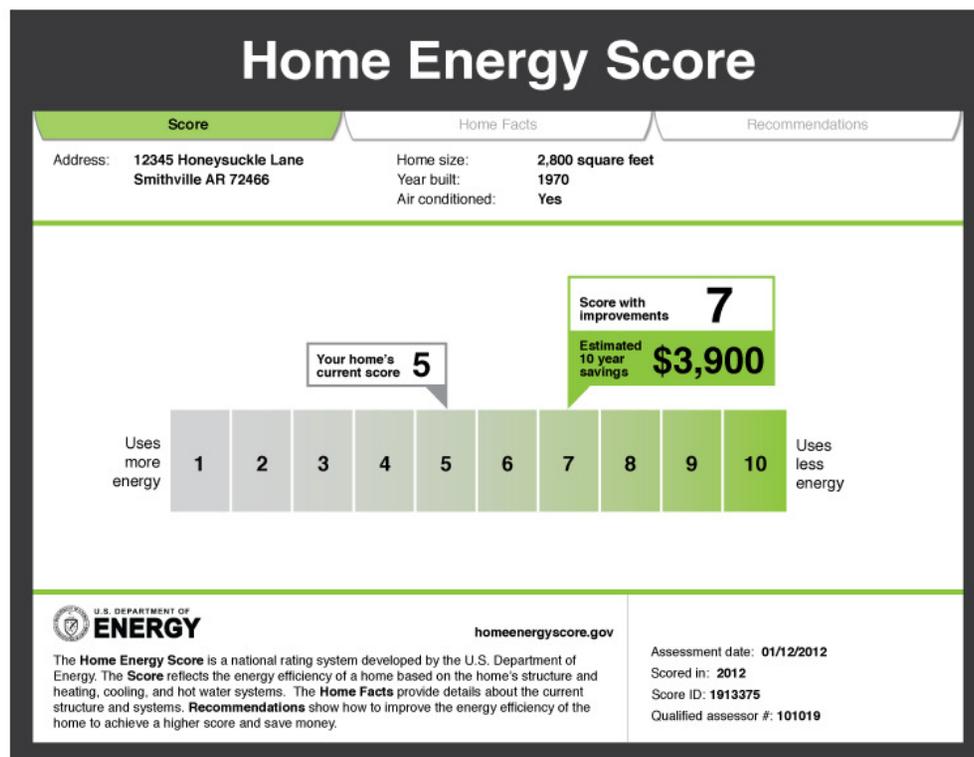


# Home Energy Score Program

## Webinar for the American Gas Association

Joan Glickman, US DOE  
Jerome Ryan, NJNG  
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July 30, 2013  
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# Home Energy Score



## ✓ MPG rating for homes

- Standardized method for assessing the energy performance of a home's major energy systems and envelope

## ✓ Low cost service

- Takes about 15 minutes if in concert with other assessment; less than 1 hour if stand-alone
- Not intended to replace a full energy audit or diagnostics

[www.homeenergyscore.gov](http://www.homeenergyscore.gov)

# Home Energy Scoring Tool

- ✓ **Reliable, transparent, free, and easy to use**
- ✓ **Assessment requires 1 hour or less to complete**
  - “Opportunity Assessment” vs. investment-grade audit
- ✓ **The Home Energy Score calculation is based on **Source Energy****
- ✓ **Creating additional **customizable features****
  - Upgrade score can now reflect program/assessor’s specific energy improvement recommendations

**Session Id:** 1922531  
**Address:** 12345 Honeysuckle Lane  
Smithville, AR 72466

- ✓ **About this Home**
- ✓ **Roof, Attic & Foundation**
- ✓ **Walls**
- ✓ **Windows & Skylights**

Systems

[View Summary](#)

[Back to Dashboard](#)

Home Energy Scoring Tool

Session Id: 1922531  
Address: 12345 Honeysuckle Lane  
Smithville, AR 72466

**About this Home**

This tool is only for single family homes and townhomes (see tool tips for party wall insulation). It cannot be used for mobile homes or multifamily housing.

Assessment date: 01/03/2012

Comments:

**Home details**

Year built: 1970

Number of bedrooms: 4

Stories above ground level: 2

Interior floor-to-ceiling height: 8 feet

Conditioned floor area (all stories combined): 2800 square feet

Direction faced by front of house: North

Was a Blower Door test conducted on this house? Yes No

Air leakage rate: 3800

[Save & Exit](#) [Next](#)

Home Energy Scoring Tool

Session Id: 1922531  
Address: 12345 Honeysuckle Lane  
Smithville, AR 72466

**Heating**

Type of heating system: --Select--

**Heating System Efficiency**

Year installed: N/A (Use efficiency field) - OR - Efficiency value: [ ]

**Cooling**

Type of cooling system: --Select--

**Cooling System Efficiency**

Year installed: N/A (Use efficiency field) - OR - Efficiency value: [ ]

**Ducts**

Duct location: --Select--

NOTE: Answer the three duct questions ONLY if the house has forced-air heating or cooling ducts.

Are the ducts insulated? Yes No/Don't Know

Are the ducts sealed? Yes No/Don't Know

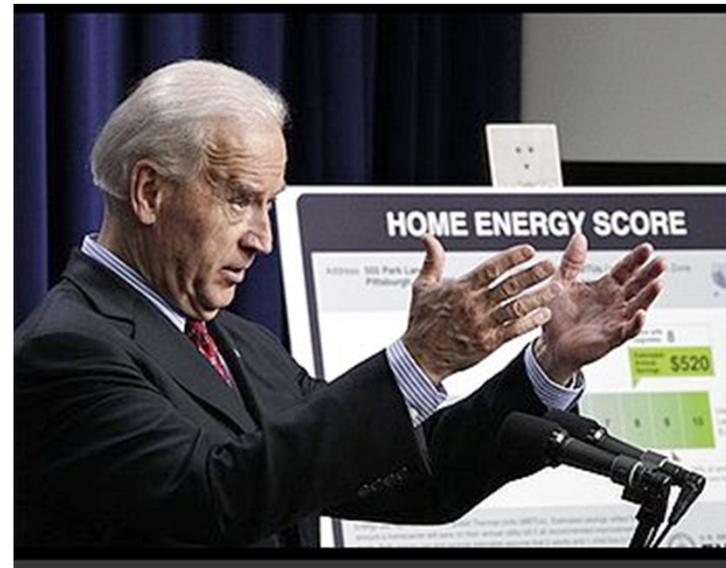
**Hot Water**

Water heater fuel: --Select--

## Home Energy Score: A key product of the Vice President's “Recovery through Retrofit” initiative

Create a nationally standardized  
“miles-per-gallon” home score

- ✓ Standardized Software Tool,  
free to users
- ✓ Disseminated by local providers
- ✓ Nationally supported program  
to achieve scale and maintain  
quality



Home Energy Score website: [www.homeenergyscore.gov](http://www.homeenergyscore.gov)

# Accomplishments

- ✓ **30 Partners**
  - About half are actively scoring homes
- ✓ **5000+** homes scored during 1<sup>st</sup> year
  - Majority since September 2012 when program ramped up
- ✓ **165+** Qualified Assessors
- ✓ **CT, MO, FL** and other states interested in statewide adoption
- ✓ **6** third-party licensees of Scoring Tool Application Programming Interface (API)
- ✓ Outreach to our Partners
  - Monthly Partner Webinar
  - Periodic Qualified Assessor calls
  - Account Manager support
  - Partner Portal on web site (coming soon)
- ✓ Significant improvements to Scoring Tool and scoring methodology – available September 2013

## Home Energy Score Web Counter

**5 1 1 8**

*As of July 21, 2013*



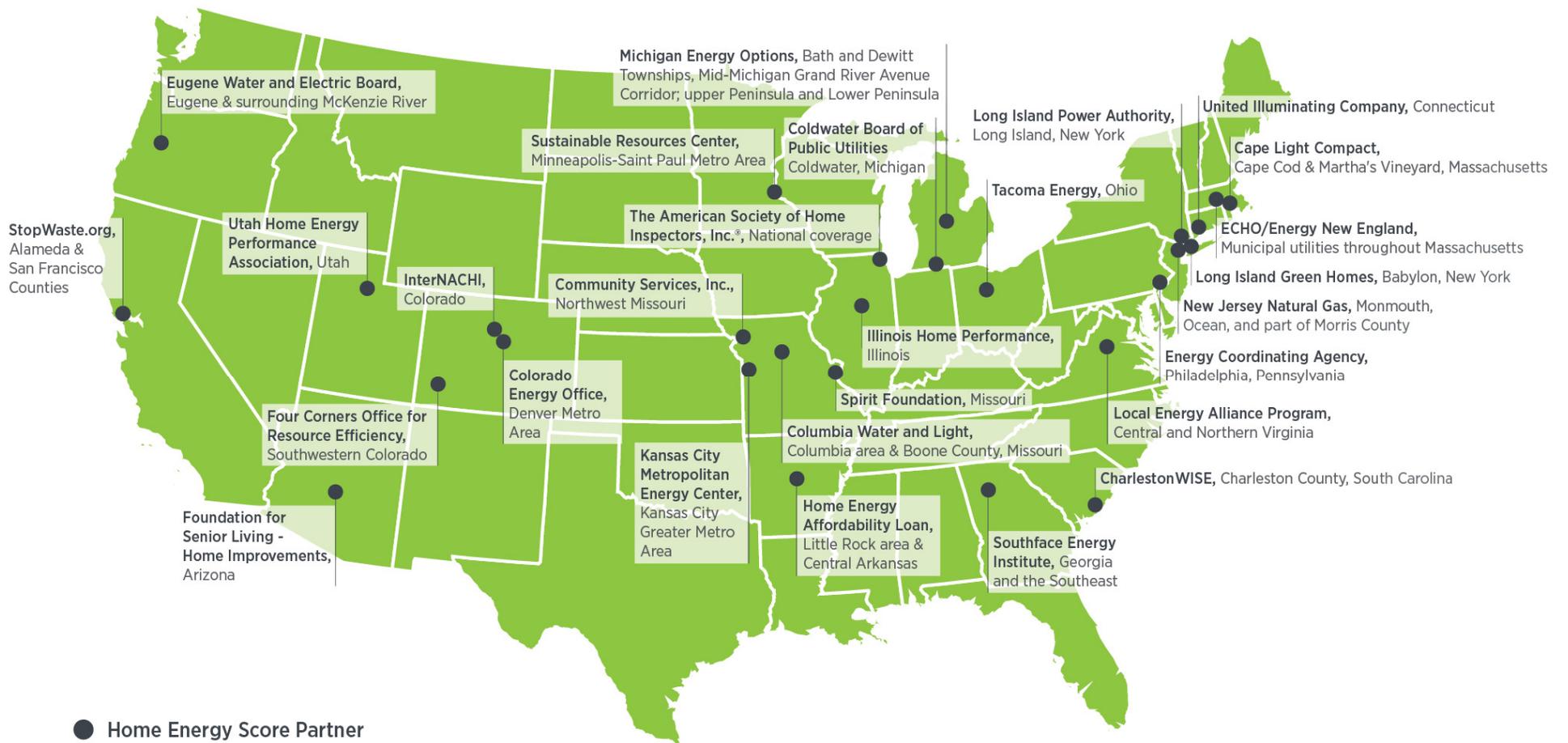
**HOW DOES YOUR HOME COMPARE?**

Find out with  
U.S. DEPARTMENT OF ENERGY  
**Home Energy Score**

▶ [Click to learn more](#)

# Partner Implementation

**Utilities**    **State and local governments**    **Non-governmental organizations**    **Home inspectors**

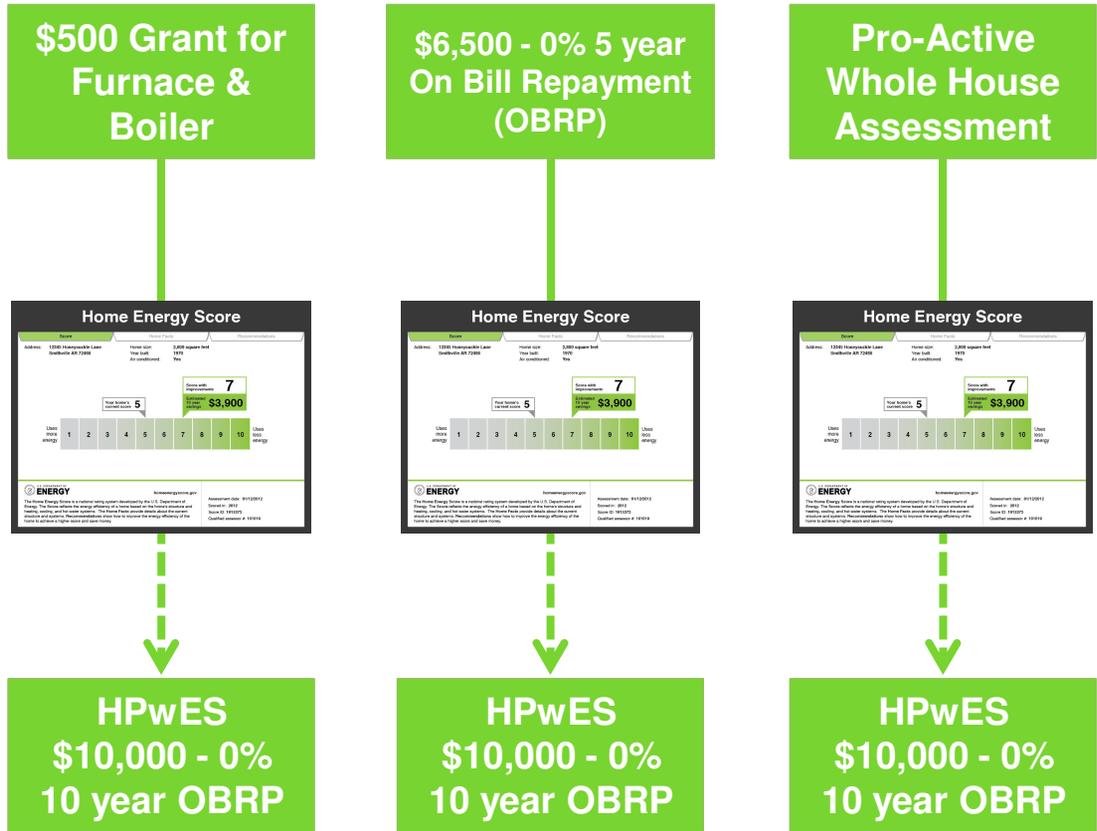


Home Energy Score is a flexible tool that can be integrated into a variety of different utility programs and efforts.

A few examples of ways to provide the Score:

- ✓ Equipment incentives programs (NJNG)
- ✓ Existing energy efficiency auditing programs
- ✓ Direct install programs
- ✓ New customers/Point of sale

# Example #1: NJ Natural Gas



- ✓ Home Energy Score is used to **motivate homeowners** to undertake second sale
- ✓ ~**2,300 scores** have been completed to date
- ✓ **Cost effective** data collection mechanism

Customers are required to have a no-cost audit performed to qualify for either the \$500 grant or the \$6,500 OBRP. The DOE Home Energy Score is now presented with recommendations specific to our program.

- ✓ We use the **DOE Home Energy Score** as a **motivator** to encourage customers to take advantage of our On-Bill Repayment Program (OBRP) and further increase their Energy Savings.
- ✓ The Auditor Message is *“you have taken a great first step”*.
- ✓ The **Score** shows customers how to **increase savings and take advantage of our OBRP and additional incentives from New Jersey’s Clean Energy Program**.
- ✓ **Simple Scale of 1-10** lays out to a customer what improvements need to be done to *increase their score*.



# New Jersey Natural Gas Experience (continued)

- ✓ DOE provides back to us monthly the **data collected** by our auditors.
- ✓ We are beginning the process of evaluation of this vital information to develop our programs going forward.
- ✓ DOE Home Energy Score has **responded to our feedback** including issues with scoring of larger homes and continues to upgrade its product for **ease of use** and **program delivery to its partners**.
- ✓ Home Energy Score use of **source energy** is helpful involving modeling homes using alternate fuel sources.

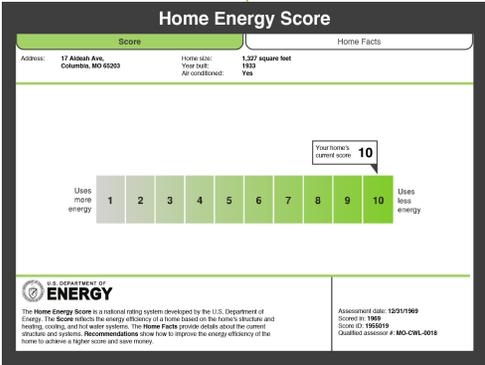


# Example #2

Provide the Score as part of a whole home efficiency program.



Energy Efficiency Investment

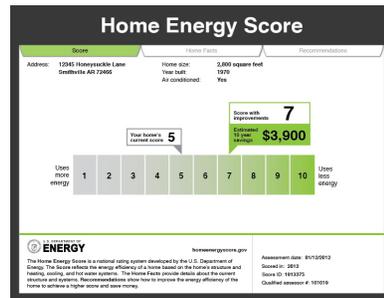


- ✓ Part of the HPwES program
- ✓ Home Energy Score completed before and after energy efficiency investment
- ✓ Used to motivate investment
- ✓ Used to estimate energy savings
- ✓ ~1,600 scores have been completed to date
- ✓ Recognition provided in the form of an improved Score
- ✓ Partners using this approach include Columbia Water and Light

# Example #3

Provide the Score as part of direct install programs or other outreach efforts.

Direct Install



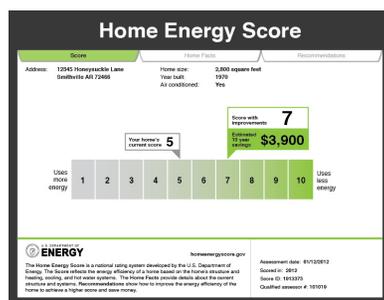
Energy Efficiency Investment

- ✓ **Utilities capitalize** on auditor's house visit
- ✓ Home Energy Score is used to **motivate homeowners** to undertake energy efficiency improvements
- ✓ Cost effective **data collection mechanism**
- ✓ Partners using this approach include Coldwater Board of Public Utilities and Energy Coordinating Agency

# Example #4

Offer the Score at point of sale and/or for new utility customers.

Point of Sale



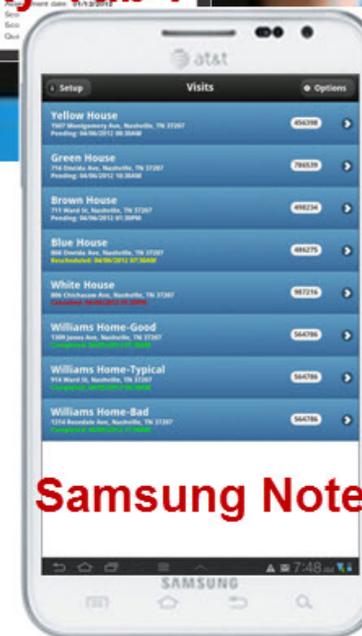
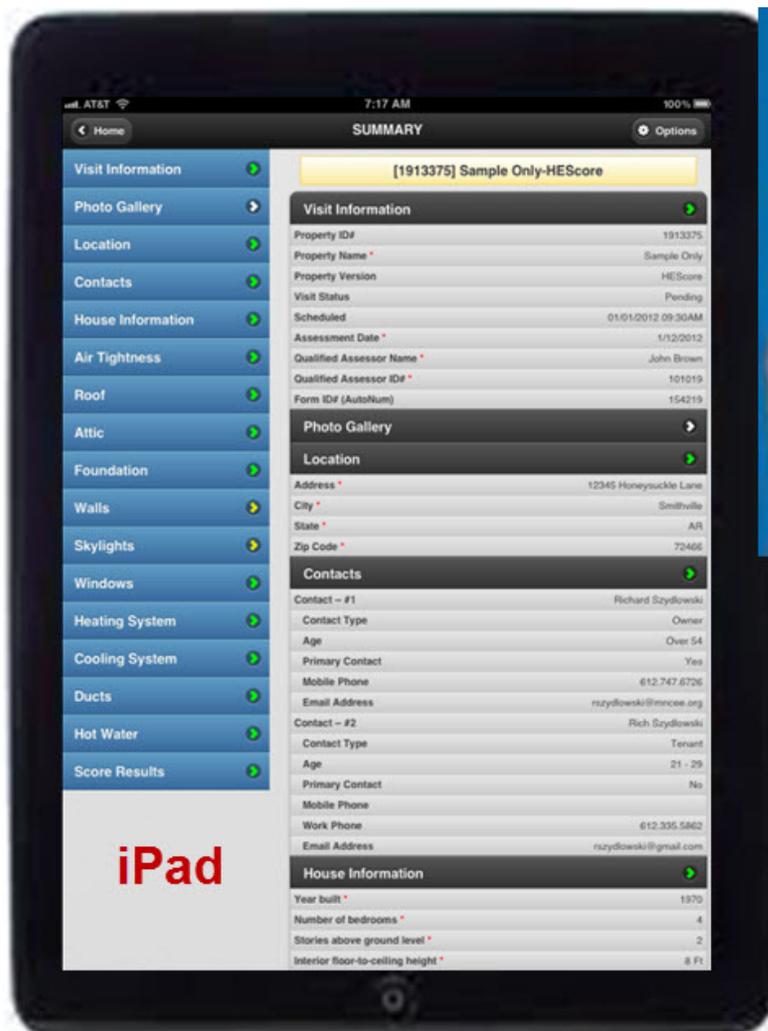
Energy Efficiency Investment

- ✓ Studies have shown that **homeowners' willingness to invest** in energy efficiency is substantially higher at point of sale
- ✓ **Additional cost** can be rolled into the loan with little impact on the mortgage payment
- ✓ Common for general home improvements to be made during **first year of home ownership**
  - Home Energy Score can help put energy efficiency improvements on homebuyer's radar
- ✓ Partners using this approach include Colorado Energy Office

# Collaboration, Market Impact: Leverage Market Players

U.S. DEPARTMENT OF  
**ENERGY**

Energy Efficiency &  
Renewable Energy



Images courtesy Richard Szydlowski,  
Minnesota Center for Energy and Environment

# Marketing Materials for Partners & Assessors

## Graphics

U.S. DEPARTMENT OF ENERGY  
**Home Energy Score**



**Qualified Assessor**

## Homeowner Materials

### HOME ENERGY SCORE

#### Know how your home compares

The Home Energy Score is similar to a vehicle's mile-per-gallon rating. The score, developed and administered by the U.S. Department of Energy, allows you to compare the energy performance of your home to other homes nationwide.

The process starts with a Qualified Assessor collecting energy information about your home during a brief home walk-through. In addition to scoring your home, the Qualified Assessor will provide you with a list of recommended energy improvements and their estimated cost savings.



[www.homeenergyscore.gov](http://www.homeenergyscore.gov)



#### WHAT DOES YOUR SCORE MEAN?

A higher score means a more energy efficient home

Using the Home Energy Scoring Tool, the Qualified Assessor scores your home on a scale of 1 to 10, with a score of 10 indicating that the home has excellent energy performance. A score of 1 indicates the home needs extensive energy improvements.

Use the list of recommended energy improvements provided by your Qualified Assessor to prioritize your energy efficiency improvements. By improving the efficiency of your home, you'll save money on your utility bills and enhance the comfort of your home. Plus, you can raise your Score!

#### GET STARTED TODAY!

- STEP 1** **Contact a Home Energy Score Partner currently offering the Home Energy Score in your area:**  
For a list of local programs, visit [www.homeenergyscore.gov](http://www.homeenergyscore.gov) and click on "Partners." Your local Partner will help you get in touch with Qualified Assessors in your area.
- STEP 2** **Get a home energy assessment.**  
A Qualified Assessor will come to your home to collect information about your home's energy performance and evaluate your home to see where energy is being lost and the efficiency of your heating, cooling, and hot water systems. Best of all, it's quick! It only takes about an hour.
- STEP 3** **Get your Home Energy Score.**  
Your Qualified Assessor will generate your home's Score, which will range from 1 to 10, with 10 representing only the most efficient homes.
- STEP 4** **Decide on your energy improvements**  
Many states, localities and utilities offer incentives or rebates to make energy improvements. Make your energy improvements today and feel the difference in your home (and your utility bill) right away!



Find out with

U.S. DEPARTMENT OF ENERGY  
**Home Energy Score**



▶ [Click to learn more](#)

## Web Banners

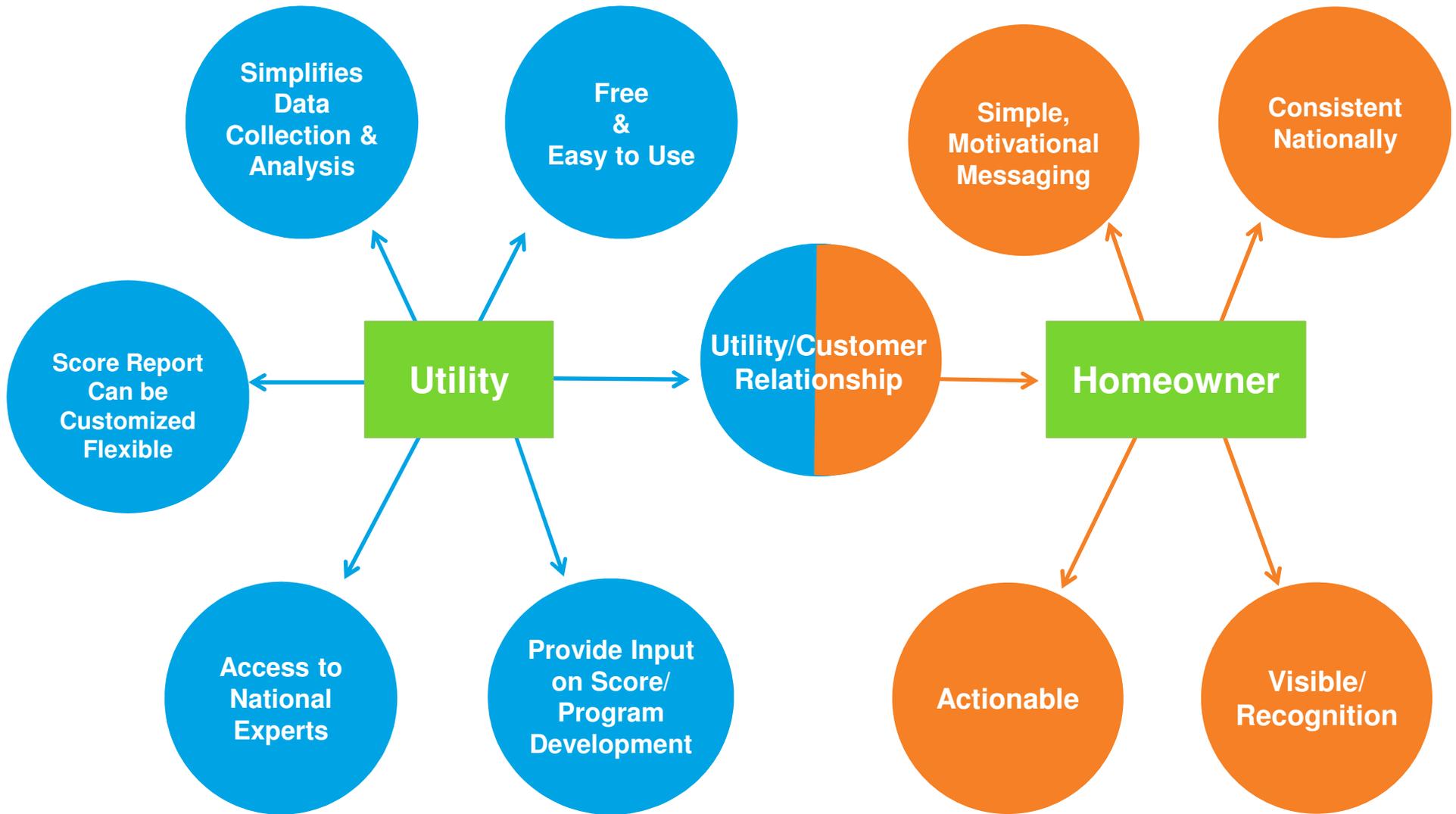
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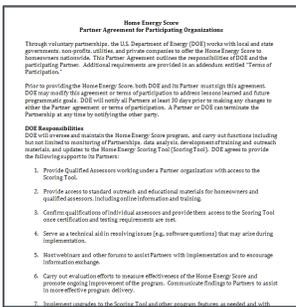
# Benefits



## Partners oversee Qualified Assessors to implement Home Energy Score in their area

### Upon Joining

- ✓ Sign a partnership agreement
- ✓ Develop an implementation plan



### Annual Commitment

- ✓ Complete 200+ Scores per year
- ✓ Rescore 5% of homes (Quality Assurance)



### On-going

- ✓ Administer Qualified Assessors tests
- ✓ Participate in monthly webinars



- ✓ **New Scoring Tool, Scoring Method**
  - Available September 2013
  - Significantly improved ability to move up scale
  - Large home issue resolved
  - Easier to use API (application programming interface for those interested in tying into other software products)
  
- ✓ **Bringing in experts to help further **enhance and target messaging****
  - How can Score most effectively be used to motivate customer investment in efficiency upgrade (e.g., role of recognition)
  
- ✓ **Simulation training and testing** under development
  - Ability to participate in testing and development
  
- ✓ **Planning future improvements**
  - Tool enhancements
  - Additional opportunities to customize Report and results

For More Information...



Home Energy Score

[HomeEnergyScore@ee.doe.gov](mailto:HomeEnergyScore@ee.doe.gov)

Commercial Building Energy Asset Score

[Asset.score@ee.doe.gov](mailto:Asset.score@ee.doe.gov)