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Structural Insulated Panel Association
TO ZERO
AND BEYOND

The Merging of Past, Present & Future
SIPA Annual Meeting
February 21, 2017
Topics

- Zero in North America
- RealIZE: Scaling Zero prefab retrofits
- Garver: Zero and Right-sized living
My Path to Zero

1995

2006

2007

2012

Net-Zero Energy Coalition
ZERO IN NORTH AMERICA
Global Temperature Projections for various RCP Scenarios

Source: Architecture 2030; Adapted from IPCC Fifth Assessment Report, 2013
Representative Concentration Pathways (RCP), temperature projections for SRES scenarios and the RCPs.
SLIDE MASTERS

408 projects
3,339 buildings
6,177 units

ZERO ENERGY is GROWING

ARE YOU HERE? Add your projects at http://netzeroenergycoalition.com/zero-energy-case-studies/
NEAR-TERM FOCUS

Drive early adopters to influence early majority.

EXHIBIT 3 - ADOPTION CURVE

WE ARE HERE

Innovators | Early Adopters | Early Majority | Late Majority | Laggards
---|---|---|---|---
2.5% | 13.5% | 34% | 34% | 16%

Market saturation
ZERO IS NOT AS SIMPLE AS IT SEEMS. DEFINITIONS ARE THE TOPIC OF GREAT DEBATE, BUT A SPECTRUM OF EFFORTS TO REDUCE CO2 EMISSIONS COMPRISE THE ZERO ENERGY MOVEMENT.

PARTNER ORGANIZATIONS
- DOE ZERH Program
- International Living Future Institute
  - Earth Advantage Institute
- PHIUS, PHCA, PHI International
- Thousand Home Challenge
95% of units are in projects >1 unit

2016 Inventory shows 60% increase – almost all of which is multi-unit

3,071 MULTI-FAMILY UNITS
3,106 SINGLE-FAMILY UNITS
January 2017 (sneak preview)

- 632 projects
- 4,120 buildings
- 9,775 units*

*With performance from ZNE-ready to net positive.

<table>
<thead>
<tr>
<th>ZNE</th>
<th>2015</th>
<th>2016</th>
<th>Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projects</td>
<td>407</td>
<td>632</td>
<td>55%</td>
</tr>
<tr>
<td>Buildings</td>
<td>3,331</td>
<td>4,120</td>
<td>24%</td>
</tr>
<tr>
<td>Units</td>
<td>6,177</td>
<td>9,775**</td>
<td>58%</td>
</tr>
<tr>
<td>Multifamily</td>
<td>3,071</td>
<td>6,405</td>
<td>208%</td>
</tr>
<tr>
<td>Single-family</td>
<td>3,106</td>
<td>3,370</td>
<td>108%</td>
</tr>
</tbody>
</table>

**Not including 7,500 planned units in Whisper Valley, Austin, TX.
Local artisan food production facility
First of its kind international micro-lodging showcase
Locally owned and operated café and restaurant
Indoor & outdoor event spaces
Recreation with bike path, creek, 20 acres open space, wellness center
Opening 2018
Site Plan
MICRO LODGING

- Redefining Housing to “right-sized”
- 100-700 Sq Ft
- 50 different designs
- Overnight lodging
- Low Cost Homes
- Low Energy Bills – Targeting zero
- Low Maintenance
- Beautiful and Livable
1st Microhome Showcase

TYPES OF STRUCTURES

- Modular
- Panelized (most w/SIPS)
- RVIA-Certified (Tiny Homes)
- Pre-defined Plans for site-building
- Shipping Containers

Local technical college construction program completed 3 – 3 more under construction
REALIZE: Goal and Mission

Create a business model similar to Energiesprong in the Netherlands to catalyze industry to develop industrialized, deep energy retrofits for the US residential market. VIDEO
Value Proposition

QUALITY
Net-zero energy homes with long performance warranties

NON-INTRUSIVE
Refurbishment within a week to 10 days

AFFORDABLE
Financed through energy cost savings

LOOK & FEEL
Attractive and comfortable homes
RealIZE Now and Next

Feasibility (1H 2017)
- Partnering with City of San Francisco & NY State
- Technical, Process, and Cost Feasibility
- Testing demand and supply chain

Foundation (2017)
- Establish organization, partnerships, brand
- Begin Prototyping

Pilots (2018)
- Build & Test 2 Pilots
MOMENTUM THROUGH LEADERSHIP
The Net-Zero Energy Coalition is a change agent, catalyzing a transformation of the built environment to zero energy by uniting the industry and accelerating the market.
Power of a Coalition
CAMPAIGN
✓ Inspire building professionals to start building zero, today

HUB ZERO
✓ Enable them to act by providing connections to people and resources for building, designing, and selling zero
JOIN THE MOVEMENT

Net-Zero
ENERGY COALITION