Where We Are and Where We Are Going

2018 ENERGY STAR Certified Homes Stakeholder Meeting

September 6, 2018
Elliot Seibert
Implementation Manager
U.S. EPA, ENERGY STAR Residential Branch
Agenda

• RaterPRO benefits and features review
• Development timeline update
• Beta Period update
• Open Source update
• The year ahead
EPA created RaterPRO to promote adoption of high-quality ratings across the industry by increasing their value and reducing their cost.
Key Features of RaterPRO

1. Ability to verify both ENERGY STAR and HERS jobs.
Key Features of RaterPRO

2. Cloud-based, but with the ability to work offline.

Cloud Hosted

Web-Based Admin Site

Field App
Key Features of RaterPRO

3. Able to import proposed ratings from HERS software.
4. Able to export confirmed ratings back to HERS software.
Key Features of RaterPRO

5. Capable of capturing robust data.

<table>
<thead>
<tr>
<th>Status</th>
<th>N/A</th>
<th>Must Correct</th>
<th>Rater Verified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notes</td>
<td></td>
<td></td>
<td>Great job on the wall insulation!</td>
</tr>
<tr>
<td>Photos</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Key Features of RaterPRO

6. Voluntary and freely available.
Walkthrough
Job Details

By area in the house

Completion percentages

Minimum rated features and ENERGY STAR Checklist Items

Comments

Status
Edit Minimum Rated Feature
Edit Minimum Rated Feature

<table>
<thead>
<tr>
<th>Windows match proposed design</th>
<th>U-Value</th>
<th>SHGC</th>
<th>Area (sq ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Window 380.20&quot;</td>
<td>0.300</td>
<td>0.200</td>
<td>South</td>
</tr>
<tr>
<td>Right Window 380.20&quot;</td>
<td>0.300</td>
<td>0.27</td>
<td>East</td>
</tr>
<tr>
<td>Rear Window 380.20&quot;</td>
<td>0.300</td>
<td>0.200</td>
<td>North</td>
</tr>
<tr>
<td>Left Window 360.20&quot;</td>
<td>0.300</td>
<td>0.200</td>
<td>West</td>
</tr>
<tr>
<td>Left Slider 28/22&quot;</td>
<td>0.280</td>
<td>0.220</td>
<td>West</td>
</tr>
<tr>
<td>Rear Slider 28/22&quot;</td>
<td>0.280</td>
<td>0.200</td>
<td>North</td>
</tr>
<tr>
<td>Rear Window 40/28&quot;</td>
<td>0.400</td>
<td>0.280</td>
<td>North</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Doors match proposed design</th>
<th>U-Value</th>
<th>SHGC</th>
<th>Area (sq ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Therma Tru Fiberglass</td>
<td>5.30</td>
<td></td>
<td>North</td>
</tr>
<tr>
<td>Garage Steel 4-0&quot;</td>
<td>4.40</td>
<td></td>
<td>West</td>
</tr>
</tbody>
</table>

You Are Rating: 45th Street, Miami, OH 34191
Add Comments and Photos

Insulation levels match proposed design

Insulation is Grade I

Window

Name

Front

Left

Right

Glass Do

Glass Be

Fenestration matches proposed design

Builder Verified

Must Correct

Rate Verified

Comments

Winston Churchill • May 6th 2018, 7:18 pm
Insulation is great. Nice job.

You are rating: 123 Apple Lane, Abilene, TX 79645
Builder: 04-10-103, Builder Name: Matt SS, Rating: 4, English

Close
ENEF STAR. The simple choice for energy efficiency.

Front Photo

Coming soon: Geo-tagging
Builder Report

Share via e-mail
(Will use default e-mail program)
Job History (Coming Soon)

Job History

Created: 1:38 pm, Jul 10th 2018 by Laverna Padilla

Edited: 12:23 pm, Aug 23rd by Elliot Seibert
  • Total editing time = 47 minutes
  • 27 pre-drywall status updates, 0 final status updates
  • 4 minimum rated features edited
  • 8 comments
  • 6 photos
Timeline

- Outreach & Design
  - 2016

- Development
  - 2017

- Beta Period
  - April 2018

- Final Touches
  - Next 6 Months
  - Today

- Version 1.0 Release
  - February 2019 (RESNET Conference)
## Beta User Feedback

<table>
<thead>
<tr>
<th>Popular Features</th>
<th>Recent Improvements</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Import/export with rating software</td>
<td>• Fixed user permission bugs</td>
</tr>
<tr>
<td>• Offline functionality</td>
<td>• Fixed rating file import bugs</td>
</tr>
<tr>
<td>• Friendly user interface</td>
<td>• Improved performance and responsiveness</td>
</tr>
<tr>
<td>• Ability to keep photos organized by attaching to individual inspection items</td>
<td>• Improved syncing reliability</td>
</tr>
</tbody>
</table>
WE WANT YOU!
We Want You!
How to Join the Beta

Signup with Elliot at Stakeholder Meeting

Or Email: energystarhomes@energystar.gov

We’ll reach out to begin **3-Step Initiation:**

1. Clean up My ENERGY STAR Account
2. Download iPad app
3. Attend Orientation Webinar
Pay no attention to that man behind the curtain!
Open Source Interest

- Community has consistently requested an open-source project, including at least year’s Stakeholder Meeting
  - Set up on an organizations’ own servers for independent control
  - Integrate with existing systems (scheduling, billing, etc.)
  - Customize for individual needs
- Solicited input in February at RESNET pre-conference session
- Offered three options to make RaterPRO more “open.” Consensus was open source project would be the best path.
## Phased Rollout for Open Source

### Phase 1: Free-to-View
- Preview of pre-release source code
- Limited documentation

### Phase 2: Free-to-Fork
- Version 1.0 Source Code
- Enhanced documentation
- Set up instances
- Fork your own versions
- No pull requests accepted

### Phase 3: Managed Collaboration
- “Canonical” version of RaterPRO will continue to be hosted by EPA
- Collaboration between EPA and community to set development priorities
- EPA manages pull requests from community contributors
# Open Source License and Caveats

## Allowances
- MIT License
- Host your own instances (included startup scripts make this relatively easy)
- Modify for your own needs
- Sell modified version as commercial product

## Limitations
- Limited documentation in Phase 1 (more will be available w/ v1.0)
- Limited EPA support resources
- Must re-brand any forked instances (can’t use the name “RaterPRO”)
- Custom user account module required
The Year Ahead

• RaterPRO Beta – Sign up now!
• RaterPRO Open-Source (Phase 1) – Join now!
• Programming remaining tentpole features:
  – Job Edit History
  – Energy Gauge Support
  – Android Support
• RaterPRO v1.0 release February 2019 (RESNET Conference)
ENERGY STAR Certified Homes

Web & Email:

Main:  www.energystar.gov/newhomespartners
Technical:  www.energystar.gov/newhomesguidelines
Training:  www.energystar.gov/newhomestraining
HVAC:  www.energystar.gov/newhomesHVAC
Email:  energystarhomes@energystar.gov

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