

LEED for Homes Project Snapshot

**JOHNSEN SCHMALING ARCH.
SCEKIC-OSBORNE RESIDENCE
RACINE, WI
LEED PLATINUM**

67% Expected Energy Savings
Based on HERS Score

99% Construction Waste
Diverted from Landfill



Photo Courtesy of: Johnsen Schmalig Architects

STRATEGIES AND RESULTS

The Scekic-Osborne Residence is an example of "micro-architecture" designed with a small footprint to optimize space for the family of four, and is located overlooking Lake Michigan.

The home's modern exterior features exposed steel beams and concrete walls, with expanses of glass offering views through the home to Lake Michigan. Large glazing areas necessitate efficient windows as a critical component to the home's energy performance. Additionally, thick walls with spray foam insulation achieved R34 walls and R53 roofs. Combined with other energy systems, this home achieved a HERS score of 33.

EXEMPLARY PERFORMANCE

The project achieved near zero-waste by reducing materials and using clean wood recycling and a diversion-focused waste hauler.

The house uses many renewable energy sources including a geothermal, ground-source heat pump for heating and cooling, solar thermal hot water panels with a tankless backup water heater, and 4.2kw of solar photovoltaics that generate electricity.

The home blends into the natural Lake Michigan shoreline with 100% native landscaping including drought-tolerant turf grass, and all hardscaping is permeable to allow rain infiltration.

LEED™ Facts Racine, WI Residence



LEED for Homes
Certification Awarded March 2010

Platinum 97.5*

Innovation in Design 5/11

Location & Linkages 8/10

Sustainable Sites 17/22

Water Efficiency 8/15

Energy & Atmosphere 30/38

Materials & Resources 11.5/16

Indoor Environmental Quality 18/21

Awareness & Education 0/3

*Out of 136 possible points

PROJECT BASICS

Project Type	Single Family
Conditioned Space	1,900 sq ft
Bedrooms	3
Bathrooms	1+1/2
Lot Type	Previously Developed
Construction Type	New Construction

KEYS TO SUCCESS

HVAC Type	Geothermal GSHP
On Site Renewables	SolarThermal and PV
Insulation	R34 wall, R53 roof
Plumbing fixtures	Low-flow fixtures
Minimize the floor plan / building square footage.	
Native landscaping requiring no irrigation.	
Energy Star appliances and lighting throughout.	

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

Arch: Johnsen Schmalig Architects
Builder: John Beggi
Green Rater: North Star Energy Consulting

LEED for Homes Provider:
Alliance for Environmental Sustainability (AES)
www.AllianceES.org

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

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