulation, ventilation and components versus PH
  - Reduce Operational Energy by up to 70% (50% ± in CA)
  - Reduce Unwanted Airborne Pollutants and Allergens by up to 95%
  - Investment to Design and Build ±5%





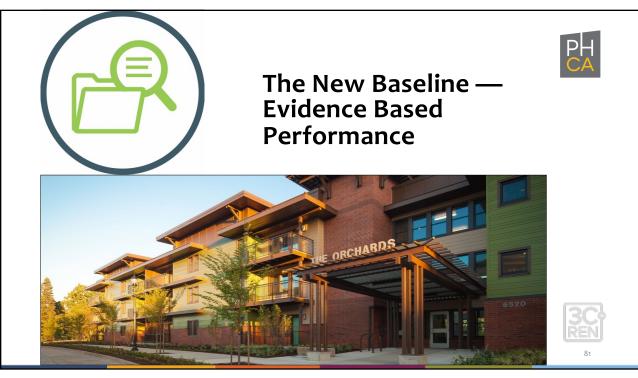






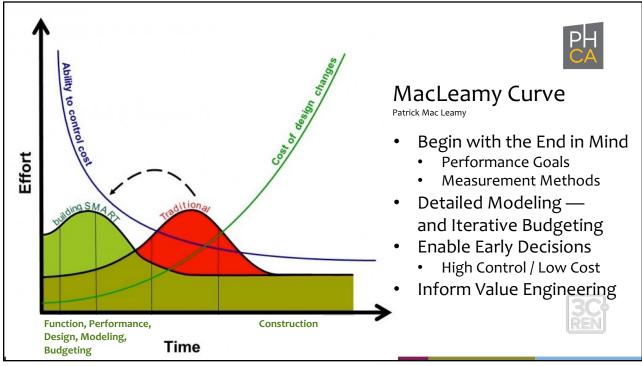
### Decorate the Envelope, Not with the Envelope Too many teams design from "outside in" and use windows to decorate. Every window should provide one or more of the following functions: The cost premium is not Contribute to daylighting just the cost of the Access a desired view window... it includes the cost of quality installation, Provide ventilation (when weather and outdoor air quality allow) and the cost in terms of diminished performance Serve as egress If a window does not serve a specific purpose, then it is a detriment to high performance and a cost premium

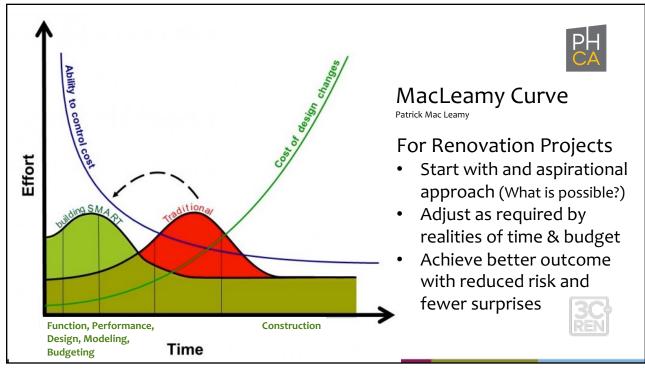


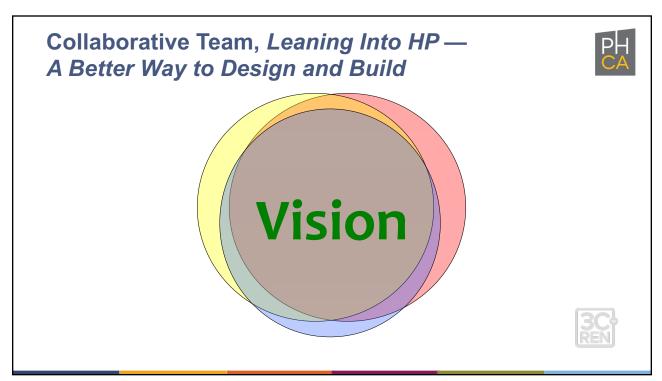


### **Monthly EpiPHany** Three Tips for Achieving High-Performance Buildings Today, "High-Performance" generally refers to: Maximum Energy Efficiency; Physical and Emotional Comfort; Healthy IAQ; Resilience; and ultimately, Zero Net Energy; Zero Net Carbon. The Passive House Planning Package (PHPP) and the recently introduced PH Ribbon (integrates embodied carbon) make it possible to deliver the owner's targets for high-performance. The three-legged stool of Early planning, Envelope first, and Aspirational goals are critical to achieving desired performance on time and on budget with minimal surprises. Early planning — You may remember the MacLeamy Curve from an earlier EpiPHany, Effort Curve When you select your team and invest in planning, modeling, and budgeting early, you enable maximum functional capabilities with minimal cost. Envelope first — The airtightness, climate specific strategic insulation, and detailed thermal bridge analysis associated with Passive House are foundational to achieving high-performance buildings. Making decisions and developing specifications for the envelope first provides significant benefits for the project. Aspirational goals: When contemplating performance goals for a new building/project, or for a renovation or retrofit, we often limit our thinking to a list of performance related tactics or the expected budget. It is far more effective to approach from a big picture perspective and consider what is potentially possible. These three tips will help you identify and achieve the high-performance goals appropriate for your project. They will also reduce false starts and surprises, increase collaboration, and minimize additional investment required to reach desired levels of performance. Achievable high-performance is the logically appropriate baseline.

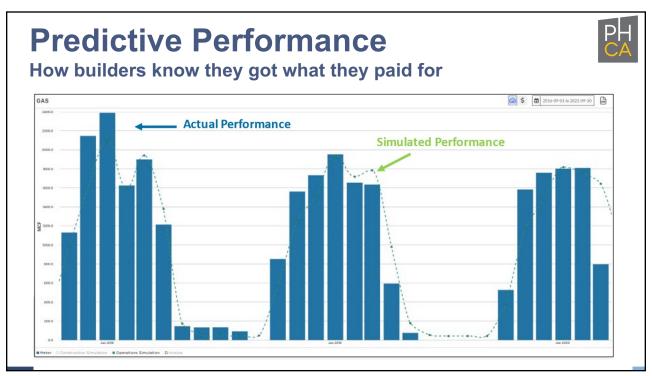


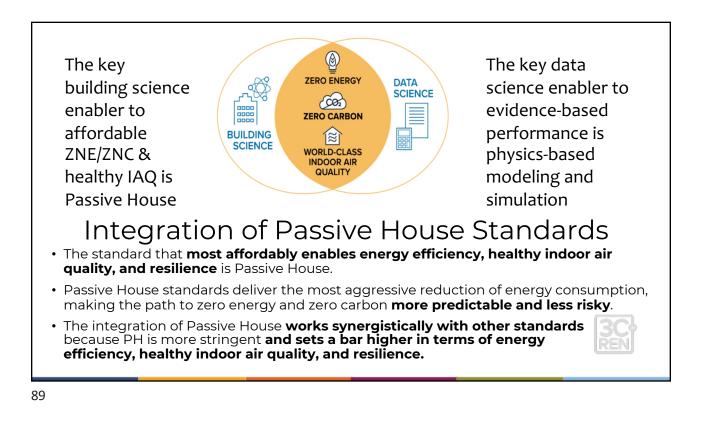








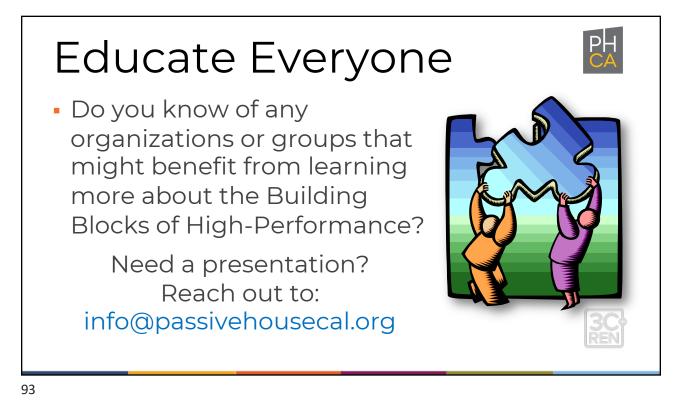




#### Design/Build Team Football Team **LEED and Cal Green** Point accumulation to reflect Qualified, <u>high-performing</u> required or desired levels of **players** at every position sustainability **within each of** • A **playbook** that integrates multiple categories the positions and actions of **Passive House** each player to work Passive House Planning together as a team and run Package (PHPP) integrates all plays to achieve specific elements into a predictive model that **forecasts specific** objectives performance Game plan to play offense PHPP iterations enable and defense to get a informed choices to achieve desired outcome against a cost effective desired specific opponent performance of a building 90









 Are you aware of, or do you have any ideas for, Pilot Projects currently being planned or on the horizon?

Perhaps we can help Reach out to: info@passivehousecal.org







# Closing

- Continuing Education Units Available
  - Contact <u>ian.logan@ventura.org</u> for AIA LU's
- Coming to Your Inbox Soon!
  - Slides, Recording, & Survey Please Take It and Help Us Out!
- Upcoming Courses:
  - Shifts in Power: Ensuring the IRA, 2022 Energy Code, and California Climate Policies Benefit the Tri-County Region (11/9 SLO)
  - 2022 Energy Code Preview for Single Family Projects (11/10)
  - Home Assessments for Decarbonization (11/15)
  - Blower Door Basics and Beyond (11/16)
  - 2022 Energy Code Preview for Multifamily Projects (11/17)

