

ENERGY STAR. The simple choice for energy efficiency.



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

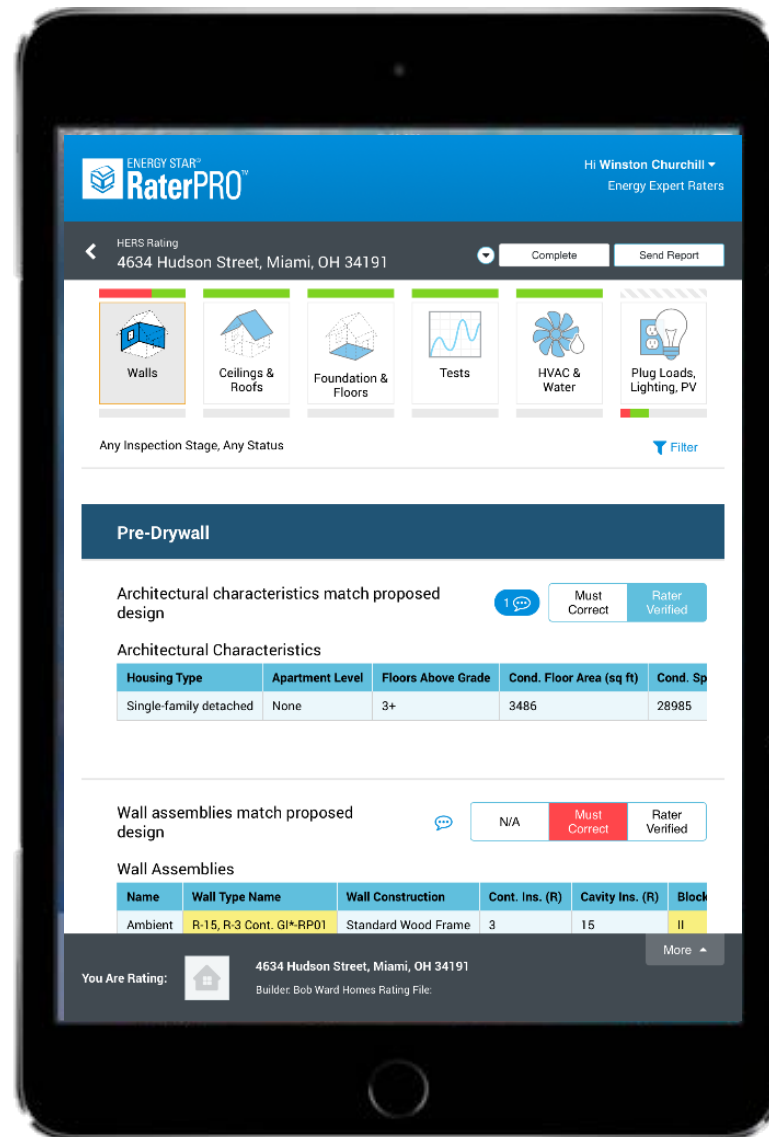




Agenda

- RaterPRO benefits and features review
- Development timeline update
- Beta Period update
- Open Source update
- The year ahead

ENERGY STAR. The simple choice for energy efficiency.



EPA created RaterPRO to promote adoption of **high-quality ratings** across the industry by increasing their value and reducing their cost.





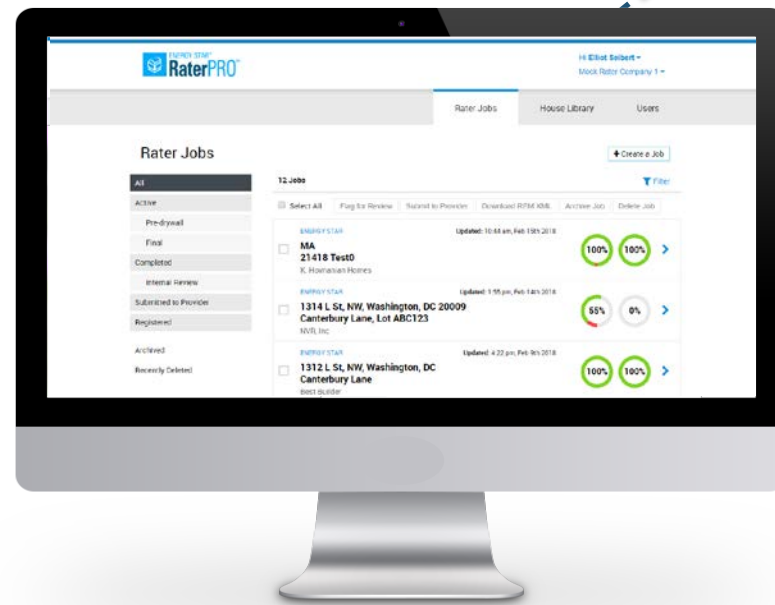
Key Features of RaterPRO

1. Ability to verify both ENERGY STAR and HERS jobs.

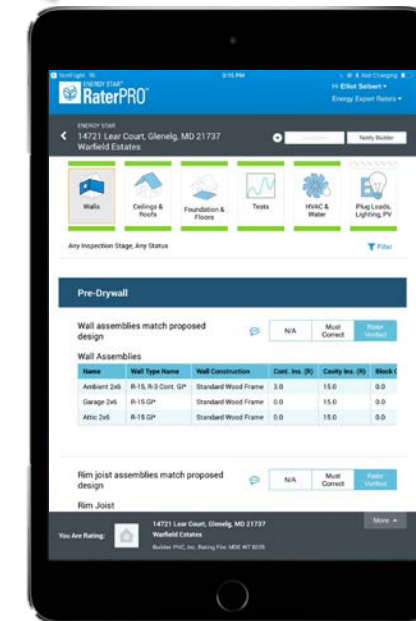


Key Features of RaterPRO

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



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.

Status	N/A	Must Correct	Rater Verified
Notes	<i>Great job on the wall insulation!</i>		
Photos			

Key Features of RaterPRO

6. Voluntary and freely available.





Walkthrough



Job Details

ENERGY STAR[®] RaterPRO™ Hi Winston Churchill
Energy Expert Raters

HERS Rating 4634 Hudson Street, Miami, OH 34191 Complete Send Report

Walls Ceilings & Roofs Foundation & Floors Tests HVAC & Water Plug Loads, Lighting, PV

Any Inspection Stage, Any Status Filter

Pre-Drywall

Architectural characteristics match proposed design 1 Must Correct Rater Verified

Architectural Characteristics

Housing Type	Apartment Level	Floors Above Grade	Cond. Floor Area (sq ft)	Cond. Sp
Single-family detached	None	3+	3486	28985

Wall assemblies match proposed design N/A Must Correct Rater Verified

Wall Assemblies

Name	Wall Type Name	Wall Construction	Cont. Ins. (R)	Cavity Ins. (R)	Block
Ambient	R-15, R-3 Cont. GI*-RP01	Standard Wood Frame	3	15	II

You Are Rating: 4634 Hudson Street, Miami, OH 34191
Builder: Bob Ward Homes Rating File: More

By area in the house

Completion percentages

Comments

Minimum rated features and ENERGY STAR Checklist Items

Status



Edit Minimum Rated Feature

HERS Rating
Complete Send Report

4634 Hudson Street, Miami, OH 34191

Windows match proposed design
N/A
Must Correct
Rater Verified

Windows

Name	Window Type Name	U-Value	SHGC	Area (sq ft)	Orientation	Overhang Depth (ft)
Front	Window .30/.20*	0.300	0.200	South	120.0	0.0
Right	Window .30/.20*	0.300	0.200	East	60.0	0.0
Rear	Window .30/.20*	0.300	0.200	North	114.0	0.0
Left	Window .30/.20*	0.300	0.200	West	30.0	0.0
Left	Slider .28/.22*	0.280	0.220	West	42.0	0.0
Rear	Slider .28/.22*	0.280	0.220	North	42.0	0.0
Rear	Window .40/.28*	0.400	0.280	North	17.0	0.0

Doors match proposed design
N/A
Must Correct
Rater Verified

Doors

Name	Door Type Name	R-Value of Opaque Area	Storm Door?	Opaque Area (sq ft)
Front Door	Therma-Tru Fiberglas*	5.30	No	21.0
Garage Door	Steel-urth w/brk	4.40	No	21.0

You Are Rating:
4634 Hudson Street, Miami, OH 34191 More ^

Builder: Bob Ward Homes Rating File:

Edit Minimum Rated Feature

HERS Rating
4634 Hudson Street, Miami, OH 34191

Complete Send Report

Windows match proposed design N/A Must Correct Rater Verified

Windows

Name	Window Type Name	U-Value	SHGC	Area (sq ft)	Orientation	Overhang Depth (ft)
Front	Window .30/.20*	0.300	0.200	South	120.0	0.0
Right	Window .30/.20*	0.300	0.27	East	60.0	0.0
Rear	Window .30/.20*	0.300	0.200	North	114.0	0.0
Left	Window .30/.20*	0.300	0.200	West	30.0	0.0
Left	Slider .28/.22*	0.280	0.220	West	42.0	0.0
Rear	Slider .28/.22*	0.280	0.220	North	42.0	0.0
Rear	Window .40/.28*	0.400	0.280	North	17.0	0.0

Doors match proposed design N/A Must Correct Rater Verified

Doors

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You Are Rating: 4634 Hudson Street, Miami, OH 34191
Builder: Bob Ward Homes Rating File: More

U-Value	SHGC	Area (sq ft)
0.300	0.200	South
0.300	0.27	East
0.300	0.200	North
0.300	0.200	West
0.300	0.220	West



Add Comments and Photos

ENERGY STAR
123 Apple Lane, Abilene, TX 12345

Complete Send Report

Insulation levels match proposed design

Insulation is Grade I

Windows

Name
Front
Left
Rear
Right
Glass Door
Glass Door
Glass Door

Fenestration matches proposed design

You Are Rating: 123 Apple Lane, Abilene, TX 12345
Builder: DR Horton Houston Rating File: 4783 A English

Close Comments + New



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



Front Photo

ENERGY STAR™
RaterPRO™

Hi Elliot Seibert
Mock Combined Company 1

HERS Rating
1205 Wishing Well Court, Bel Air, MD 21015
Anns Meadow

Complete Send Report

Walls Ceilings & Roofs Foundation & Floors Tests HVAC & Water Plug Loads, Lighting, PV

Any Inspection Stage, Any Status Filter

Pre-Drywall

Architectural characteristics match proposed design
Must Correct Rater Verified

Architectural Characteristics

Housing Type	Apartment Level	Floors Above Grade	Stories Inc. Cond. Bsmt.	Cond. F
Single-family detached	None	3	3	3856

Wall assemblies match proposed
Must Rater
Less

1 Addresses For This Sample Set

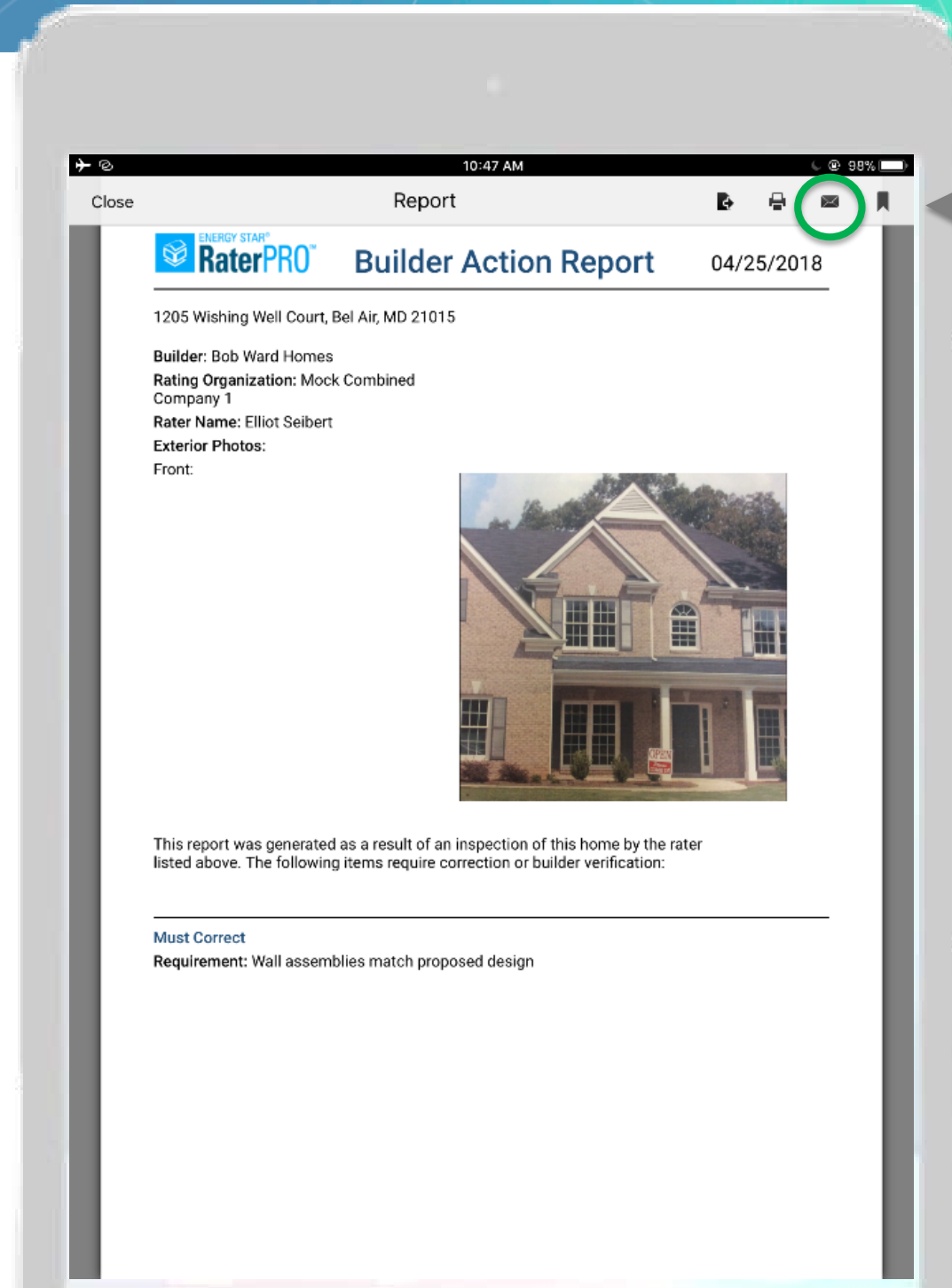
★ Primary
1205 Wishing Well Court, ...
Anns Meadow
Builder: Bob Ward Homes
Rating File: The Hampton

Change Photo

Coming soon: Geo-tagging



Builder Report



Share via e-mail
(Will use default
e-mail program)



Job History (Coming Soon)

ENERGY STAR RaterPRO

Hi Elliot Seibert
Mock Combined Company 1

ENERGY STAR
3948 White Sands Blvd, Orlando, FL 32789

Edit Profile Flag for Review Submit to Provider Mark as Registered Download XML

Job History

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

Edited: 12:23 pm, Aug 23rd by Elliot Seibert

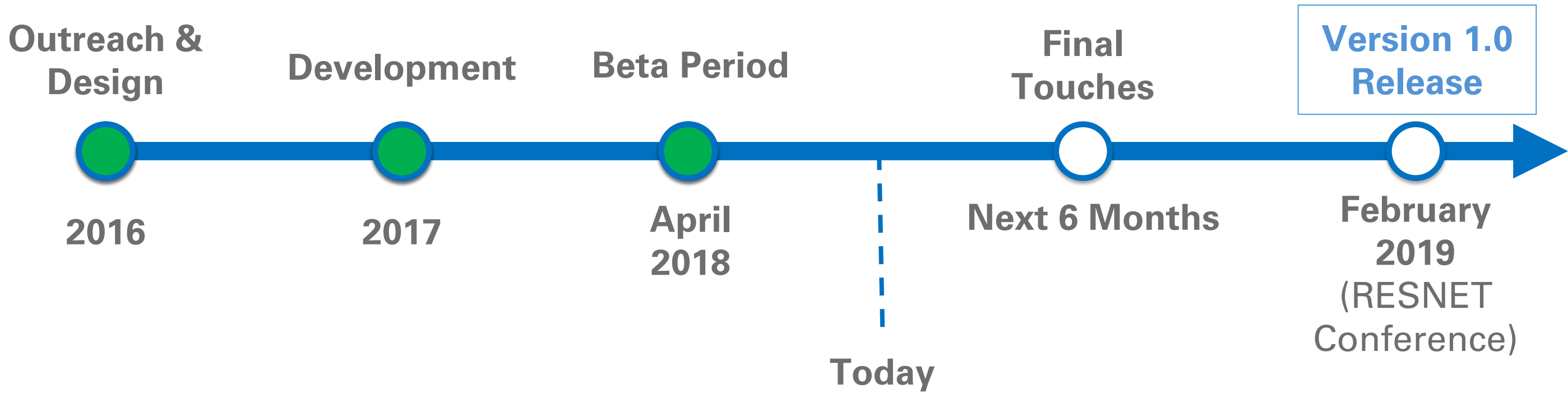
- Total editing time = 47 minutes
- 27 pre-drywall status updates, 0 final status updates
- 4 minimum rated features edited
- 8 comments
- 6 photos

You Are Rating: 3948 White Sands Blvd, Orlando, FL 32789 [More](#)

Builder: Peninsula Homes Rating File: 3948 White Sands



Timeline



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Beta User Feedback

Popular Features

- Import/export with rating software
- Offline functionality
- Friendly user interface
- Ability to keep photos organized by attaching to individual inspection items

Recent Improvements

- Fixed user permission bugs
- Fixed rating file import bugs
- Improved performance and responsiveness
- Improved syncing reliability

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WE WANT YOU!





How to Join the Beta

Signup with **Elliot** at Stakeholder Meeting

Or **Email: energystarhomes@energystar.gov**

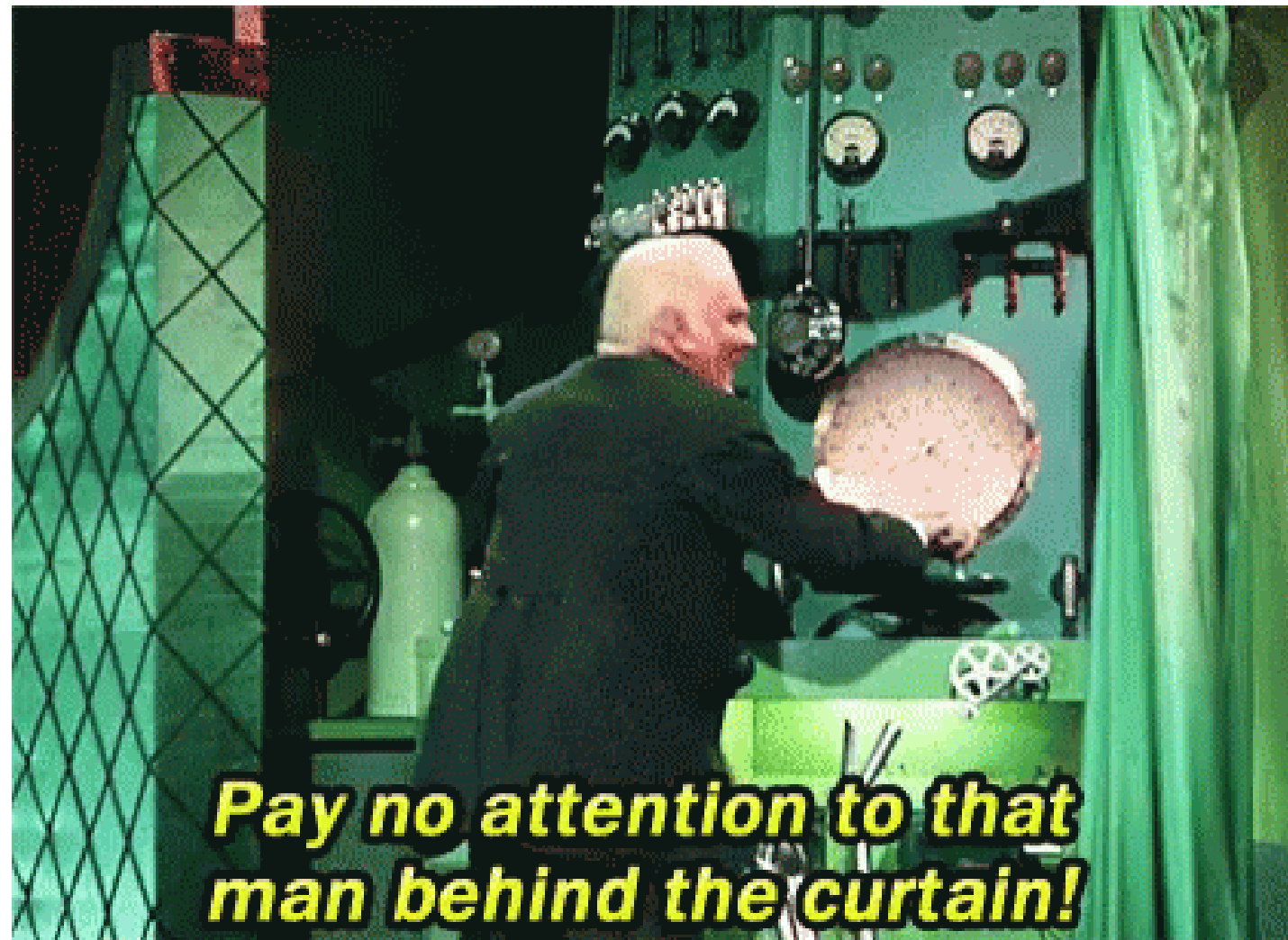
We'll reach out to begin **3-Step Initiation:**

1. Clean up My ENERGY STAR Account
2. Download iPad app
3. Attend Orientation Webinar

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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

<p style="text-align: center;">Phase 1: Free-to-View</p> <ul style="list-style-type: none">• Preview of pre-release source code• Limited documentation	<p style="text-align: center;">Available Today</p>
<p style="text-align: center;">Phase 2: Free-to-Fork</p> <ul style="list-style-type: none">• Version 1.0 Source Code• Enhanced documentation• Set up instances• Fork your own versions• No pull requests accepted	<p style="text-align: center;">Available February 2019</p>
<p style="text-align: center;">Phase 3: Managed Collaboration</p> <ul style="list-style-type: none">• “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

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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

Social Media:

 @energystarhomes
 facebook.com/energystar

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