

A Look Into Low-E Storm Windows as a Potential EE Opportunity

2017 ACEEE Market Transformation Symposium



Who is Efficiency Vermont?

- Statewide energy efficiency utility
- Sustainable energy solutions for all Vermonters
 - Education
 - Services
 - Rebates and financing



How We Have Looked at Low-E:

- Market Pilot
- Consumer Insights Survey



2015 R&D Pilot: Low(-E) and Behold



Partners



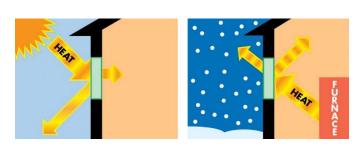
- Larson Manufacturing, D+R International
- Home Depot
 - Bennington, Rutland & Williston VT stores participating
- Lowe's
 - Essex & South Burlington stores participating





The Opportunity for Low-E In Vermont

- Customers interested in window options
- Lower cost than total window replacement
- Low-cost entry point & DIY
- Alternative for older/historical building stock
- DOE / AERC performance ratings / independent testing





Pilot Design

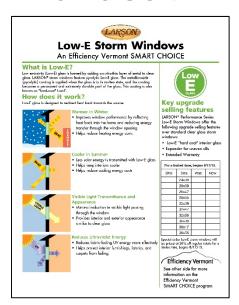


- Full markdown of Low-E storm window incremental cost to clear glass (regular) storm windows
 - Assess Market Lift
 - Raise awareness of low-cost alternative
 - Survey participants
- Promotional Period:
 - August 17 October 12, 2015



Marketing

Handout



Sales Staff Pocket Reference Card

Survey



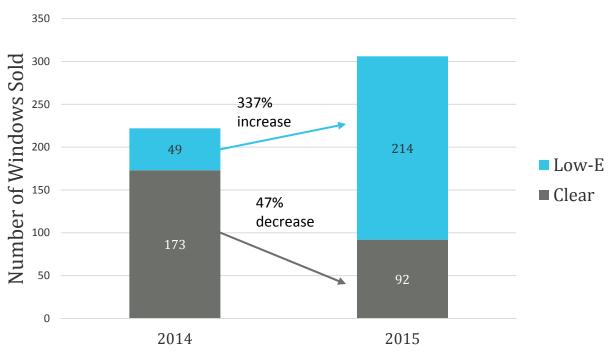
Efficiency Vermont ABOUT LOW-E STORM WINDOW INSTANT DISCOUNTS Limited time only folder could leat until early October 2015, but will only be residuely while applies taily Customers should purchase windows or place special orders as soon to possible the reason find a street of the street of th

Stack-Out





Results - Overall Sales



- 337% Increased sales lift of Low-E storm windows Year over Year
- 47% Decrease in market share of clear glass YOY
- Overall lift in storm window category sales



Pilot Results



- First Low-E Storm Incentive Pilot
- Successfully demonstrated market impact
 & lift
- Utility outreach & marketing activities had impact
- Opportunity to engage DIY, low- to moderate-income groups
- Customer Survey



Low-E Storm Window Market Characterization



Objectives

- 1. Measure Vermont homeowners' awareness, knowledge, interest and adoption of storm windows; specifically Low-E storm windows.
- 2. Identify the motivators and barriers surrounding storm window adoption.
- Gauge the level of impact Efficiency Vermont rebate programs have on Vermont homeowners' likelihood to purchase Low-E storm windows.



Methodology

- 10-minute online survey
 - November 16th November 24rd 2016
- Sample obtained via Qualtrics
- 316 completed responses
 - Error Margin (95% CI): +/- 5.5%

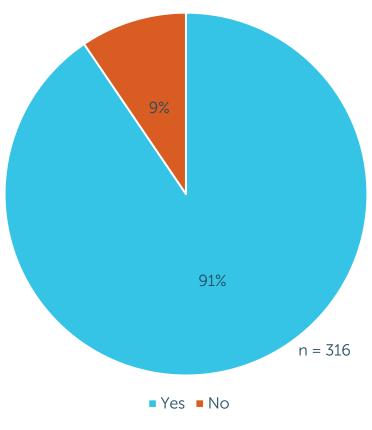


Storm Window Target Market

91% of respondents qualified as Efficiency Vermont's target market for storm windows.

The target market for storm windows was defined as anyone who:

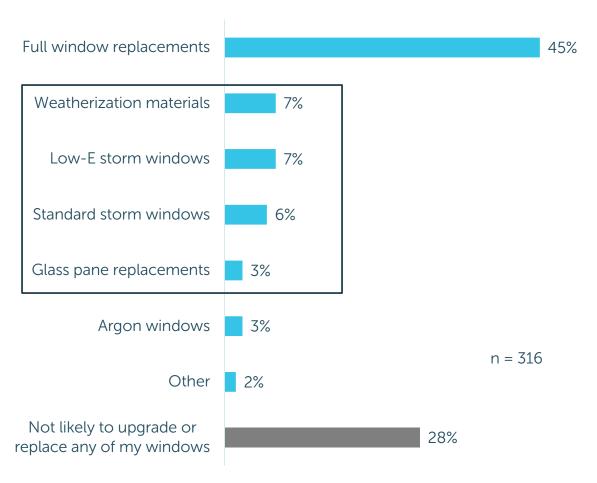
- Uses workarounds to compensate for less efficient windows (Q9)
- Received a recommendation from a professional to replace or upgrade their windows (Q9)
- Has concerns with their current windows (Q10)
- Has a home with single pane or older windows (Q12 & Q13)
- Has interest in replacing or upgrading their windows (Q14)





Window Upgrade/Replacement Consideration

23% of respondents would select a low cost alternative over full window or argon window replacements.

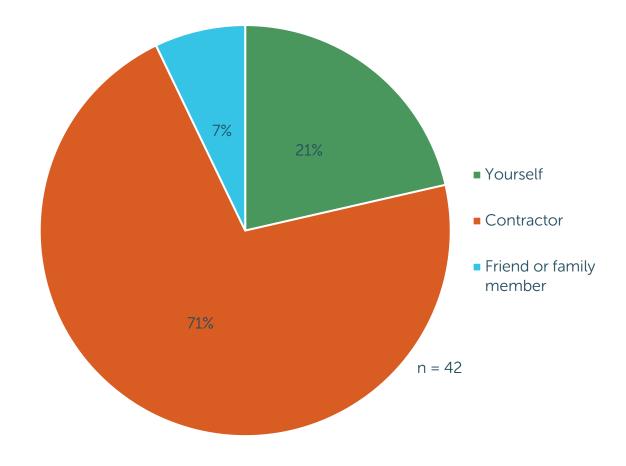


Q27. If you were to upgrade or replace your windows, which of the following would you be most likely to purchase?



Storm Window Installer

71% of respondents who would consider Low-E storm windows would likely have a contractor install them.





Key Takeaways

- 1. 9 out of 10 Vermont homeowners would benefit from installing storm windows.
 - a. 41% own at least one storm window. The vast majority have them installed in multiple rooms in their home.
- Only a third of the market is even aware that Low-E storm windows exist.
- 3. An opportunity may exist for Efficiency Vermont to work with contractors to sell and install Low-E storm windows.
- 4. When customers understand the Low-E storm window value proposition, their likelihood to purchase increases.



Next Steps



EM&V and Program Design

- Currently developing a TRM Characterization
- Exploring different program delivery options
 - Home Performance
 - Direct Install
 - Low/Moderate Income Programing
- Continue to Learn
- Stay involved with AERC and other national/regional conversations.



Thank you!

Jenna Pugliese

JPugliese@efficiencyvermont.com 802-540-7802

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