Welcome

VISION House Seattle Cascades: A Building Science Masterpiece
Presenters

CR Herro  
VP of Innovation

Stace McGee  
Environmental Dynamics, Inc
Start with Heart
Overview

“The House that Experts Built”

CR Herro
J. Stace McGee
Ted Clifton
Green Builder Media
Felton / Tim Garrison Engineering
RainBank Rainwater Harvesting
WHY Change?

CLIMATE CHANGE

- Extreme WEATHER PATTERNS HOTTER HEAT WAVES
- DRIER DROUGHTS
- BIGGER STORM SURGES, etc
- RESOURCE DEPLETION
- RESPONSIVE DESIGN
- RESILEANCEY
- COST IMPLICATION
What would an expert in the industry do, at each point in design and building, to build a home for their grandma?

- Maintain key design features of conventional home (safe, known)
- Control cost (construction and operation)
- Improve function (health, comfort, usability)
- Challenge convention to improve total value (operating cost, resiliency)
- Make it simple (intuitive)
What we are trying to achieve

- Efficient design
  - (everything from material usage to energy, etc)
- Buildability - reproducible
- Energy
- Water
- Materials
- Technology – use of and proof of concept

• HOW TO INFLUENCE & OVERCOME INDUSTRY NORMS
Site

Cumberland, WA
Design
Design

Using topography
Using the Attic
Challenges

Lions, and Tigers, and Bears
Water Management

Zero Impact Hydrology
Power Management

Zero Electric
Zero Cooling
Zero Sacrifice
Leveraging Materials

Load Management
The Trillion Dollar Design Element
Leveraging Materials

Durability: Ready for the future
Each participant contributes to the new standard

Exemplified Materials

Exemplified Equipment

Exemplified Installation

Exemplified Controls

Monitoring and Data (Proof of concept)

New Energy Models
Impact We Hope to Achieve

• Cost / Benefit Optimization
  • Construction
  • Operation
  • Maintenance
  • Resiliency
• Proof of Concept
  • Monitoring
  • Load management
  • Best practice sharing
• Inspiration
  • Tools to incorporate in conventional construction
  • Recommended adjustments for climate
Thank you!

Join the conversation - #EEBASummit2019

Save the dates for next year:

HIGH PERFORMANCE HOME SUMMIT 2020
SEPT 29 - OCT 1 \ DENVER