

# ENERGYGAUGE USA

ENERGY STAR v2.5 HERS Index Target  
TRAINING MODULE

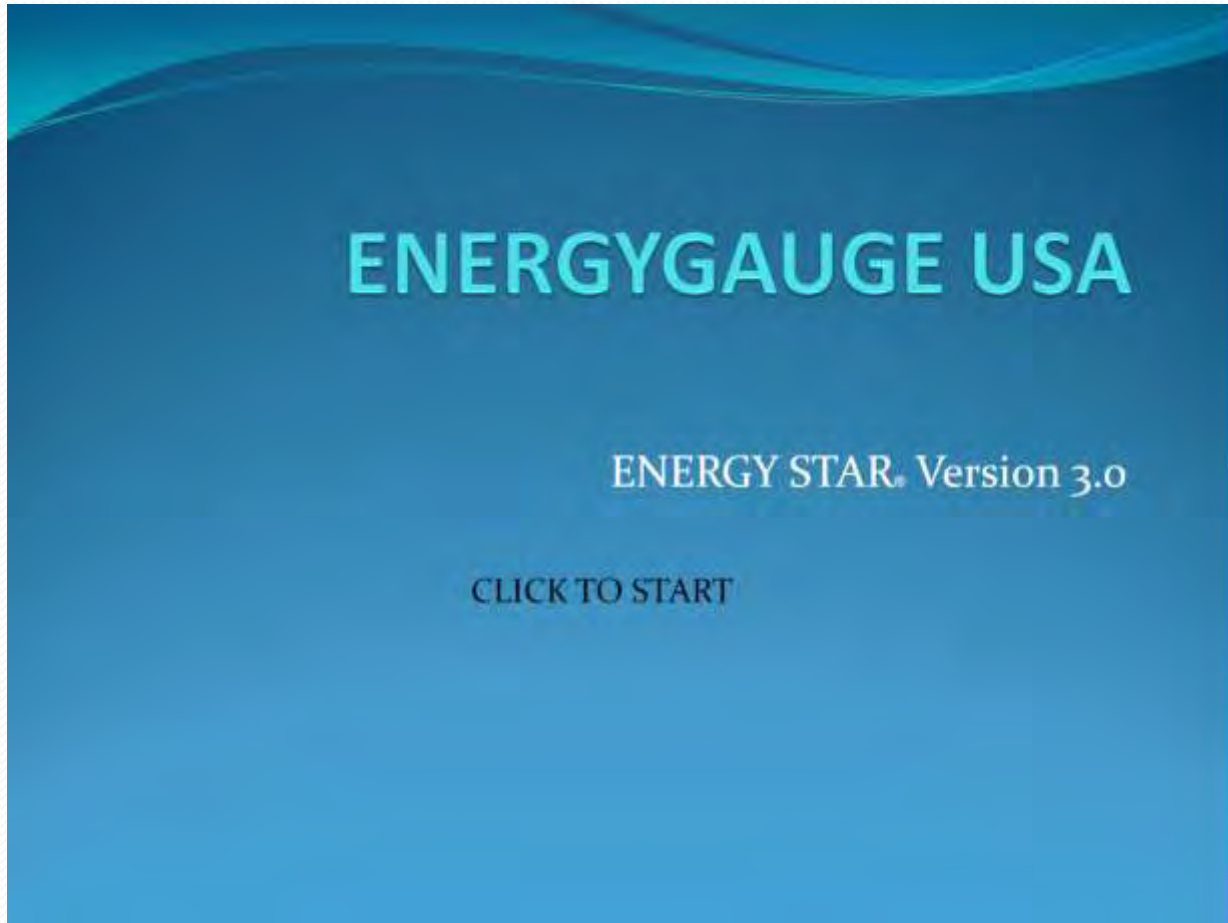
# Introduction to ENERGYGAUGE USA

EnergyGauge USA  
an ENERGY STAR Partner

ENERGY STAR Program



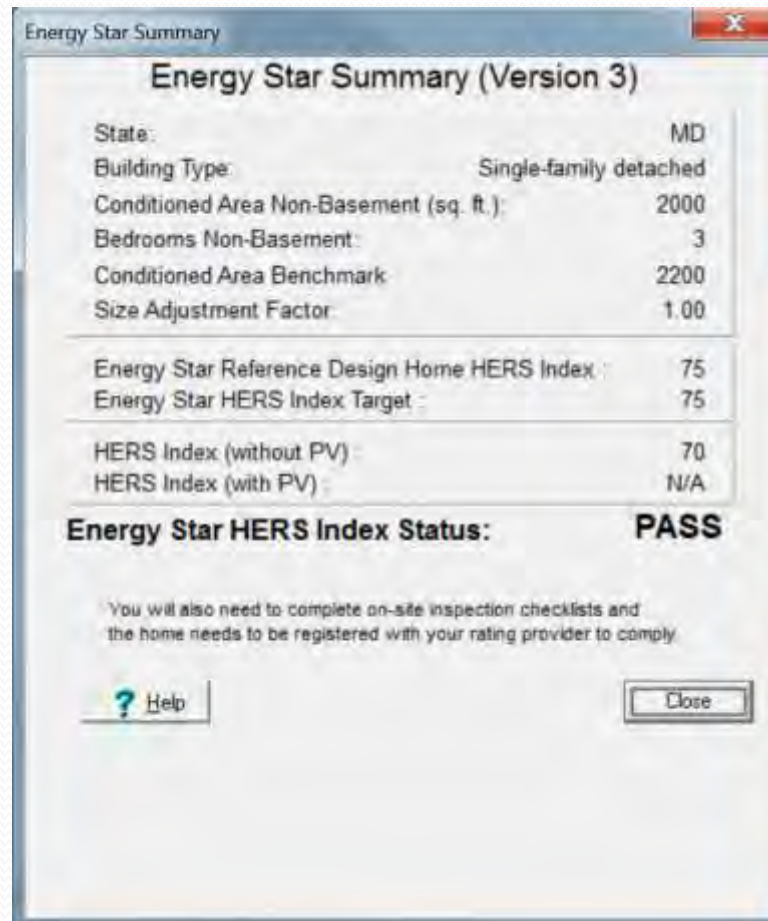
# ENERGY STAR HERS Index Target Video



# EnergyGauge USA Versions supporting ENERGY STAR

- All rating versions of EnergyGauge USA support the ENERGY STAR Program.
- These include USRRCB, USRRPB, USRRZB, USRRHB, USRCBB, USRRBB, and USRFXB.

# View ENERGY STAR Summary for the 45 States



Energy Star Summary (Version 3)

State:	MD
Building Type:	Single-family detached
Conditioned Area Non-Basement (sq. ft.):	2000
Bedrooms Non-Basement:	3
Conditioned Area Benchmark:	2200
Size Adjustment Factor:	1.00

---

Energy Star Reference Design Home HERS Index:	75
Energy Star HERS Index Target:	75

---

HERS Index (without PV):	70
HERS Index (with PV):	N/A

**Energy Star HERS Index Status: PASS**

You will also need to complete on-site inspection checklists and the home needs to be registered with your rating provider to comply.

[? Help](#)

# View ENERGY STAR Summary for the State of Florida

The screenshot shows a window titled "Energy Star Summary" with a close button in the top right corner. The main title is "Energy Star Summary (Version 3)". The window contains a table of building characteristics and energy performance metrics. At the bottom, it displays the Energy Star HERS Index Status V 3.0 and V 2.5, both marked as "PASS". There are also "Help" and "Close" buttons at the bottom of the window.

Energy Star Summary (Version 3)	
State:	FL
Building Type:	Single-family detached
Conditioned Area Non-Basement (sq. ft.):	2494
Bedrooms Non-Basement:	4
Conditioned Area Benchmark:	2800
Size Adjustment Factor:	1.00
<hr/>	
Energy Star Reference Design Home HERS Index:	73
Energy Star HERS Index Target:	73
<hr/>	
HERS Index (without PV):	70
HERS Index (with PV):	N/A
<hr/>	
<b>Energy Star HERS Index Status V 3.0 *</b>	<b>PASS</b>
<b>Energy Star HERS Index Status V 2.5 **:</b>	<b>PASS</b>

You will also need to complete on-site inspection checklists and the home needs to be registered with your rating provider to comply.

[? Help](#) Close

\* Because Florida's energy code is anticipated to become more stringent beginning January 2012, EPA is in the process of developing more stringent Florida-specific guidelines for homes qualified under Version 3. Therefore the numbers shown for Version 3.0 are subject to change.

\*\* To earn the Energy Star label under v2.5 of the program, homes in Florida shall achieve a HERS index of 77 or lower.

# CREATING A NEW PROJECT

Project ID	Building Type	Project Title	Owner
10	User	Dallas_TaxCredit	Energy Gauge
9	User	Sacramento_TaxCredit	Energy Gauge
8	User	Miami_ZeroEnergyHome	Energy Gauge
7	User	FL-example_HighPerf-Orlando	Energy Gauge
6	User	Orlando-2008FLcode	Energy Gauge
5	User	FL-example_2-story_Tampa	Energy Gauge

CLICK ON  
CREATE NEW  
PROJECT

# INPUT YOUR DATA

EnergyGauge USA - New Project

File View Calculate Batch Reports Registration Support Help

Project ID: 25 User Entry Mode

**Project Info**

Title:  Permit Office:   
Owner:  Permit Number:   
Builder:  Jurisdiction:   
Rater:  Rater ID:   
Comment:

**Building Info**

Status:

Rotate Building:

Total Number of Bedrooms:

Number of Bathrooms:

Total Number of Stories:

Conditioned Area:  x  =  Average Wall Height:  Conditioned Volume:

**Worst Case**

Yes  No

Occupancy

Single Family  Multi Family

Single-family detached

Energy Star

Yes  No

**Property Location**

Address Type

Street Address  Lot Information

Street:

City:  State:

County:  Zip:

Florida Climate Zone: None

**Post Project**

Project Climate Utility Rates Surroundings

Site Zones Envelope Equipment



# SELECT CALCULATE

EnergyGauge USA - FL-example\_HighPerf-Orlando

File View **Calculate** Batch Reports Registration Support Help

Project ID: 7 User Entry Mode

**Project Info**

Title: FL-example\_HighPerf-Orlando Permit Office:

Owner: Energy Gauge Permit Number:

Builder: John Q. Hammer Jurisdiction:

Rater: Robert Certified Rater ID: 000000

Comment: High Performance Florida Home

**Building Info**

Status: New (From Plans)

Rotate Building: 0

Total Number of Bedrooms: 4

Number of Bathrooms: 3

Total Number of Stories: 2

Conditioned Area: 2400 x Average Wall Height: 8 = Conditioned Volume: 19200

**Worst Case**

Yes  No

Occupancy

Single Family  Multi Family

Single-family detached

Energy Star

Yes  No

**Property Location**

Address Type

Street Address  Lot Information

Street: 123 Any Place

City: Orlando State: FL

County: Orange Zip: 32806-

Florida Climate Zone: Central

**Post Project**

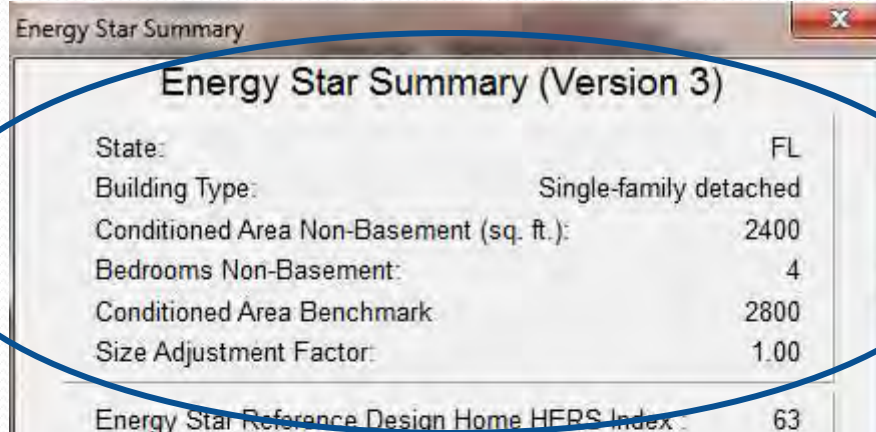
Project Climate Utility Rates Surroundings

Site Zones Envelope Equipment

# CALCULATE ENERGY STAR VERSION 3 (& V 2.5)

The screenshot shows the EnergyGauge USA software interface. The title bar reads "EnergyGauge USA - FL-example\_HighPerf-Orlando". The menu bar includes "File", "View", "Calculate", "Batch", "Reports", "Registration", "Support", and "Help". The "Calculate" menu is open, showing options: "Annual Simulation", "Building America", "Building Loads", "IECC Code Compliance", "Florida Code Compliance 2010", "Florida Code Compliance 2008", "Florida Code Compliance 2007", "Fannie Mae", "Rating...", "Tax Credit", "Mandate System Sizing", and "Energy Star Version 3 (& V 2.5)". The "Energy Star Version 3 (& V 2.5)" option is circled in blue. The main window is titled "Entry Mode" and contains several input fields: "Permit Office:", "Permit Number:", "Jurisdiction:", "Rater ID:" (with value "000000"), "Property Location" (with "Address Type" set to "Street Address"), "Street:" (with value "123 Any Place"), "City:" (with value "Orlando"), "State:" (with value "FL"), "County:" (with value "Orange"), "Zip:" (with value "32806-"), and "Florida Climate Zone:" (with value "Central"). The bottom of the window has tabs for "Project", "Climate", "Utility Rates", and "Surroundings", and a "Post Project" button.

# ENERGY STAR SPLASH SCREEN



Energy Star Summary

## Energy Star Summary (Version 3)

State:	FL
Building Type:	Single-family detached
Conditioned Area Non-Basement (sq. ft.):	2400
Bedrooms Non-Basement:	4
Conditioned Area Benchmark:	2800
Size Adjustment Factor:	1.00

---

Energy Star Reference Design Home HERS Index :	63
Energy Star HERS Index Target :	63

---

HERS Index (without PV) :	53
HERS Index (with PV) :	N/A

**Energy Star HERS Index Status V 3.0 \*:** **PASS**

**Energy Star HERS Index Status V 2.5 \*\*:** **PASS**

You will also need to complete on-site inspection checklists and the home needs to be registered with your rating provider to comply.

[? Help](#)      [Print EPA Certificate](#)      [Close](#)

\* Because Florida's energy code is anticipated to become more stringent beginning January 2012, EPA is in the process of developing more stringent Florida-specific guidelines for homes qualified under Version 3. Therefore the numbers shown for Version 3.0 are subject to change.

\*\* To earn the Energy Star label under v2.5 of the program, homes in Florida shall achieve a HERS Index of 77 or lower.

The first section deals with data input that are on the project information screen as well as the calculation of the size adjustment

Factor

For condos and apartments the size adjustment factor is always

1.0.

# ENERGY STAR SPLASH SCREEN

Energy Star Summary

## Energy Star Summary (Version 3)

State:	FL
Building Type:	Single-family detached
Conditioned Area Non-Basement (sq. ft.):	2400
Bedrooms Non-Basement:	4
Conditioned Area Benchmark:	2800
Size Adjustment Factor:	1.00
Energy Star Reference Design Home HERS Index :	63
Energy Star HERS Index Target :	63
HERS Index (without PV) :	53
HERS Index (with PV) :	N/A

**Energy Star HERS Index Status V 3.0 \* : PASS**  
**Energy Star HERS Index Status V 2.5 \*\*: PASS**

You will also need to complete on-site inspection checklists and the home needs to be registered with your rating provider to comply.

[? Help](#)      [Print EPA Certificate](#)      [Close](#)

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The second section demonstrates the Energy Star Design Home HERS Index, while the second line of the second section demonstrates the Energy Star HERS Index Target based on the home as input with adjustments for size

# ENERGY STAR SPLASH SCREEN

Energy Star Summary

## Energy Star Summary (Version 3)

State:	FL
Building Type:	Single-family detached
Conditioned Area Non-Basement (sq. ft.):	2400
Bedrooms Non-Basement:	4
Conditioned Area Benchmark:	2800
Size Adjustment Factor:	1.00

---

Energy Star Reference Design Home HERS Index :	63
Energy Star HERS Index Target :	63
HERS Index (without PV) :	53
HERS Index (with PV) :	N/A

**Energy Star HERS Index Status V 3.0**      **PASS**

**Energy Star HERS Index Status V 2.5 \*\*:**      **PASS**

You will also need to complete on-site inspection checklists and the home needs to be registered with your rating provider to comply.

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\* Because Florida's energy code is anticipated to become more stringent beginning January 2012, EPA is in the process of developing more stringent Florida-specific guidelines for homes qualified under Version 3. Therefore the numbers shown for Version 3.0 are subject to change.

\*\* To earn the Energy Star label under v2.5 of the program, homes in Florida shall achieve a HERS Index of 77 or lower.

The third section reports the HERS Index of the home as input without a PV system. The second line is the HERS Index IF the house has a PV system.

\*\*Please note that unless the size adjustment factor has been used, the HERS Index with PV cannot be used

# ENERGY STAR SPLASH SCREEN

Energy Star Summary

### Energy Star Summary (Version 3)

State:	FL
Building Type:	Single-family detached
Conditioned Area Non-Basement (sq. ft.):	2400
Bedrooms Non-Basement:	4
Conditioned Area Benchmark:	2800
Size Adjustment Factor:	1.00

---

Energy Star Reference Design Home HERS Index :	63
Energy Star HERS Index Target :	63

---

HERS Index (without PV) :	53
HERS Index (with PV) :	N/A

**Energy Star HERS Index Status V 3.0 \* PASS**  
**Energy Star HERS Index Status V 2.5 \*\*: PASS**

You will also need to complete on-site inspection checklists and the home needs to be registered with your rating provider to comply.

[? Help](#)   [Print EPA Certificate](#)   [Close](#)

\* Because Florida's energy code is anticipated to become more stringent beginning January 2012, EPA is in the process of developing more stringent Florida-specific guidelines for homes qualified under Version 3. Therefore the numbers shown for Version 3.0 are subject to change.

\*\* To earn the Energy Star label under v2.5 of the program, homes in Florida shall achieve a HERS Index of 77 or lower.

The fourth section indicates whether the home passes Energy Star versions 2.5 and 3.0

The last section deals with the HELP Menu and the printing of the EPA Certificate

# ENERGY STAR SPLASH SCREEN

Energy Star Summary (Version 3)	
State:	FL
Building Type:	Single-family detached
Conditioned Area Non-Basement (sq. ft.):	2400
Bedrooms Non-Basement:	2
Conditioned Area Benchmark:	1600
Size Adjustment Factor:	0.90
Energy Star Reference Design Home HERS Index :	63
Energy Star HERS Index Target :	57
HERS Index (without PV) :	53
HERS Index (with PV) :	N/A
<b>Energy Star HERS Index Status V 3.0</b>	<b>PASS</b>
<b>Energy Star HERS Index Status V 2.5 **</b>	<b>PASS</b>

You will also need to complete on-site inspection checklists and the home needs to be registered with your rating provider to comply.

? Help    Print EPA Certificate    Close

\* Because Florida's energy code is anticipated to become more stringent beginning January 2012, EPA is in the process of developing more stringent Florida-specific guidelines for homes qualified under Version 3. Therefore the numbers shown for Version 3.0 are subject to change.

\*\* To earn the Energy Star label under v2.5 of the program, homes in Florida shall achieve a HERS Index of 77 or lower.

Same house but the number of bedrooms changed from 4 to 2  
Now we see the size adjustment factor of 0.90

The Energy Star Reference Design Home HERS Index is 63 and the Energy Star HERS Index Target is 57 based on the size adjustment factor ( $63 \times 0.90 = 56.7$  or 57)

The HERS index without PV is 53. 53 is less than the target of 57

Home passes for both version 2.5 and 3.0

# ENERGY STAR SPLASH SCREEN

Energy Star Summary

## Energy Star Summary (Version 3)

State:	FL
Building Type:	Single-family detached
Conditioned Area Non-Basement (sq. ft.):	2400
Bedrooms Non-Basement:	2
Conditioned Area Benchmark	1600
Size Adjustment Factor:	0.90

---

Energy Star Reference Design Home HERS Index :	63
Energy Star HERS Index Target :	57

---

HERS Index (without PV) :	69
HERS Index (with PV) :	N/A

**Energy Star HERS Index Status V 3.0 \*      FAIL**

**Energy Star HERS Index Status V 2.5 \*\*:      PASS**

You will also need to complete on-site inspection checklists and the home needs to be registered with your rating provider to comply.

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\* Because Florida's energy code is anticipated to become more stringent beginning January 2012, EPA is in the process of developing more stringent Florida-specific guidelines for homes qualified under Version 3. Therefore the numbers shown for Version 3.0 are subject to change.

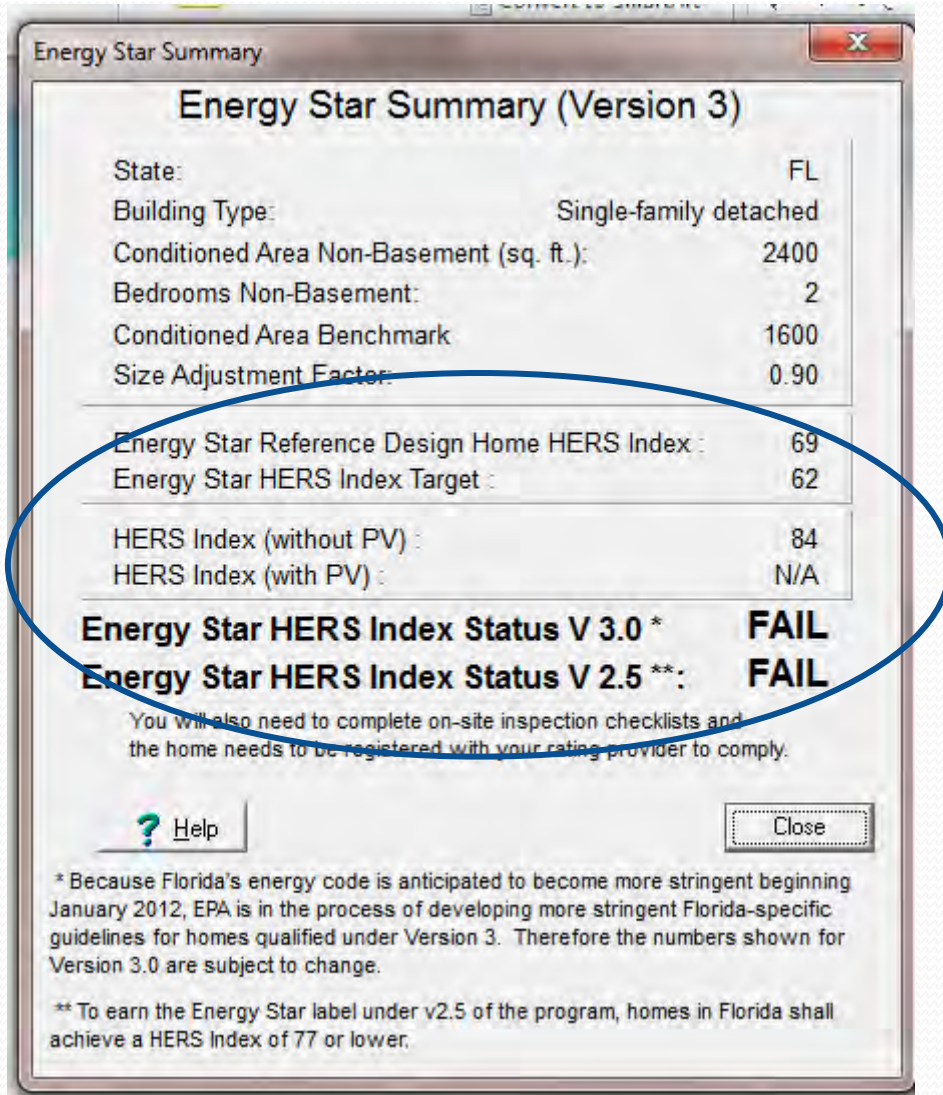
\*\* To earn the Energy Star label under v2.5 of the program, homes in Florida shall achieve a HERS Index of 77 or lower.

Same house but some of the characteristics of the home changed.

The Energy Star Reference Design Home HERS Index and the Energy Star HERS index Target remains the same. The HERS Index for this home is now 69 and does not meet the criteria for Energy Star version 3.0



# ENERGY STAR SPLASH SCREEN



The image shows a screenshot of the Energy Star Summary splash screen. The window title is "Energy Star Summary" and it contains the following information:

Energy Star Summary (Version 3)	
State:	FL
Building Type:	Single-family detached
Conditioned Area Non-Basement (sq. ft.):	2400
Bedrooms Non-Basement:	2
Conditioned Area Benchmark	1600
Size Adjustment Factor:	0.90
Energy Star Reference Design Home HERS Index :	69
Energy Star HERS Index Target :	62
HERS Index (without PV) :	84
HERS Index (with PV) :	N/A
<b>Energy Star HERS Index Status V 3.0 *</b>	<b>FAIL</b>
<b>Energy Star HERS Index Status V 2.5 **:</b>	<b>FAIL</b>

You will also need to complete on-site inspection checklists and the home needs to be registered with your rating provider to comply.

[? Help](#) [Close](#)

\* Because Florida's energy code is anticipated to become more stringent beginning January 2012, EPA is in the process of developing more stringent Florida-specific guidelines for homes qualified under Version 3. Therefore the numbers shown for Version 3.0 are subject to change.

\*\* To earn the Energy Star label under v2.5 of the program, homes in Florida shall achieve a HERS Index of 77 or lower.

Same house but more of the characteristics of the home changed for demonstration purposes.

The Energy Star Reference Design Home HERS Index and the Energy Star HERS index Target changes. The Energy Star HERS Index target for this home is now 62 and does not meet the criteria for Energy Star version 3.0 or 2.5.

The HERS Index is now 84. Florida's criteria is HERS of 77

# ENERGY STAR SPLASH SCREEN

Energy Star Summary

### Energy Star Summary (Version 3)

State:	FL
Building Type:	Single-family detached
Conditioned Area Non-Basement (sq. ft.):	2400
Bedrooms Non-Basement:	2
Conditioned Area Benchmark:	1600
Size Adjustment Factor:	0.90

---

Energy Star Reference Design Home HERS Index :	69
Energy Star HERS Index Target :	62

---

HERS Index (without PV) :	67
HERS Index (with PV) :	N/A

**Energy Star HERS Index Status V 3.0 \* FAIL**

**Energy Star HERS Index Status V 2.5 \*\*: PASS**

You will also need to complete on-site inspection checklists and the home needs to be registered with your rating provider to comply.

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\* Because Florida's energy code is anticipated to become more stringent beginning January 2012, EPA is in the process of developing more stringent Florida-specific guidelines for homes qualified under Version 3. Therefore the numbers shown for Version 3.0 are subject to change.

\*\* To earn the Energy Star label under v2.5 of the program, homes in Florida shall achieve a HERS Index of 77 or lower.

Home now passes version 2.5 with a HERS Index of 77 but fails version 3.0 because the HERS Index is 67 – 5 points greater than the ENERGY STAR HERS Index target of 62. Since this does not meet the ENERGY STAR HERS Index target we will have to make changes to the envelope and/or systems to at least meet the target of 62. The HERS ENERGY STAR Reference Design Home is 69 and since we are below that HERS Index at 67, we can also use PV to overcome the 5 points

# ENERGY STAR SPLASH SCREEN

Energy Star Summary

## Energy Star Summary (Version 3)

State:	FL
Building Type:	Single-family detached
Conditioned Area Non-Basement (sq. ft.):	2400
Bedrooms Non-Basement:	2
Conditioned Area Benchmark:	1600
Size Adjustment Factor:	0.90

---

Energy Star Reference Design Home HERS Index :	69
Energy Star HERS Index Target :	62

---

HERS Index (without PV) :	67
HERS Index (with PV) :	-7

---

**Energy Star HERS Index Status V 3.0 \*      PASS**

**Energy Star HERS Index Status V 2.5 \*\*:      PASS**

You will also need to complete on-site inspection checklists and the home needs to be registered with your rating provider to comply.

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\* Because Florida's energy code is anticipated to become more stringent beginning January 2012, EPA is in the process of developing more stringent Florida-specific guidelines for homes qualified under Version 3. Therefore the numbers shown for Version 3.0 are subject to change.

\*\* To earn the Energy Star label under v2.5 of the program, homes in Florida shall achieve a HERS Index of 77 or lower.

Taking the home and using PV to overcome the 5 point deficit.

# Thank you

(A Special thanks to EPA's ENERGY STAR  
Team for this session)

For a free “try before you buy”

[www.EnergyGauge.com](http://www.EnergyGauge.com)

Click on USA Residential  
Tech Support  
321-638-1492



**THE END**