

Residential Energy Assessment Program Tool User Guide

Version 08 31 2022



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1. Residential Energy Assessment Overview

Overview

To ensure that the latest version is being used, check the NYSERDA website for updates: [Become a Participating Auditor](#)

This tool is for use in conducting residential energy assessments in NYSERDA's Residential Energy Assessment Program. To be eligible for reimbursement through the Residential Energy Assessment Program, participating contractors will need to complete an energy assessment following the Residential Energy Assessment Technical Requirements found in the Program Manual, complete the data inputs in this tool, provide a PDF file or a hard copy of the Summary Report to the customer and upload the completed Excel file to the Residential Energy Assessment Workflow in the NY HP Portal.

The Tool includes the following worksheets (tabs) for use by the Participating Contractor including:

Data Collection Worksheet – Use this worksheet to enter the existing conditions of the home and to make energy efficiency improvement recommendations. The existing conditions fields are on the left-hand side of the page; complete this portion first. The existing conditions fields are yellow and depending on the measure type may feature drop down lists to help speed data input. The corresponding Recommended Measure Upgrades consist of green fields and are located on the righthand side of the page.

Summary Report Worksheet – This worksheet is dynamic and will updated based on the inputs entered in the Data Collection worksheet. No data inputs are required in this worksheet. The Summary Report is intended to provide homeowners with a snapshot of their home's existing conditions, including areas performing well and areas in need of improvement. It is not intended to be a workscope quote and therefore does not include costs.

After completion of the data entry in the first worksheet, use the Print button to generate a copy of the Assessment Summary Report to provide either in hard copy or electronically to the customer. The Assessment Tool Excel file must not be provided to customers - only a PDF file or a hard copy of the Assessment Summary Report should be provided to the customer.

Estimated annual savings as displayed on the Assessment Summary report are energy savings as a percentage of total energy usage – these savings percentages do not represent dollar savings.

The Tool also includes two tabs or worksheets to support the Green Jobs – Green NY (GJGNY) Residential Financing program. The **Loan Step 1** tab is used to select the upgrade(s) being financed and their cost(s). The **Loan Step 2 Web ProForma Inputs** tab contains information to be entered into the **Green Jobs – Green NY (GJGNY) Residential Loan Fund's Web ProForma tool**. The loan tabs are not a required part of a Residential Energy Assessment. For instructions related to the use of these tabs please refer to the Financing Implementation Manual.

Data Accuracy and Completeness

The Residential Energy Assessment tool requires complete data entry on the Data Collection tab in order to make accurate modeling calculations. If messages display or the results on the Summary Report aren't what is expected, review yellow existing condition fields on the Data Collection tab. Ensure that all fields are filled in and the entries are accurate.

Help Text and Data Validation Messages

The Residential Energy Assessment tool utilizes help text and data validation messages when certain cells are clicked on or when data outside of the validation limits is entered. Please see examples below of typical messaging is used in the Tool.

Help text message example

Enter the square footage of windows for this wall. Leave this blank to have the tool calculate square footage automatically based on windows as % of wall area entered to the left.

Data validation messaging example

Primary Heating and Cooling Equipment		Notes
Primary Heating Fuel Type	Oil	*Furnace efficiency MUST be at least 72%
Primary Heating System Type	Furnace	
Primary Heat System Capacity (btu/h)	80000	
Primary Furnace AFUE	65.0	

2. Data Collection - Existing Conditions

The Participating Contractor is required in input data into each existing condition field, if the system is applicable to the home. It is recommended that the auditor completes all Existing Conditions fields prior to entering the recommended upgrades. If a field isn't applicable, leave it blank.

Assessment information & Customer information

Enter the auditor's name, the company name and date of the assessment.

Auditor's Name	Joe Auditor
Company Name	Happy Heat Pumps Inc.
Assessment Date	August 22, 2022

Complete all of the customer information.

Customer Information	
Name	Customer
Address	123 Main Street
City	Albany
State	NY
Zip	12203
Phone Number (Primary)	555-555-5555
Email Address (Primary)	xyz@e-mail.com

Basic Building and Demographic Information

Complete all the yellow fields in this section. Select the Year House Built by clicking the dropdown arrow then clicking the appropriate choice.

Basic Building & Demographic Information	
Year House Built	Between 1979 and 2007
Number of Bedrooms	Before 1979
Total Living Area	Between 1979 and 2007
Stories	After 2007
Number of Full-Time Occupants	

Air Infiltration

Categorize the air infiltration of the home by selecting High, Medium or Low air infiltration from the drop-down list.

Air Infiltration	
Infiltration	Medium
Insulation	High
Attic / Roof #1	Medium
	Low

Insulation

Insulation	Insulation R-value	Area (sq. ft.)	Notes
Attic / Roof #1			
Attic / Roof #2			
Attic / Roof #3			
Walls: Exposed to Exterior & Band Joist			
Walls: Masonry			
Walls: Adjoining Enclosed Space			
Floors: Over exterior area			
Floors: Over basement, crawlspace, other enclosed space			
Foundation Insulation	Insulation R-value	Perimeter (linear ft.)	
Basement Wall Insulation			
Crawlspace Wall Insulation			

For each insulation area, choose the R-value from the drop-down list that most closely represents the level of existing insulation in that area. Choose the closest R-value to the existing condition that is higher than the existing condition. For example, if the existing condition is R-9, select R-11 from the drop-down list. Choose “1: None” if that area doesn’t have any insulation.

Insulation	Insulation R-value	Area (sq. ft.)	Notes
Attic / Roof #1	1: None		
Attic / Roof #2	2: R-5		
Attic / Roof #3	3: R-11		
Walls: Exposed to Exterior & Band Joist	4: R-19		
Walls: Adjoining Enclosed Space	5: R-30+		
Floors: Exposed to Exterior & Band Joist	6: Unknown		
Floors: Adjoining Enclosed Space			

Assessment Data Collection Field	Building Area(s) To Include
Walls: Exposed to Exterior & Band Joist	Exterior wall and rim joist insulation
Walls: Masonry	Masonry exterior wall insulation
Walls: Adjoining Enclosed Space	Attic knee walls and house wall between house and garage
Floors: Over exterior area	Floors over cantilevered exterior area and walls over pier structure
Floors: Over basement, crawlspace, other enclosed space	Floors over a basement, crawlspace or other enclosed area
Basement Wall Insulation	Do not include rim joist (include rim joist in wall insulation) Enter linear feet of basement wall
Crawlspace Wall Insulation	Do not include rim joist (include rim joist in wall insulation) Enter linear feet of crawlspace wall

- For all areas, indicate the square footage of that area of the structure.
- Discount or de-rate insulation levels for incomplete areas where some insulation is missing.
- Discount insulation levels for poor installation.
- Only complete the insulation areas that are relevant to the home being evaluated. For example, not all homes will have multiple attic areas. If the home being evaluated has only one attic area, leave Attic/Roof # 2 and Attic/Roof # 3 blank.

Insulation	Insulation R-value	Area (sq. ft.)
Attic / Roof #1		
Attic / Roof #2		
Attic / Roof #3		
Walls: Exposed to Exterior & Band Joist		
Walls: Adjoining Enclosed Space		
Floors: Exposed to Exterior & Band Joist		
Floors: Adjoining Enclosed Space		

Fill in sq ft if there is more than one attic area defined OR if the actual attic area is known

Windows

Windows: Predominant Window Type

Windows	
Predominant Type	
% of wall that is windows or Sq Ft of windows:	<ul style="list-style-type: none">1a: Single, Metal1b: Single, Metal with Thermal Break1c: Single, Wood1d: Single with Storm, Metal1e: Single with Storm, Metal with Thermal Break1f: Single with Storm, Wood2a: Double, Metal2b: Double, Metal with Thermal Break

Choose the predominant type of windows present in the home from the drop-down list.

Make sure that a selection is made in the window drop down. Leaving this field blank will result in errors.

Windows: Window Area

Windows			
Predominant Type			
% of wall that is windows or Sq Ft of windows:		%	Area (sq. ft.)
North	▼	15%	▼
South		15%	
East		15%	
West		15%	

Enter the % of this wall that is windows. Alternatively, you can enter actual window square footage for this wall to the right. Leaving % and square footage blank will result in default value of 15% being used.

Enter the square footage of windows for this wall. Leave this blank to have the tool calculate square footage automatically based on windows as % of wall area entered to the left.

Primary Heating and Cooling Equipment

Primary Heating Fuel Type

The Primary heating system is the one serving most of the house and usually permanently installed to service at least the main or original portion of the home. In homes with one heating system, enter all details under Primary Heating and Cooling Equipment.

Choose the primary heating fuel type from the drop-down list.

Primary Heating and Cooling Equipment

Primary Heating Fuel	<input type="text" value=""/>
Primary Heating System	<input type="text" value=""/>
Primary Heat System Capacity	<input type="text" value=""/>

- Electricity
- Kerosene
- NaturalGas
- Oil
- Pellets
- Propane
- Wood

Options in the Primary Heating System Type will vary depending on the Primary Heating Fuel selected. Changing the fuel will change the heating system types available to select.

Primary Heating Fuel	<input type="text" value="NaturalGas"/>
Primary Heating System Type	<input type="text" value=""/>

- Furnace
- Boiler

After selecting the Primary heating fuel and system type, select the capacity, efficiency, and other information. Some of these prompts will vary depending on the system and fuel.

Primary Heat System Capacity (btu/h)	<input type="text" value=""/>
Primary Furnace AFUE	<input type="text" value=""/>
Primary Furnace variable speed fan?	<input type="text" value=""/>
Primary heating system year of mfg	<input type="text" value=""/>

Primary Cooling Equipment Capacity and SEER

If the home has central air conditioning, enter the capacity and efficiency.

Primary A/C Capacity (btu/h)	<input type="text" value=""/>
Primary A/C SEER	<input type="text" value=""/>

Primary Duct System

Primary Duct System – Duct Location

If the home has any ducts, these fields will be displayed. Complete all fields to avoid calculation errors and increase accuracy of the assessment. Use the Rval fields to enter the duct insulation R-values.

Primary System Ducts	
Primary Supply Location	
Primary Return Location	
Supply Insulation Rval	
Return Insulation Rval	
Ducts currently sealed adequately?	

Leaving the Rval fields blank will result in R-0 being used as the duct insulation levels.


If the home has ductless mini-splits, select “Conditioned Space (all ducts)” as the Primary Supply Location and Primary Return Location

Secondary Heating Equipment

If there is a secondary heating system use the drop-down list indicate the type of system. Also input the secondary heating system capacity and the year of manufacture. If there is no secondary system, leave blank.

Secondary Heating Equipment	
Secondary Heating System Type	Heat Pump
Secondary Heat System Capacity (btu/h)	12000
Heat Pump HSPF	8.0
Secondary heating system year of mfg	2020

Thermostat

Thermostat:
Current Thermostat 

Enter in the drop-down the current type of thermostat.

Room/Window AC

Room / Window Air Conditioner:	
Room A/C Present?	<input type="text"/>
Existing Room A/C CEER	9

Select yes or no from the Room AC present field. Existing Room AC CEER defaults to 9 and cannot be changed.

Water heater and Water Usage

Select the fuel and system type of the existing hot water system, along with insulation and Efficiency Factor.

Water Heating and Water Usage	
Water Heating Fuel	Natural Gas
System Type	Storage
Tank wrap R-Value	0
Water Heater EF	0.9

Appliances

Appliances	
Existing Primary Refrigerator Efficiency	<input type="text"/>
Existing Secondary Refrigerator/ Standalone Freezer Efficiency	<input type="text"/> <ul style="list-style-type: none"> Not ENERGY STAR ENERGY STAR / CEE Tier 1 CEE Tier 2 ENERGY STAR Most Efficient / CEE Tier 3
Existing Clothes Washer Efficiency	<input type="text"/>
Existing Dishwasher Efficiency	<input type="text"/>
Existing Dehumidifier Energy Factor	<input type="text"/>
Existing Dehumidifier Vintage	<input type="text"/>
Existing Dehumidifier Pints Per Day	<input type="text"/>

Select the appropriate efficiency designation from the drop-down for each of the appliances in this section. If an appliance is not present in the home, leave the field blank.

Electrical

Electrical	
Lighting	
Existing Incandescent % of Lighting	50%
Existing CFL % of Lighting	25%
Existing LED % of Lighting	25%
Electrical Panel	
Panel Type	Breakers
Main Breaker Size	100

Enter the estimated percentage of existing lighting by bulb type listed. The total percentage listed must equal 100%.

Enter the electrical panel type and main breaker size. This data is being collected to support future residential electrification efforts, so at this time this information does not print on the Summary Report and no upgrade fields are available.

Water

Water	
Existing Showerheads	<input type="text" value=""/>
Existing Faucet Aerators	<input type="text" value="Non-rated (not Water saving)"/>
	Better: Water saving (2.5 gal/min)
	Best: Water Sense (1.5 gal/min)

Select from the drop-down to indicate the relative efficiency of existing shower heads. If there is a mix of showerheads in the home, select the applicable type of water savings shower heads from the drop down.

Water	
Existing Showerheads	<input type="text" value=""/>
Existing Faucet Aerators	<input type="text" value=""/>
	Yes
	No

Select yes or no from the drop-down to indicate the existence of faucet aerators. If some faucets have aerators and others do not, then select yes from the drop down.

Remote Assessment Indicator

Notes

Remote energy audit and low/no touch strategies were used to conduct this assessment?

No

Use the Yes/No drop-down list to indicate if remote and low/no touch strategies were used to conduct this Assessment.

Health and Safety

Document any other finding and/or any potential hazards or health & safety issues, with recommendations on how to resolve:

Document all health and safety issues and recommendations for resolution. Include any other notes from the home. Notes entered into this field will automatically populate to the Summary Report for the customer. All comments shall be written in a manner that is helpful to the customer.

3. Recommended Measures Upgrade

Complete the **Recommended Upgrade Measures:** section for each measure that should be upgraded, regardless of whether your company sells or installs those measures. These recommendations must provide homeowners with a complete view of the path to a more efficient, more comfortable home.

If an area does not need an upgrade, leave the field blank.

Air Infiltration

Select yes or no from the dropdown to indicate if air sealing is being recommended.

Air Sealing (Y/N)	Yes
Target Infiltration Improvement %	11-15%
Attic / Roof #1	R-
Attic / Roof #2	
Attic / Roof #3	
Walls: Exposed to Exterior & Basement	

If air sealing the house, make sure "Air Sealing (Y/N)" above has been set to "Yes," AND infiltration improvement percentage has been entered.

If Infiltration is selected as "Low" in the existing conditions, then an air sealing improvement cannot be recommended.

Select the Target Infiltration Improvement percentage as a result of the proposed air sealing.

Air Sealing (Y/N)	Yes
Target Infiltration Improvement %	<ul style="list-style-type: none"> 1-5% 6-10% 11-15% 16-20% 21-25% 26-30% 31-35% 36-40%
Attic / Roof #1	
Attic / Roof #2	
Attic / Roof #3	
Walls: Exposed to Exterior & Basement	

Insulation

For each of the insulation areas where recommendations are being proposed, select the R-value from the drop-down list that represents the R-value of the area after the upgrade.

Attic / Roof #1	
Attic / Roof #2	34
Attic / Roof #3	35
Walls: Exposed to Exterior & Basement	36
Walls: Adjoining Enclosed	37
Floors: Exposed to Exterior & Basement	38
Floors: Adjoining Enclosed	39
Basement Walls	40
Crawlspace Walls	41

When you are recommending basement or crawlspace insulation upgrades, the number of linear feet of basement or crawl space walls must be entered in the existing conditions section of the tool in order to generate results in the Summary Report.

Windows

If window upgrades are recommended, enter the details here:

Replacement Windows	U-Value	<input type="text"/>
or	SHGC ("Solar Heat Gain Co-eff")	<input type="text"/>
Storm Windows	Add Storms	<input type="text"/>
% of Windows Being Upgraded		<input type="text"/>

Leave blank if no upgrade recommended
You MUST enter the % Windows Being Upgraded

Select from the drop down list the u-value of the recommended window.

Replacement Windows	U-Value	<input type="text"/>
or	SHGC ("Solar Heat Gain Co-eff")	<input type="text"/>
Storm Windows	Add Storms	<input type="text"/>

Select from the drop down list the Solar Heat Gain Coefficient of the recommended window.

Replacement Windows	U-Value	<input type="text"/>
or	SHGC ("Solar Heat Gain Co-eff")	<input type="text"/>
Storm Windows	Add Storms	<input type="text"/>

From the drop-down list select the percentage of the home's windows that are being recommended for upgrade.

Replacement Windows	U-Value	<input type="text"/>
or	SHGC ("Solar Heat Gain Co-eff")	<input type="text"/>
Storm Windows	Add Storms	<input type="text"/>
% of Windows Being Upgraded		<input type="text"/>
complete applicable upgrade options below		
option: Upgrade heating system with same fuel type	Replacement Unit	<input type="text"/>
option: Upgrade oil heat to gas	New Gas Unit	<input type="text"/>

If the existing windows are single-pane then storm windows will be an option. Select from the Yes / No drop-down list to indicate whether storm windows are recommended.

Replacement Windows	U-Value	<input type="text"/>
SHGC ("Solar Heat Gain Co-eff")		<input type="text"/>
or		or
Storm Windows	Add Storms	<input type="text"/>
	Yes	<input type="text"/>
	No	<input type="text"/>
% of Windows Being Upgraded		<input type="text"/>

From the drop-down list select the percentage of the windows that are being recommended for upgrade by adding storm windows.

Replacement Windows	U-Value	<input type="text"/>
SHGC ("Solar Heat Gain Co-eff")		<input type="text"/>
or		or
Storm Windows	Add Storms	<input type="text"/>
	Yes	<input type="text"/>
	No	<input type="text"/>
% of Windows Being Upgraded		<input type="text"/>
complete applicable upgrade options below		
Option: Upgrade heating system with same fuel type	Replacement Unit	<input type="text"/>
Option: Upgrade oil heat to gas	New Gas Unit	<input type="text"/>

Primary Heating and Cooling Equipment

In the Primary Heating and Cooling recommended upgrade fields enter the information for the efficiency and size of the recommended equipment.

These fields are dynamic, and the available options will change depending on the existing fuel type and the type of existing equipment.

Example 1

In example 1 below, the existing fuel is natural gas so the options of upgrading to a more efficient gas unit or air-source heat pumps are available.

Complete applicable upgrade options below

Option: Upgrade heating system with same fuel type	Replacement Unit AFUE	98
Option: Upgrade Heating & Cooling with Air-Source Heat Pump (ASHP)	ASHP Type/Scenario	

Example 2

In example 2 the existing fuel is oil so the only option is to upgrade to air-source heat pump(s).

Complete applicable upgrade options below

Option: Upgrade Heating & Cooling with Air-Source Heat Pump (ASHP)	ASHP Type/Scenario	

When selecting Air-Source Heat Pump(s)

Select recommended ASHP type and scenario from the drop-down list.

Complete applicable upgrade options below

Option: Upgrade heating system with same fuel type	Replacement Unit AFUE	
Option: Upgrade Heating & Cooling with Air-Source Heat Pump (ASHP)	ASHP Type/Scenario	1a,d-Centrally-Ducted ASHP, FULL-LOAD
Upgrade Central A/C With Like Unit	Replacement A/C SEER	n/a 1a,d-Centrally-Ducted ASHP, FULL-LOAD 2a,b,c-Mini-Split (Ductless) ASHP, PARTIAL 2g,h-Mini-Split (Ductless) ASHP, FULL-LOAD 3a-Multi-Split ASHP, PARTIAL 3b,c-Multi-Split ASHP, FULL-LOAD 4a,b-Compact Ducted Mini-Split, PARTIAL 4c,d-Compact Ducted Mini-Split, FULL-LOAD

For each ASHP unit being installed enter the heating and cooling capacity, the HSPF and the SEER in the appropriate fields.

Recommended ASHP Upgrade Units				
	Htg Capacity	HSPF	Clg Capacity	SEER
	at 5F (Btu/h)	(Btu/Wh)	at 95F (Btu/h)	(Btu/Wh)
ASHP Unit 1	100,000	8	80,000	15
ASHP Unit 2				
ASHP Unit 3				
ASHP Unit 4				
ASHP Unit 5				
Total/ Weighted Avg	100,000	8	80,000	15.0

The total heat pump capacity must be aligned with the home's heating load. If the value entered in the heating capacity field is too large or too small, a message will display indicating that you must enter a heating capacity value that falls in this range.

Complete applicable upgrade options below

Same system upgrade not applicable	
Option: Upgrade Heating & Cooling with Air-Source Heat Pump (ASHP)	ASHP Type/Scenario 2g,h-Mini-Split (Ductless) ASHP, FULL-LOAD
The Total Building load is 62,823 Btu/h. Total heat pump heating capacity must be between 60% and 180% of total building heat load.	
Upgrade Central A/C With Like Unit	Replacement A/C SEER

If your company is not sizing a heat pump system for this home, use these tips to size ASHP Unit 1 below to represent the savings available to the homeowner: This home's total heating load is expected to be around 62,823 Btu/h. HSPFs range from 8.3 to 15. Cooling capacity is similar to heating capacity. SEERs range from 13 to 20.

Recommended ASHP Upgrade Units				
	Htg Capacity	HSPF	Clg Capacity	SEER
	at 5F (Btu/h)	(Btu/Wh)	at 95F (Btu/h)	(Btu/Wh)
ASHP Unit 1	120,000	12	120,000	20
ASHP Unit 2				
ASHP Unit 3				
ASHP Unit 4				
ASHP Unit 5				
Total/ Weighted Avg	120,000	12	120,000	20

Entering a valid system capacity in the Heating Capacity field will resolve the error message.

Example 3

If you are recommending upgrading an existing heat pump to a new higher efficiency heat pump, then use the inputs

illustrated in the image below. Do not input information into the ASHP/Scenario field when upgrading from an existing heat pump to a new higher efficiency heat pump. In instance where you are recommending an upgrade to a heat pump from any other type of system use the process described below in example 4.

Primary Heating and Cooling Equipment			
Primary Heating Fuel	Electricity	Option: Upgrade heating system with same fuel type	Replacement Unit HSPF
Primary Heating System Type	Heat Pump		8
Primary Heat System Capacity (btu/h)	100000		
Heat Pump HSPF	6.5	Option: Upgrade Heating & Cooling with Air-Source Heat Pump (ASHP)	ASHP Type/Scenario
Primary heating system year of mfg	2000		#N/A

Primary Duct System

Primary Duct System – Duct Sealing

Duct Sealing

Yes

No

Options available in the duct sealing drop down list are dependent on the selection of the existing condition for duct sealing. If the existing condition indicates that the ducts have been sealed prior to the Assessment, skip this upgrade recommendation.

Secondary Heating Equipment

Example 1

Replacement AFUE

Example 2

Replacement HSPF

Like the primary heating equipment, the recommended upgrade fields are dynamic, and the available inputs will change based on the type of existing equipment selected on the secondary heating system existing conditions inputs. In Example 1 the existing secondary heating system is a fossil fuel furnace therefore the input for the new system is an AFUE. In Example 2 the existing secondary heating system is a heat pump so the input for the new system is an HSPF.

Thermostat

New Thermostat

Programmable
Learning
WiFi

If the upgraded thermostat is Wi-Fi capable AND learns occupant patterns, choose "Learning"

Room/Window AC

New Room A/C CEER

Minimum Value
Upgraded Room AC must have an efficiency rating equal to or greater than 10.5

Water heater

These fields are dynamic, and the available options will change depending on the existing fuel type and the type of existing equipment.

Select the water heater fuel of the upgraded system from the drop-down list.
Select the water heater type of the upgraded system from the drop-down list.

Water Heating Fuel	Electricity
Replacement Type	Heat Pump (independent)
UEF	2.2
3' sections of pipe insulation	

Enter the UEF of the recommended system. For new heat pump water heaters use 2.2 for the UEF unless otherwise specified by the manufacturer.

Enter a value of no greater than 3 in the 3' section of pipe insulation field.

Appliances

New Primary Refrigerator Efficiency	ENERGY STAR / CEE Tier 1
New Secondary Refrigerator/ Standalone Freezer Eff	CEE Tier 2
New Clothes Washer Efficiency	ENERGY STAR Most Efficient / CEE Tier 3
New Dishwasher Efficiency	
New Dehumidifier Energy Factor	

Select the appropriate efficiency designation from the drop-down for each of the appliances in this section.

Appliances – Dehumidifier Energy Factor

New Dehumidifier Energy Factor	1.0
	1.1
	1.2
	1.3
Upgraded LI	1.4
Incandescent % of LI	1.5
CFL % of LI	1.6
	1.7

Select the appropriate dehumidifier Energy Factor from the drop-down if recommending a dehumidifier.

Lighting

Upgraded Lighting	
Incandescent % of Lighting	<input type="text"/>
CFL % of Lighting	<input type="text"/>
LED % of Lighting	<input type="text"/>

Enter the recommended percentage lighting by the type listed. The total percentages listed must total 100%.

Water

Water – Shower Heads

New Showerheads	<input type="text"/>
New Faucet Aerators	<input type="text"/>

Better: Water saving (2.5 gal/min)
Best: Water Sense (1.5 gal/min)

Select from the drop down the upgraded shower head.

Water – Aerators

New Showerheads	<input type="text"/>
New Faucet Aerators	<input type="text"/>

Yes
No

Select from the drop down indicating in new faucet aerators were recommended.

**Data Collection Complete
Proceed To Next Step**

When data entry is complete, click the button to move on to the next tab in the Excel workbook file. Entries on the Data Collection tab will be automatically checked and messaging will display if any required fields are not completed.

If a macro security message displays, use the information from this page to learn how to enable macros for the NYSERDA Residential Energy Audit Tool:

<https://support.microsoft.com/en-us/topic/a-potentially-dangerous-macro-has-been-blocked-0952faa0-37e7-4316-b61d-5b5ed6024216>

If you're unable or uncomfortable enabling macros, then Tool will still work. Use the Excel tabs at the bottom of the screen to navigate to the Summary Report.

Data Collection	Summary Report	Loan Step 1	Loan Step 2 Web ProForma Inputs
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4. Summary Report

Residential Energy Assessment Summary Report



NYSERDA

Name: June Vargas
Address: 123 Main St
The City, NY 12020

Auditor's Name: Paolo Martine
Company Name: The Energy Savers
Date: August 12, 2022

No inputs required on this page

PRINT REPORT

Envelope Improvements

Measure	Below Average	Best Option	Existing Values	Recommended Upgrade	Estimated Annual Savings
Air Leakage	High Air Leakage → Low Air Leakage		Medium	Air Sealing	2.9%
Attic/Roof Insulation (R-value)	Area #1 Area #2 Area #3 R-0 R-11 R-19 R-60		R-19 n/a	R-49 Not Recommended Not Recommended	4.5%
Wall Insulation (R-value)	Exposed to Exterior & Rim Joist Adjoining Enclosed Space R-0 R-11 R-23		R-11 n/a	Not Recommended Not Recommended	n/a
Floor Insulation (R-value)	Over Exterior Over Enclosed Space R-0 R-19 R-39		n/a n/a	Not Recommended Not Recommended	n/a
Foundation Insulation (R-value)	Basement Crawlspace R-0 R-11 R-23		n/a n/a	Not Recommended Not Recommended	n/a
Replacement Windows (U-factor) (SHGC)	0.90 0.27 0.80 0.32		0.65 0.70	Not Recommended Not Recommended	n/a

This worksheet is dynamic and will update based on the inputs entered in the Data Collection worksheet (tab). No data inputs are required or allowed.

After completion of the data entry, select the Print Report button to generate a copy of the Summary Report to provide either in hard copy or electronically to the customer. The Assessment Tool Excel file must not be provided to customers - only a PDF file or a hard copy of the Summary Report should be provided to the customer.

Estimated annual savings as displayed on the Assessment Summary report are energy savings as a percentage of total energy usage – these savings percentages do not represent dollar savings.

A fact sheet for home electrification has been created for contractors to provide to homeowners along with each energy assessment. A fact can be downloaded from [here](#). Provide a PDF copy or hard copy to each customer.

5. Support

For questions or suggestions on this tool, contact HomeAudits@nyscrda.ny.gov.