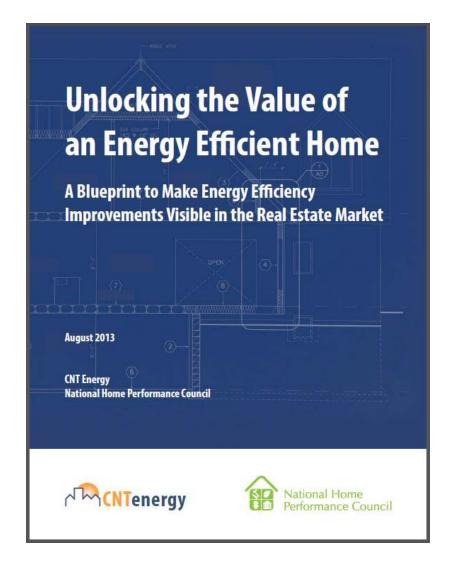
Valuing and Marketing High-Performance Homes in DC & Beyond



Cliff Majersik, Executive Director Institute for Market Transformation



The Visible Value Blueprint



- 1. Document Upgrades
- 2. Disclose Inventories
- 3. Continuing Education
- 4. Green MLS Usage
- 5. Appraiser Designed Valuation Studies
- 6. IT Solutions: HPXML
- 7. Work with Lending Institutions

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Step One: Document Upgrades

- Third-party verified information critical to the real estate process
- New home programs have led the way
- National programs/guidelines for existing homes are growing fast:
 - Home Performance with ENERGY STAR
 - Home Energy Score
 - BPI-2101: Standard Requirements for a Certificate of Completion for Residential Energy Upgrades



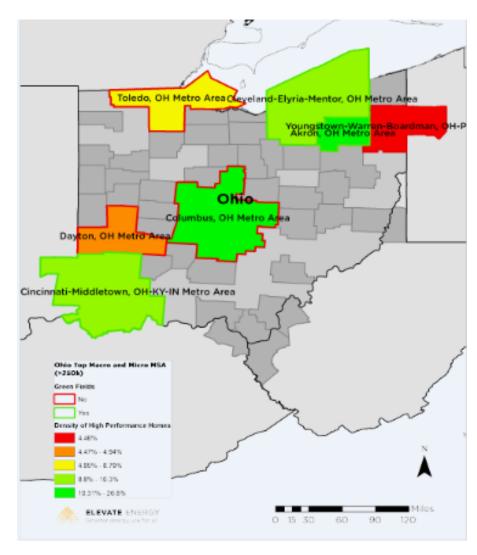






Step Two: Disclose the Inventory

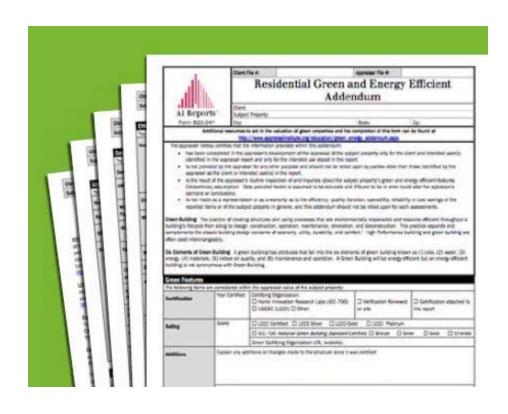
- Maps to show density of high performance homes
- How many homes are eligible for Green MLS fields?
- Use geographical units that are meaningful to real estate
 - Metro areas (for MLS)
 - Counties (for Boards of Realtors)





Step Three: Appraiser Designed Valuation Studies

- Small sample size
- Hyper-local
- Data appraisers can use in their assessments
- Listing Agent engagement



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Step Four: Real Estate and Appraiser CE Classes

- CE credits are key to educating Realtors and appraisers
- Regulated by each state's licensing body
- Must have a focus on consumer protection
- Sample eligible content:
 - Building Science
 - Building codes
 - Inventories/Densities
 - Rebates
 - Green Fields



Agenda

- Framing the Issue
- Activities in the District of Columbia
- Opportunities for Other Cities

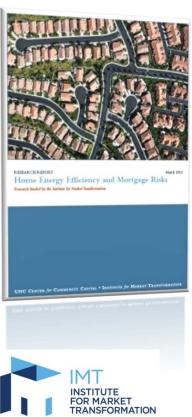
Home Energy Efficiency and Mortgage Risks

Question: Is residential energy efficiency associated with lower mortgage default & prepayment risk?

Sample: 71,000 loans in 38 states

- 29,994 ENERGY STAR homes
- 46,118 Control Group homes

Controls for: home age & size, borrower credit score, LTV ratio, loan type, median neighborhood income, etc.

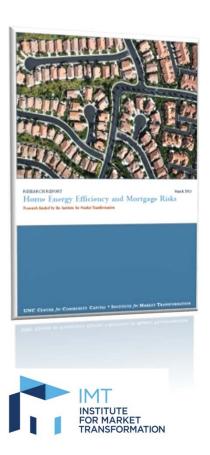






Findings

- Default risks on average 32% lower for ENERGY STAR homes, controlling for other loan determinants
- More efficient home → lower default risk
- Mortgage on ENERGY STAR residence
 27% less likely to be prepaid
- Results statistically significant with 99.9% confidence level





Value Premiums for Green Homes

Several recent studies:

- 1) The Value of Green Labels in the California Housing Market (2012)
- 2) Selling into the Sun: Price Premium Analysis of a Multi-State Dataset of Solar Homes (2015)
- 3) An Early Look at Energy Efficiency and Contributory Value (2015)



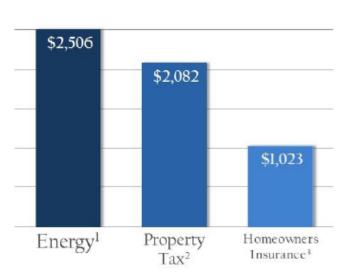


The SAVE Act

Why We Need It

- Spark job creation, innovation in housing & manufacturing
- Enable better mortgage underwriting
- Reduce utility bills for American homeowners
- Provide affordable financing for home energy improvements

Average U.S. Homeowner Costs: 2012



Sources: EIA Annual Energy Outlook 2014; 2012 American Community Survey; National Association of Insurance Commissioners, 2012 Annual Homeowners Insurance Report

The SAVE Act: How It Works

Would provide guidance to HUD to issue updated underwriting and appraisal guidelines for borrowers who submit a qualified home energy report.

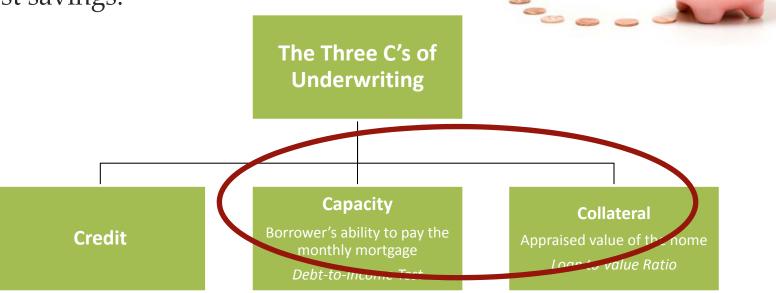
Debt-to-Income Loan-to-Value Adjustment

Consumer Information

Incorporating Energy Efficiency into Mortgage Underwriting

Mortgage Underwriting:

- Borrower capacity is adjusted for energy costs.
- Value of the home reflects the energy cost savings.



Energy "blind spot"

Incorporating Energy Efficiency into Mortgage Underwriting

Collateral:

- Residential appraisers rarely account for energy efficiency:
 - Lack of awareness, expertise, incentives
 - Appraisers rely on "comps"
 - Little agreement on how to value energy efficiency.
- New approach would give underwriters the option of adding the NPV of the energy savings to the appraised value when calculating the Loan-to-Value ratio:





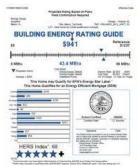


Appraisal Report:

Requires a *Certified Appraiser* where homeowner submits an energy report



HERS or other qualified energy report (optional)



Green Home Sales Transactions: Best Practices



Graphic courtesy of NAR www.greenthemls.org

So What's Happening in the District?

- Grant from District Department of the Environment to promote green homes and transparency in real estate transactions
- Partnership among IMT, Elevate Energy, and RealEstate Business Intelligence
- 1st public-private partnership of its kind

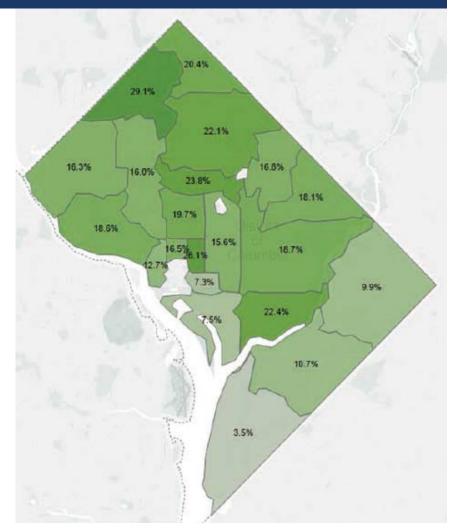






Key Findings

- High-performance homes exist in all District zip codes
- In 2013, HPHs accounted for 18% of total residential home sales in the District
- Homes that used "green" fields in MRIS performed better on key market indicators, such as sales price



Graphic courtesy of RBI: www.rbintel.com/

Working with Local Utilities



Notice of sale alerts the utility







Make energy efficiency improvements

All improvements are tracked and captured in real estate listing

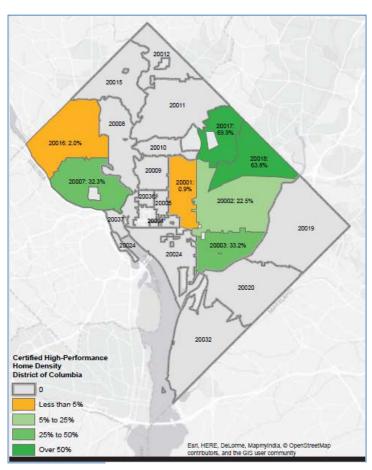
Utility releases last year of consumption and cost data to populate real estate listing



What Your City Can Do

- Engage local MLS, utilities, appraisers, and Realtors
- Conduct HPH inventory
- Educate homeowners and professionals on benefits of green homes
- Great resource: Elevate Energy's Visible
 Value Blueprint

(http://www.elevateenergy.org/value-high-performance-homes-campaign/blueprint/)



Map courtesy of Elevate Energy: www.elevateenergy.org/

Summary