

Increased Energy Efficiency

- Reduces \$s spent on imported fuels
- Increases quality of life
- Saves money
- Reduces GHG emissions
- Decreases need to build power plants
- Creates jobs



Lessons Learned

Original assumption:

Main barrier to action is lack of money.

Research demonstrated:

Key issue is lack of demand.



Lack of Demand

Due to combination of:

- (1) Bewilderingly complex process (improvements, incentives & financing)
- (2) Debt aversion
- (3) Invisible benefits



What Is Needed

(1) Demand: Programs that offer a seamlessly coordinated process.

(2) Money:

- Financing programs that provide customer-friendly, unsecured loans &
- Funding for demand programs.
- (3) Policies: Monetize EE improvements.



Monetizing EE Upgrades

- Include EE in appraisals
- Train realtors
- Institute a building-rating system
- Require time-of-sale efficiency disclosure
- Require post-improvement follow up



Driving Demand

How:

- Reach the "low hanging fruit"/early adopters
- Promote EE benefits
- Emulate best practices (e.g., NWWV HEAT Squad)
 - Provide a seamless path through the upgrade process.
 - Incorporate cashflow-positive (when possible) financing.
 - Increase "neighbor-to-neighbor" promotion.



Financing EE Upgrades (1)

Conclusion: Money is available.

Issue: What facilitates homeowner access to this money?

Options:

- Reduced lender risk (e.g., loan loss reserve).
- Centralized revolving loan fund.
- On-bill (utility) financing (e.g., right to disconnect lowers losses).



Financing EE Upgrades (2)

Conclusion: Borrowers usually prefer quick, unsecured, cashflow-positive loans.

Options:

Increased loan term +/or lower interest rates.

Examples:

Keystone Help

\$1-15K unsecured for up to 10 yrs @ 2.99% if use qualified auditor & approval w/in 24 hrs.

• FHA Power Saver (in pilot phase, n/a in VT in '12)

Up to \$7500 in unsecured for up to 15 yrs w/ 90% FHA guarantee.



Paying for EE Programs

Conclusion: This need is generally unrecognized.

Issue: How to fund?

Options:

- State or local government subsidizes.
- Philanthropy supports.
- Lenders fund.
- Community invests (e.g., revolving loan fund, loan loss reserve, etc.).
- Those who benefit from programs pay (e.g., contractors, suppliers, etc.).



Success IS Possible

- NeighborWorks of Western Vermont: H.E.A.T. Squad program
 - Provides a lot of customer support.
 - Promoted using conventional marketing and neighbor-to-neighbor outreach.
 - 49% conversion rate (audit to upgrade).
 - 250 homes in 1st 6 months (population 61K).



Everyone Has a Role

Questions

- How many people have invested in EE?
- Of these, how many would be willing to serve as "neighborhood ambassadors"?
- How many people are interested in investing in EE in their own homes? In their communities?

Other

- Comment on draft DPS Comprehensive Energy Plan (due 11/4/11)
 - Adoption of alternative indicators (Vol. 1, p. 3)
 - Thermal energy (Vol. 2, p. 175)
 - Other thermal fuel sources (Vol. 2, p. 224)



Just as a bird requires two wings to fly, energy efficiency requires

(1) Effective financing.

AND

(2) Strong customer demand.

Marianne Tyrrell Vermont Law School Mtyrrell@vermontlaw.edu

