

# LEED for Homes Project Snapshot

**Live Green Live Smart  
Sustainable House  
Minnetonka Minnesota  
LEED PLATINUM**

**69%** Expected Energy Savings  
Based on HERS Score

**90%** Construction Waste  
Diverted from Landfill



Photo Courtesy of: Live Green Live Smart

## STRATEGIES AND RESULTS

\* Solar panels provide both electricity for the home and energy to heat water.

\* The Honda/Climate Energy Freewatt™ “combined heat and power” (CHP) system provides, via a generator and furnace run on natural gas, co-generating electricity and forced-air heat.

\* Underneath the House’s front walkway are four 135-foot-deep geothermal wells, which circulate a non-toxic solution through pipes to capture the stable temperatures beneath the surface. The energy of the Earth’s heat is transferred to a WaterFurnace™, which can heat the home in the winter and provide air conditioning in the summer.

## EXEMPLARY PERFORMANCE

# Efficient insulation and an air transfer system ensure that none of the heat or cold generated goes to waste, and that the air inside the home stays clean and breathable.

# Solatubes provide natural sunlight all day long, even in the basement, reducing electricity needs.

# Every lightbulb in the house is an energy-efficient compact fluorescent or LED.

# Low-voltage radiant in-floor heating is an efficient way to reduce furnace needs.

# Greywater is collected from the showers for reuse in the double-flush toilets.

## LEED™ Facts Sustainable House



LEED for Homes  
Certification Awarded 2008

**Platinum 126\***

Innovation in Design 9/11

Location & Linkages 8/10

Sustainable Sites 19/22

Water Efficiency 15/15

Energy & Atmosphere 37/38

Materials & Resources 14/16

Indoor Environmental Quality 21/21

Awareness & Education 3/3

\*Out of 136 possible points

## PROJECT BASICS

Project Type	Single Family
Conditioned Space	2400 sq ft
Bedrooms	4
Bathrooms	2
Lot Type	Previously Developed
Construction Type	Gut Rehab

## KEYS TO SUCCESS

Insulation	HERS score of 31!
On Site Renewables	Geothermal/Solar
Lighting	LED's
HVAC Efficiency	ClimateEnergy/Honda
Passive Solar	
Grey Water	

## THE LEED FOR HOMES DIFFERENCE

Construction Waste Management Plan	<input checked="" type="checkbox"/> YES!
On-Site Performance Tests	<input checked="" type="checkbox"/> YES!
Custom Durability Planning Checklist	<input checked="" type="checkbox"/> YES!
Third-Party Verified Documentation	<input checked="" type="checkbox"/> YES!

## About the Project Team

We have transformed an ordinary post-War rambler in a suburban neighborhood into a Century House that will be energy efficient, environmentally healthy, respectful of the natural environment, and comfortable for family life as climate and energy resources alter in the coming decades. Live Green, Live Smart's. One of the nation's first home remodel to achieve LEED Platinum certification - the highest level of efficient design.

## LEED for Homes Provider

AES

## About LEED for Homes

LEED for Homes is a voluntary, third-party certification program developed by residential experts and experienced builders. LEED promotes the design and construction of high-performance green homes, and encourages the adoption of sustainable practices throughout the building industry.



[www.usgbc.org/homes](http://www.usgbc.org/homes)

The information provided is based on that stated in the LEED® project certification submittals. USGBC does not warrant or represent the accuracy of this information. Each building's actual performance is based on its unique design, construction, operation, and maintenance. Energy efficiency and sustainable results will vary.