

# Energy Cost and Features

**Property**  
Michael Loosbrock  
4535 Lakeshore Place  
Arden Hills,, MN 55112

**Organization**  
Johnson Environmental  
605-940-0759  
Chris Johnson

**HERS**  
Projected Rating  
2018  
Rater ID:8875892



**Weather:**Minneapolis, MN  
Loosbrock Home  
Broadview\_Loosbrock Home.blg

**Builder**  
Broadview Builders

Annual Energy Costs	\$/yr
Heating	452
Cooling	49
Water Heating	92
Lights & Appliances	732
Photovoltaics	-0
Service Charges	204
Total	1529
Average Monthly(\$/Month)	127

## Energy Features

Ceiling w/Attic	None
Sealed Attic	None
Vaulted Ceiling	SIP R 49 U=0.019
Above Grade Wall	SIP 5-5/8" U=0.034
Foundation Walls (Cond)	ICF R20***** R=20.0
Foundation Walls (Uncond)	None
Doors	Fiberglass/Foam Fill U=0.168
Windows	Low E .28/.28 U=0.280
Floors	None
Slab Floors	R-10 P R-10 U U=0.039
Infiltration	Htg: 500 Clg: 500 CFM50
Infiltration Measure	Blower door test
Mechanical Ventilation	Balanced: ERV, 50 cfm, 40.0 watts.
Interior Mass	None
Mechanical Equipment 1	Heating: Fuel-fired hydronic distribution, 124.0 kBtuh, 95.0 AFUE.
Mechanical Equipment 2	ASHP: Htg: 54.7 kBtuh, 10.5 HSPF. Clg: 11.4 kBtuh, 27.0 SEER.
Mechanical Equipment 3	Water Heating: Integrated, Gas, 0.92 EF, R-10 wrap.
Programmable Thermostat	Heat=Yes; Cool=Yes
Ducts	NANA
Duct Leakage to Outside	NA
Total Duct Leakage	NA
Lights/Appliances	Rating Tab

Note: Where feature level varies in home, the dominate value is shown.

**REM/Rate - Residential Energy Analysis and Rating Software v15.4**

This information does not constitute any warranty of energy cost or savings.

© 1985-2017 Noresco, Boulder, Colorado.

# Energy Cost and Features

**Property**

Michael Loosbrock  
4535 Lakeshore Place  
Arden Hills,, MN 55112

**Organization**

Johnson Environmental  
605-940-0759  
Chris Johnson

**HERS**

Projected Rating  
2018  
Rater ID:8875892



Weather:Minneapolis, MN

Loosbrock Home

Broadview\_Loosbrock Home.blg

**Builder**

Broadview Builders

## Energy Features

Active Solar	None
Photovoltaics	0.00
Sunspace	No

Note: Where feature level varies in home, the dominate value is shown.

# HOME CERTIFIED TO MEET THE PROVISIONS OF THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE

This home built at  
4535 Lakeshore Place, Arden Hills,, MN  
by Broadview Builders  
exceeds the minimum requirements for the 2015 International  
Energy Conservation Code

## Building Features

Ceiling Flat	NA
Sealed Attic:	NA
Vaulted Ceiling	R-49.0
Above Grade Walls	R*-29.6(assembly)
Foundation Walls	R-20.0
Exposed Floor	NA
Slab	R-10.0 Edge, R-13.0 Under

Duct	NA
Duct Leakage to Outside:	NA
Total Duct Leakage:	NA
Infiltration:	Htg: 500 Clg: 500 CFM50
Window	U-Value: 0.280, SHGC: 0.280
Heating	Fuel-fired hydronic distribution, Natural gas, 95.0 AFUE.
Air-Source HP	Electric, Htg: 10.5 HSPF. Clg: 27.0 SEER.
Water Heating	Integrated, Natural gas, 0.92 EF, 40.0 Gal, R-10 wrap.

The organization below certifies that the proposed building design described herein is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2015 IECC requirements in compliance with Chapter 4 based on Climate Zone 6A and with all mandatory requirements.

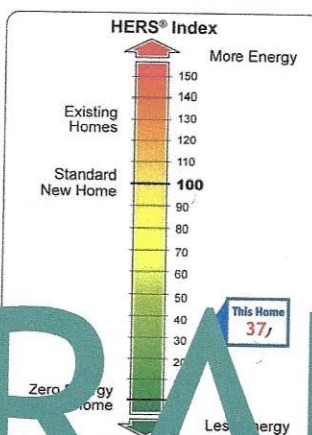
Name | Chris Johnson  
Organization | Johnson Environmental

Signature |  
Date | 25 April 2018

The 2015 International Energy Conservation Code is a registered trademark of the International Code Council, Inc. ( "ICC").  
No version of this software has been reviewed or approved by ICC or its affiliates.  
REM/Rate - Residential Energy Analysis and Rating Software v15.4



# HERS PERFORMANCE



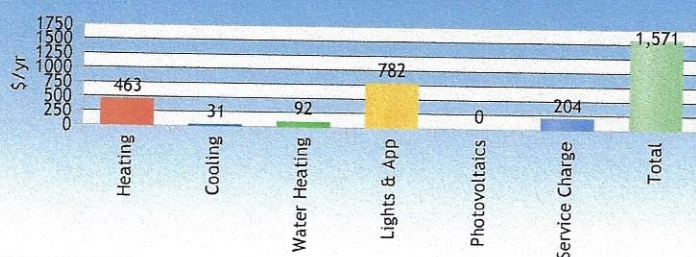
# ENERGY RATING CERTIFICATE



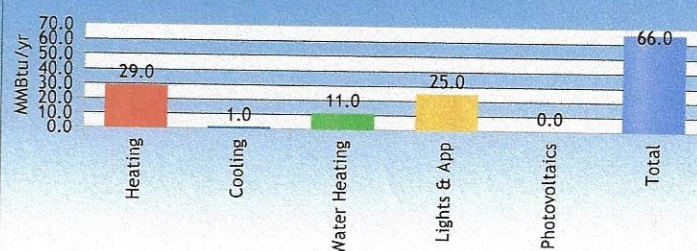
Projected Rating: Based on Plans - Field Confirmation Required.

DRAFT

Estimated Annual Energy Cost



Estimated Annual Energy Consumption



Address 4535 Lakeshore Place  
Arden Hills,, MN 55112  
House Type Single-family detached  
Cond. Area 3201 sq. ft.  
Rating No.  
Issue Date April 25, 2018  
Certification Inspected and Tested

Annual Estimates\*  
Electric(kWh): 10585  
Natural gas(Therms): 296  
CO2 emissions(Tons): 9  
Annual Savings\*\*: \$2868  
\* Based on standard operating conditions  
\*\* Based on a HERS 130 Index Home

Accurate Rater Network  
11601 Orchard Rd  
Certified Rater Chris Johnson  
Rater ID 8875892  
Registry ID  
Rating Date 2018

REM/Rate - Residential Energy Analysis and Rating Software v15.4

This information does not constitute any warranty of energy cost or savings. © 1985-2017 Noresco, Boulder, Colorado.  
The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

# RESNET Home Energy Rating Standard Disclosure



For home located at: 4535 Lakeshore Place

City: Arden Hills,

State: MN

1. ☐ The Rater or Rater's employer is receiving a fee for providing the rating on this home.
2. ☒ In addition to the rating, the Rater or Rater's employer has also provided the following consulting services for this home.

- ☒ A. Mechanical system design
- ☒ B. Moisture control or indoor air quality consulting
- ☒ C. Performance testing and/or commissioning other than required for the rating itself
- ☒ D. Training for sales or construction personnel
- ☐ E. Other (specify below)

3. ☐ The Rater or Rater's employer is:

- ☐ A. The seller of this home or their agent
- ☐ B. The mortgagor for some portion of the financial payments on this home
- ☐ C. An employee, contractor or consultant of the electric and/or natural gas utility serving this home

4. ☐ The Rater or Rater's employer is a supplier or installer of products, which may include:

HVAC Systems

Thermal Insulation Systems

Air sealing of envelope or duct systems

Windows or window shading systems

Energy efficient appliances

Construction (builder, developer, construction contractor, etc.)

Other (specify below):

Installed in this home by: OR is in the business of:

<input type="checkbox"/> Rater	<input type="checkbox"/> Employer	<input type="checkbox"/> Rater	<input type="checkbox"/> Employer
<input type="checkbox"/> Rater	<input type="checkbox"/> Employer	<input type="checkbox"/> Rater	<input type="checkbox"/> Employer
<input type="checkbox"/> Rater	<input type="checkbox"/> Employer	<input type="checkbox"/> Rater	<input type="checkbox"/> Employer
<input type="checkbox"/> Rater	<input type="checkbox"/> Employer	<input type="checkbox"/> Rater	<input type="checkbox"/> Employer
<input type="checkbox"/> Rater	<input type="checkbox"/> Employer	<input type="checkbox"/> Rater	<input type="checkbox"/> Employer
<input type="checkbox"/> Rater	<input type="checkbox"/> Employer	<input type="checkbox"/> Rater	<input type="checkbox"/> Employer
<input type="checkbox"/> Rater	<input type="checkbox"/> Employer	<input type="checkbox"/> Rater	<input type="checkbox"/> Employer
<input type="checkbox"/> Rater	<input type="checkbox"/> Employer	<input type="checkbox"/> Rater	<input type="checkbox"/> Employer

I attest that the above information is true and correct to the best of my knowledge. As a Rater or Rating Provider I abide by the rating quality control provisions of the Mortgage Industry National Home Energy Rating Standard as set forth by the Residential Energy Services Network (RESNET). The national rating quality control provisions of the rating standard are contained in Chapter One 4.C.8. of the standard and are posted at [http://resnet.us/standards/RESNET\\_Mortgage\\_Industry\\_National\\_HERS\\_Standards.pdf](http://resnet.us/standards/RESNET_Mortgage_Industry_National_HERS_Standards.pdf). The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

Chris Johnson

Rater's Printed Name

8875892

Certification #

Rater's Signature

April 25, 2018

Date

RESNET Form 0300-2