



ZERO ENERGY NOW! PROGRAM

VECAN Conference – December 5, 2015

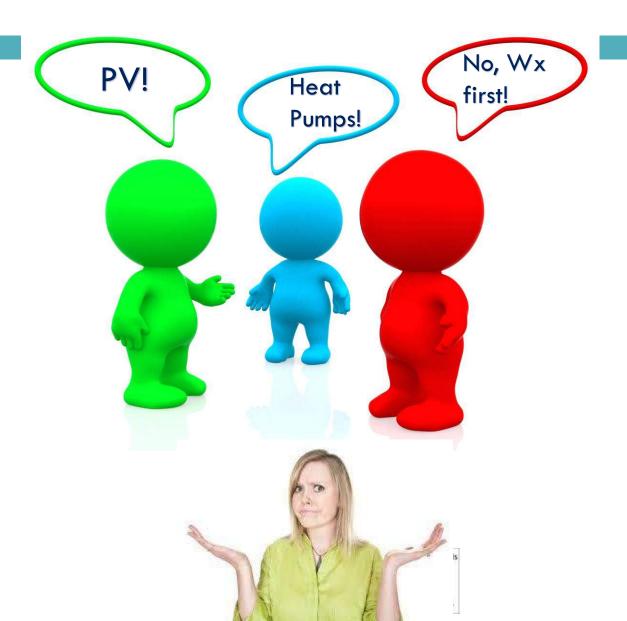


Vermont's Current Energy Market

- Experienced and committed Home Performance contractors (BPPA)
- □ Robust PV marketplace (REV)
- Cold Climate Heat Pumps and growing markets
- Financing
 - Heat Saver Loan (0% to 4.99%, \$35k, up to 15 years)
 - NeighborWorks Loan
 - VSECU V-Green Loans
- □ Efficiency Vermont infrastructure



Customer Confusion



The Solution – Zero Energy Now! Program

- □ Comprehensive approach:
 - Energy efficiency reduce heating loads
 - Heat pumps or biomass fossil fuels reduction
 - Solar PV on-site energy production
- □ One "general contractor"
 - Customer analysis and presentation of RE & EE options
 - Coordinated subcontractors
- □ Financing to provide "positive cash flow"
- Offers "zero energy" approach to get off fossil fuels



If you are a former CVPS customer you could get up to \$5,000 in extra incentives!



Zero Energy Now!

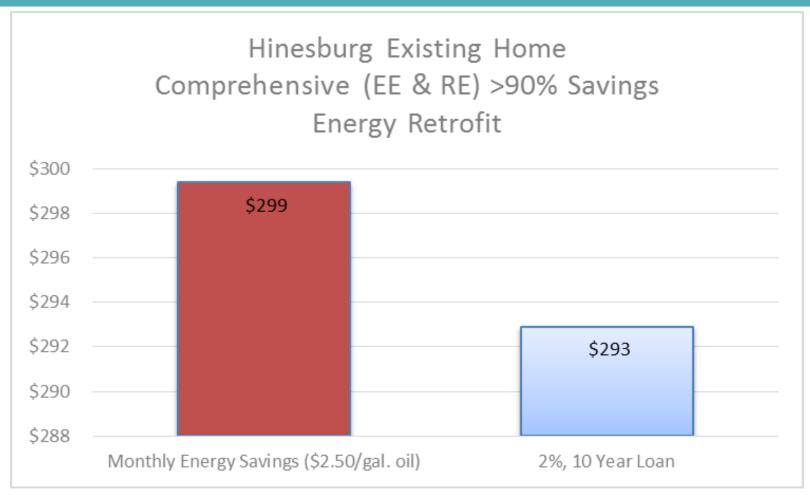
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Hinesburg Case Study

| Recommendations for Weatherization and Energy Work | | Estimated Cost | |
|--|--|-----------------------|------------|
| A. | Building Shell - insulation, air sealing, fans & audit | \$ 6,146 | |
| В. | Heat Pumps | \$ 13,500 | |
| C. | Solar PV | \$ 1 <i>7</i> ,100 | |
| D | Heat pump domestic hot water | \$ 2,200 | |
| | Total | | \$ 38,946 |
| | Potential Credits/Incentives (EVT & PV; no CVPS) | | \$ (7,113) |
| | Net Project Cost | | \$ 31,833 |



Hinesburg Case Study Cash Flow





ZEN! Goals

- To develop a <u>comprehensive approach</u> to treating Vermont buildings holistically in order to <u>reduce purchased energy use by 50-100%</u>, while transitioning off of fossil fuels and onto renewables, supported by efficiency.
- 2. To develop an alternative yet <u>complimentary market-based approach</u> to Efficiency Vermont's programs, led and driven by BPPA.
- To test the viability of the comprehensive approach through a challenge program and <u>deliver at least 50 participating homes in 2016</u>.
- To <u>generate awareness, interest and a "buzz"</u> among homeowners; to grow market excitement, and accelerate activity beyond early adopters.
- To produce a <u>training</u> and then offer it (in 2017) to building, renewable and efficiency contractors; suppliers; designers; officials and others in order to provide the capacity to deliver the comprehensive approach.
- To build the experience and capacity to <u>meet Act 56 Tier 3</u> Energy Transformation goals.



Program Elements

- Holistic energy modeling tool development (EUSAVE)
- Savings Guarantee
- □ 5-10 BPI Certified Contractors
 - Tool training
 - Sales training
- Marketing, promotion, case studies, create "buzz"
- Implementation
 - **2016**
 - Utilize Efficiency Vermont's infrastructure (up to \$2,000 incentives)
 - Bonus up to \$5,000 comprehensive incentive (in CVPS territory)
 - Building Energy Label



Program Standards (TBD)

- At least 10% reduction in heating load
- Reduction in annual MMBtu/year of total fossil fuel and off-site electric energy usage by at least 50%
- Renewable heating system designed to meet at least 50% of the load of the house
- Offer any combination of energy efficiency and renewable energy improvements once the above thresholds are met.



Potential Impacts

- □ H.40/Act 56 and Tier 3 (Energy Transformation)
- □ GMP eHome Program
- □ PSB Heat Pump Proceedings
- Meeting State Energy Goals
 - 80% of homes by 2020
 - □ 90% renewable by 2050





Help Us Meet Our ZEN! Goals

- □ How can we spread the word?
- What local opportunities are there to pursue?
- □ How should we reach our target audience?
- What can you do in your town to encourage participation?





Q&A

Malcolm Gray
BPPA Board Chair

info@BPPA-VT.org

802-477-5249





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