A Simplified Approach to Visualizing Household Retrofit Potential

Jenny Edwards
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Minneapolis, MN
HOME ENERGY IMPROVEMENT INDEX

YOUR CURRENT SCORE:

65

IMMEDIATE POTENTIAL:

90

100 LONG-TERM POTENTIAL
EFFICIENT HOUSE

0 INEFFICIENT HOUSE

OUR DIAGNOSIS:

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>POINTS</th>
<th>SCORE</th>
<th>RECOMMENDATION</th>
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Ice Dam Problems?
Get ahead of ice dams and water damage. Community Energy Services has the solutions for Minneapolis homeowners!
Learn More
CEE’s Pilot Residential Energy Program

+ Oct ’09 – Jun ‘11: 4,666 home visits
+ Comprehensive (small as well as large opportunities)
+ Focus on homeowner, not just the home
+ Cost-effectiveness requirements
The Kitchen Table Conversation
CEE’s Energy Feedback Reports

Flame Index
(Btu/sq.ft. - HDD/year)

Spark Index
(KWh/year/sq.ft.)

Monthly Natural Gas Use

Monthly Electricity Use

*Using average rate of $0.70 / therm.

*Using average rate of $0.11 / KWh
Home Energy Score Pilot Site

HOME ENERGY SCORE

Address: Minneapolis, MN 55414
Total Energy Use: 392 MBTU/year
Home Size: 2,520 square feet
Air Conditioning: Yes

Score with Upgrades: 6
Estimated Annual Savings: $1,278

Uses More Energy: 1 2 3 4 5 6 7 8 9 10 Uses Less Energy

Top 20% of similarly sized homes score here or better

Energy use reported in Million British Thermal Units (MBTU). Estimated savings reflect the amount a homeowner will save on their annual utility bill if all recommended improvements are made. Both energy use and savings estimates assume that 2 adults and 1 child live in the home. Your actual energy use and savings will depend on how you maintain your home, how many people live there, your day-to-day habits and weather. To learn more about how to save energy and money in your home, as well as more about the home energy score, visit: homeenergyscore.gov

Assessor #: 101076  Assessment Date: 02/10/2011  Label #: 1908589
Minnesota Pilot Results

“Zone of Unattainability”

Current Score

Potential Score

Pilot Homes

Score

1

1 2 3 4 5 7 8

1 10

154
Home Energy Label Design Principles:

+ Focus on the asset – the “long term investments”

Credit: Univ Wisc Extension
Home Energy Label Design Principles:

+ Simple to Implement and Communicate
Home Energy Label Design Principles:

+ Prescriptive Approach
Home Energy Label Design Principles:

+ Quantitative Rigor
Home Energy Label Design Principles:

+ Offer the opportunity to get a perfect score
All Homes can get a perfect score

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Why does house style matter?

Type of House:

Built 1910
1.5 Stories

Attic Configuration

Wall Cavity
How a Score is Calculated

- Points are based on house style
- Score is based on your home

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Average Age of Twin Cities Metro Homes
Create a hopeful kitchen table conversation

“This is how close you are to your home’s full potential!”
Thanks!

CEE Development Team:
Dave Bohac, Carl Nelson, Lester Shen, Isaac Smith

More info at:
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