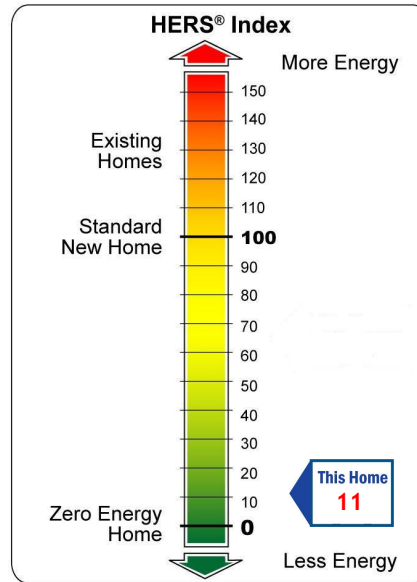
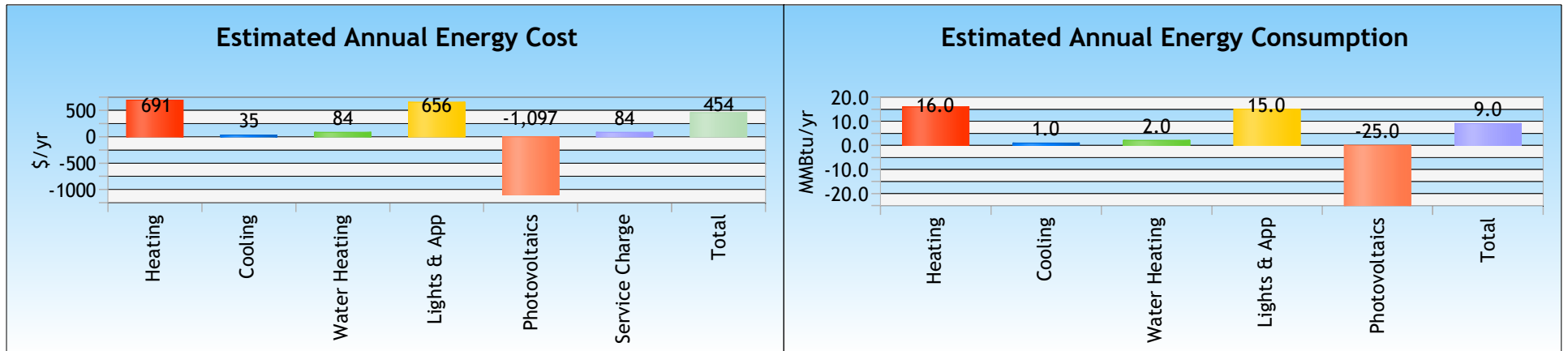


HERS PERFORMANCE



ENERGY RATING CERTIFICATE



Address Hamilton, MI 49419
Single-family detached
House Type 1648 sq. ft.
Cond. Area
Rating No. September 03, 2021
Issue Date Inspected and Tested
Certification

Annual Estimates*
Electric(kWh): 2511
CO2 emissions(Tons): 2
Annual Savings**: \$4032
* Based on standard operating conditions
** Based on a HERS 130 Index Home

John R Kuiper
The Home Energy Assessor
3015 Rosebury Ave SE
Certified Rater John R Kuiper
Rater ID 6388891
Registry ID 122267445
Rating Date 8/19/21

REM/Rate - Residential Energy Analysis and Rating Software v16.0.6

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The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

Home Energy Rating Certificate

Property
Gross
Hamilton, MI 49419

HERS
Rating Type: Confirmed
Rating Date: 8/19/21
Registry ID: 122267445

Certified Energy Rater: John R Kuiper
Rating Number:

HERS Index: 11

General Information

Conditioned Area	1648 sq. ft.	House Type	Single-family detached
Conditioned Volume	18470 cubic ft.	Foundation	Slab
Bedrooms	2		

Mechanical Systems Features

Air-source heat pump:	Electric, Htg: 10.3 HSPF. Clg: 20.0 SEER.
Heating:	Electric baseboard or radiant, Electric, 100.0 % EFF.
Water Heating:	Heat pump, Electric, 3.39 EF, 50.0 Gal.
Duct Leakage to Outside	NA
Ventilation System	Balanced: HRV, 45 cfm, 60.0 watts.
Programmable Thermostat	Heat=Yes; Cool=Yes

Building Shell Features

Ceiling Flat	NA	Slab	R-23.0 Edge, R-20.0 Under
Sealed Attic	NA	Exposed Floor	NA
Vaulted Ceiling	R-42.8	Window Type	U-Value: 0.270, SHGC: 0.190
Above Grade Walls	R-23.0	Infiltration Rate	1.25 ACH50
Foundation Walls	NA	Method	Blower door

Lights and Appliance Features

Interior Fluor Lighting (%)	0.0	Range/Oven Fuel	Electric
Interior LED Lighting (%)	100.0	Clothes Dryer Fuel	Electric
Refrigerator (kWh/yr)	562	Clothes Dryer CEF	3.94
Dishwasher (kWh/yr)	269	Ceiling Fan (cfm/Watt)	0.00

Estimated Annual Energy Cost

Use	MMBtu	Cost	Percent
Heating	16.0	\$691	152%
Cooling	0.8	\$35	8%
Hot Water	1.9	\$84	19%
Lights/Appliances	15.1	\$656	145%
Photovoltaics	-25.3	\$-1097	-241%
Service Charges		\$84	18%
Total	8.6	\$454	100%

Criteria

This home meets or exceeds the minimum criteria for the following:

Fax #

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Fuel Summary

Property

Gross
Hamilton, MI 49419

Weather: Grand Rapids, MI
Peace of Mind III

Organization

The Home Energy Assessor
616-443-6697
John R Kuiper

Builder

R Value Homes

Annual Energy Cost	\$/yr
Electric	376
Annual End-Use Cost	
\$/yr	
Heating	719
Cooling	29
Water Heating	84
Lights & Appliances	641
Photovoltaics	-1097
Service Charge	84
Total	460

Annual End-Use Consumption	
Heating (kWh)	4867
Cooling (kWh)	194
Water Heating (kWh)	569
Lights & Appliances (kWh)	4330
Photovoltaics (kWh)	-7409
Total (kWh)	2551

Annual Energy Demands	kW
Heating	5.4
Cooling	0.6
Water Heating (Winter Peak)	0.1
Water Heating (Summer Peak)	0.1
Lights & Appliances (Winter Peak)	0.4
Lights & Appliances (Summer Peak)	0.9
Total Winter Peak	5.9
Total Summer Peak	1.6

Utility Rates

Electricity Consumers Energy*0*****0*****

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