**Home Energy Scoring Tool**

OMB Control #:  1910-5184

DOE HQ F 413.25

Exp. Date:  10/31/2019.

DOE HQ F 413.25



 **Data Collection Form**

**Location Information**

Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ City: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_\_\_\_\_

Assessment Type: **Initial** / **Final** / **QA** / **Alternative EEM** (Energy Efficiency Measures) / **Test** / **Corrected** / **Mentor** / **Preconstruction**

**Assessment Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Assessor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Comments:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Home Details**

Year Built: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ # of Bedrooms: **1** / **2** / **3** / **4** / **5** / **6** / **7** / **8** / **9** / **10** # of Stories Above Grade: **1** / **2** / **3** / **4**

Average Ceiling Height (ft): **6** / **7** / **8** / **9** / **10** / **11** / **12** Conditioned Floor Area (sq ft): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Direction Faced by Front of House: **N** / **NE** / **E** / **SE** / **S** / **SW** / **W** / **NW**

**Air Tightness**

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

Air Leakage rate: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **cfm50** Has the house been professionally air sealed?: **Yes** / **No**

**Roof / Attic 1** Attic 1 Area (sq ft): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Roof Construction: **Standard Roof** / **with Radiant Barrier** / **with Rigid Foam Sheathing**

Exterior Finish: **Composition Shingles or Metal** / **Wood Shakes** / **Clay Tile** / **Concrete Tile** / **Tar & Gravel**

Insulation Level (applied to roof): **R-0** / **R-11** / **R-13** / **R-15** / **R-19** / **R-21** / **R-27**/ **R-30**

Roof Color: **White** / **Light** / **Medium** / **Medium Dark** / **Dark** / **Cool Color**: **\_\_\_\_\_\_** (reflectivity)

Attic or Ceiling Type: **Unconditioned Attic** / **Conditioned Attic** / **Cathedral Ceiling**

Attic Floor Insulation: **R-0** / **R-3** / **R-6** / **R-9** / **R-11** / **R-19** / **R-21** / **R-25** / **R-30** / **R-38** / **R-44** / **R-49** / **R-60**

**Roof / Attic 2** Attic 2 Floor Area (sq ft): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Roof Construction: **Standard Roof** / **with Radiant Barrier** / **with Rigid Foam Sheathing**

Exterior Finish: **Composition Shingles or Metal** / **Wood Shakes** / **Clay Tile** / **Concrete Tile** / **Tar & Gravel**

Insulation Level (applied to roof): **R-0** / **R-11** / **R-13** / **R-15** / **R-19** / **R-21** / **R-27** / **R-30**

Roof Color: **White** / **Light** / **Medium** / **Medium Dark** / **Dark** / **Cool Color**: **\_\_\_\_\_\_\_\_\_\_** (reflectivity)

Attic or Ceiling Type: **Unconditioned Attic** / **Conditioned Attic** / **Cathedral Ceiling**

Attic Floor Insulation: **R-0** / **R-3** / **R-6** / **R-9** / **R-11** / **R-19** / **R-21** / **R-25** / **R-30** / **R-38** / **R-44** / **R-49** / **R-60**

**Foundation 1**  Foundation 1 Area (sq ft): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Type: **Slab-on-Grade** / **Unconditioned Basement** / **Conditioned Basement** / **Unvented Crawlspace** /

 **Vented Crawlspace**

Floor Insulation over Basement or Crawlspace: **R-0** / **R-11** / **R-13** / **R-15** / **R-19** / **R-21** / **R-25** / **R-30** / **R-38**

Foundation Wall Insulation: **R-0** / **R-5 (slab only)** / **R-11** **(bsmt/crawl wall)** / **R-19** **(bsmt/crawl wall)**

**Foundation 2**  Foundation 2 Area (sq ft): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Type: **Slab-on-Grade** / **Unconditioned Basement** / **Conditioned Basement** / **Unvented Crawlspace** /

 **Vented Crawlspace**

Floor Insulation over Basement or Crawlspace: **R-0** / **R-11** / **R-13** / **R-15** / **R-19** / **R-21** / **R-25** / **R-30** / **R-38**

Foundation Wall Insulation: **R-0** / **R-5 (slab only)** / **R-11** **(bsmt/crawl wall)** / **R-19** **(bsmt/crawl wall)**

**Walls**

Is this home a Townhouse or Duplex?: **Yes** / **No** Position of Unit: **Middle** / **Right** / **Left**

Wall Characteristics: **Front** or **All** (circle one)

Construction: **Wood Frame** / **Wood Frame with rigid foam sheathing** / **Wood Frame with Optimum Value Engineering (OVE)** / **Structural Brick** / **Concrete Block or Stone** / **Straw Bale**

Exterior Finish: **Wood Siding, Fiber Cement, Composite Shingle or Masonite Siding** / **Stucco** / **Vinyl Siding** / **Aluminum Siding** / **Brick Veneer** / **none**

Wall Insulation: **R-0** / **R-3** / **R-6** / **R-7** / **R-11** / **R-13** / **R-15** / **R-19** / **R-21** / **R-27** / **R-33** / **R-38**

**Skylights: Yes** or **No (circle one):**

Total Skylight Area (sq. ft.): \_\_\_\_\_\_\_\_\_\_ Number of Panes: **Single-pane** / **Double-pane** / **Triple-pane**

Frame Type: **Aluminum** / **Aluminum with Thermal Break** / **Wood or Vinyl**

Glazing Type: **Clear** / **Tinted** / **Solar-control low-E** / **Solar-control low-E, argon gas fill** / **Insulating low-E** / **Insulating low-E, argon gas fill**

**-OR-** Actual window specifications = U-Factor (from 0.01 – 5.00): \_\_\_\_\_\_\_\_\_ SHGC (from 0.0 – 1.0): \_\_\_\_\_\_

**Window Area (sq. ft.):**

Front: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Back: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Right Side: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Left Side: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Window Characteristics:** **Front** or **All** (circle one) Solar Screens: **Yes** / **No**

Panes: **Single-pane** / **Double-pane** / **Triple-pane**

Frame Type: **Aluminum** / **Aluminum with Thermal Break** / **Wood or Vinyl**

Glazing Type: **Clear** / **Tinted** / **Solar-control low-E** / **Solar-control low-E, argon gas fill** / **Insulating low-E** / **Insulating low-E, argon gas fill**

**-OR-** Actual window specifications = U-Factor (from 0.01 – 5.00): \_\_\_\_\_\_\_\_\_\_ SHGC (from 0.0 – 1.0): \_\_\_\_\_\_\_\_

**>BACK<**

**Wall Characteristics: Back**

Construction: **Wood Frame** / **Wood Frame with Rigid Foam Sheathing** / **Wood Frame with Optimum Value Engineering (OVE)** / **Structural Brick** / **Concrete Block or Stone** / **Straw Bale**

Exterior Finish: **Wood Siding, Fiber Cement, Composite Shingle or Masonite Siding** / **Stucco** / **Vinyl Siding** / **Aluminum Siding** / **Brick Veneer**

Wall Insulation: **R-0** / **R-3** / **R-6** / **R-7** / **R-11** / **R-13** / **R-15** / **R-19** / **R-21** / **R-27** / **R-33** / **R-38**

**Window Characteristics: Back** Solar Screens: **Yes** / **No**

Panes: **Single-pane** / **Double-pane** / **Triple-pane**

Frame Type: **Aluminum** / **Aluminum with Thermal Break** / **Wood or Vinyl**

Glazing Type: **Clear** / **Tinted** / **Solar-control low-E** / **Solar-control low-E, argon gas fill** / **Insulating low-E** / **Insulating low-E, argon gas fill**

**-OR-** Actual window specifications = U-Factor (from 0.01 – 5.00): \_\_\_\_\_\_\_\_\_\_ SHGC (from 0.0 – 1.0): \_\_\_\_\_\_\_\_

**>RIGHT SIDE<**

**Wall Characteristics: Right Side (facing house)**

Construction: **Wood Frame** / **Wood Frame with Rigid Foam Sheathing** / **Wood Frame with Optimum Value Engineering (OVE)** / **Structural Brick** / **Concrete Block or Stone** / **Straw Bale**

Exterior Finish: **Wood Siding, Fiber Cement, Composite Shingle or Masonite Siding** / **Stucco** / **Vinyl Siding** / **Aluminum Siding** / **Brick Veneer**

Wall Insulation: **R-0** / **R-3** / **R-6** / **R-7** / **R-11** / **R-13** / **R-15** / **R-19** / **R-21** / **R-27** / **R-33** / **R-38**

**Window Characteristics: Right Side (facing house)** Solar Screens: **Yes** / **No**

Panes: **Single-pane** / **Double-pane** / **Triple-pane**

Frame Type: **Aluminum** / **Aluminum with Thermal Break** / **Wood or Vinyl**

Glazing Type: **Clear** / **Tinted** / **Solar-control low-E** / **Solar-control low-E, argon gas fill** / **Insulating low-E** / **Insulating low-E, argon gas fill**

**-OR-** Actual window specifications = U-Factor (from 0.01 – 5.00): \_\_\_\_\_\_\_\_\_\_ SHGC (from 0.0 – 1.0): \_\_\_\_\_\_\_\_

**>LEFT SIDE<**

**Wall Characteristics: Left Side (facing house)**

Construction: **Wood Frame** / **Wood Frame with Rigid Foam Sheathing** / **Wood Frame with Optimum Value Engineering (OVE)** / **Structural Brick** / **Concrete Block or Stone** / **Straw Bale**

Exterior Finish: **Wood Siding, Fiber Cement, Composite Shingle or Masonite Siding** / **Stucco** / **Vinyl Siding** / **Aluminum Siding** / **Brick Veneer**

Wall Insulation: **R-0** / **R-3** / **R-6** / **R-7** / **R-11** / **R-13** / **R-15** / **R-19** / **R-21** / **R-27** / **R-33** / **R-38**

**Window Characteristics: Left Side (facing house)** Solar Screens: **Yes** / **No**

Panes: **Single-pane** / **Double-pane** / **Triple-pane**

Frame Type: **Aluminum** / **Aluminum with Thermal Break** / **Wood or Vinyl**

Glazing Type: **Clear** / **Tinted** / **Solar-control low-E** / **Solar-control low-E, argon gas fill** / **Insulating low-E** / **Insulating low-E, argon gas fill**

**-OR-** Actual window specifications = U-Factor (from 0.01 – 5.00): \_\_\_\_\_\_\_\_\_\_ SHGC (from 0.0 – 1.0): \_\_\_\_\_\_\_\_

**System 1** % of floor area served: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Heating (System 1)**

Type of Heating 1 System: **None** / **Central gas furnace** / **Room (through-the-wall) gas furnace** / **Gas boiler** / **Propane (LPG) central furnace** / **Propane (LPG) wall furnace** / **Propane (LPG) boiler** / **Oil furnace** / **Oil Boiler** / **Electric furnace** / **Electric heat pump** / **Electric baseboard heater** / **Ground coupled heat pump** / **Minisplit (ductless) heat pump** / **Electric boiler** / **Wood Stove** / **Pellet Stove**

**Heating System 1 Efficiency:** Do you know the actual heating system efficiency?: **Yes** / **No\***

**\***You can use the Assessor Calculator to determine the approximate efficiency!

Efficiency Value (AFUE or HSPF): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **OR**  Year Installed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Cooling (System 1)**

Type of Cooling 1 System: **None** / **Central air conditioner** / **Room air conditioner** / **Electric heat pump** / **Minisplit (ductless) heat pump** / **Ground coupled heat pump** / **Direct evaporative cooling**

**Cooling System 1 Efficiency:** Do you know the actual cooling system efficiency?: **Yes** / **No\***

**\***You can use the Assessor Calculator to determine the approximate efficiency!

Efficiency Value (SEER or EER): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **OR**  Year Installed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Duct (System 1)**

Duct Location 1 (#1): **Conditioned Space** / **Unconditioned basement** / **Vented crawlspace** / **Unvented crawlspace** / **Unconditioned attic**

Percentage of Ducts in this location: **\_\_\_\_\_\_\_\_\_\_** Are ducts sealed?: **Yes** / **No** Are ducts insulated?: **Yes** / **No**

Duct Location 1 (#2): **Conditioned Space** / **Unconditioned basement** / **Vented crawlspace** / **Unvented crawlspace** / **Unconditioned attic**

Percentage of Ducts in this location: **\_\_\_\_\_\_\_\_\_\_** Are ducts sealed?: **Yes** / **No** Are ducts insulated?: **Yes** / **No**

Duct Location 1 (#3): **Conditioned Space** / **Unconditioned basement** / **Vented crawlspace** / **Unvented crawlspace** / **Unconditioned attic**

Percentage of Ducts in this location: **\_\_\_\_\_\_\_\_\_\_** Are ducts sealed?: **Yes** / **No** Are ducts insulated?: **Yes** / **No**

**System 2** % of floor area served: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Heating (System 2)**

Type of Heating 2 System: **None** / **Central gas furnace** / **Room (through-the-wall) gas furnace** / **Gas boiler** / **Propane (LPG) central furnace** / **Propane (LPG) wall furnace** / **Propane (LPG) boiler** / **Oil furnace** / **Oil Boiler** / **Electric furnace** / **Electric heat pump** / **Electric baseboard heater** / **Ground coupled heat pump** / **Minisplit (ductless) heat pump** / **Electric boiler** / **Wood Stove** / **Pellet Stove**

**Heating System 2 Efficiency:** Do you know the actual heating system efficiency?: **Yes** / **No\***

**\***You can use the Assessor Calculator to determine the approximate efficiency!

Efficiency Value (AFUE or HSPF): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **OR**  Year Installed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Cooling (System 2)**

Type of Cooling 2 System: **None** / **Central air conditioner** / **Room air conditioner** / **Electric heat pump** / **Minisplit (ductless) heat pump** / **Ground coupled heat pump** / **Direct evaporative cooling**

**Cooling System 2 Efficiency:** Do you know the actual cooling system efficiency?: **Yes** / **No\***

**\***You can use the Assessor Calculator to determine the approximate efficiency!

Efficiency Value (SEER or EER): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **OR**  Year Installed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Duct (System 2)**

Duct Location 2 (#1): **Conditioned Space** / **Unconditioned basement** / **Vented crawlspace** / **Unvented crawlspace** / **Unconditioned attic**

Percentage of Ducts in this location: **\_\_\_\_\_\_\_\_\_\_** Are ducts sealed?: **Yes** / **No** Are ducts insulated?: **Yes** / **No**

Duct Location 2 (#2): **Conditioned Space** / **Unconditioned basement** / **Vented crawlspace** / **Unvented crawlspace** / **Unconditioned attic**

Percentage of Ducts in this location: **\_\_\_\_\_\_\_\_\_\_** Are ducts sealed?: **Yes** / **No** Are ducts insulated?: **Yes** / **No**

Duct Location 2 (#3): **Conditioned Space** / **Unconditioned basement** / **Vented crawlspace** / **Unvented crawlspace** / **Unconditioned attic**

Percentage of Ducts in this location: **\_\_\_\_\_\_\_\_\_\_** Are ducts sealed?: **Yes** / **No** Are ducts insulated?: **Yes** / **No**

**Hot Water:**

Water Heater Type: **Electric Storage** / **Natural Gas Storage** / **LPG Storage** / **Oil Storage** / **Electric Instantaneous** / **Gas Instantaneous** / **Propane Instantaneous** / **Electric Heat Pump**

**Hot Water System Efficiency:** Do you know the actual water heater energy factor?: **Yes (EF)** / **Yes (UEF)** / **No\***

**\***You can use the Assessor Calculator to determine the approximate energy factor (EF)!

Energy Factor (between 0.0 – 1.0): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **OR** Year Installed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Photovoltaic (PV) System**

Year Installed: \_\_\_\_\_\_\_\_\_\_\_ Direction Panels Face: **N** / **NE** / **E** / **SE** / **S** / **SW** / **W** / **NW**

# of Panels: \_\_\_\_\_\_\_\_\_\_\_\_ **or** DC Capacity: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Notes:

**Assessment Checklist**

General Info:

* Year
* # of bedrooms
* Blower door test?
* Professionally air sealed?
* Window specs?

Outside

* House Orientation
* # of stories
* Roof: Predominant exterior finish
	+ Color
* Walls: Same type on all sides?
	+ Construction type
	+ Exterior finish
* Windows: Same on all sides?
	+ Panes
	+ Frame
	+ Glazing

Inside

* Attic
	+ Roof Construction
	+ Insulation type & amount
	+ Air sealed?
	+ Air handler present? Type and year
	+ Ducts?: Insulated? Sealed?
* Upper Floor
	+ Square feet
	+ Ceiling Height
	+ Skylights?
	+ Windows
* Main Floor
	+ Square feet
	+ Ceiling Height
	+ Skylights?
	+ Windows
	+ Walls & insulation
* Crawlspace - insulation type & amount
	+ Ducts?: Insulated? Sealed?
* Basement – Conditioned?
	+ Square feet
	+ Ceiling Height
	+ Windows
	+ Walls & insulation
* HVAC Equipment
	+ Type?
	+ Year or SN?
* Water Heater
	+ Type?
	+ Year or SN?
* PV
	+ Age
	+ Orientation
	+ # of Panels or Capacity

Window Dimensions:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Front |  | Back |  | Right |  | Left |  |
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Layout:

*Public reporting burden for this collection of information is estimated to average one (1) hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.  Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Office of the Chief Information Officer, Records Management Division, IM-23, Paperwork Reduction Project (1910-****5184****), U.S. Department of Energy, 1000 Independence Ave SW, Washington, DC, 20585-1290; and to the Office of Management and Budget (OMB), OIRA, Paperwork Reduction Project (1910-****5184****), Washington, DC  20503.*