## **LEED for Homes Project Snapshot**

**Herzog Homes Metro Detroit Home** Ferndale, Michigan LEED PLATINUM

> **Expected Energy Savings Based on HERS Score**

**Construction Waste Diverted from Landfill** 



Photo Courtesy of: Home Owner

## **STRATEGIES AND RESULTS**

34%

63%

The purpose of this project was to revitalize an abandoned home in disrepair, and through environmentally-friendly construction practices, to transform it into an energy-efficient home. The design team followed LEED protocol for local labor and materials, using renewable or sustainable products in aiming for Gold LEED certification.

The result is a an efficient, practical, and affordable home that is no longer an eyesore in an established neighborhood. This home is the first of its kind in metro Detroit, setting an example for others to invest in Green Homes and to restore existing homes rather than build new.

# **LEED<sup>™</sup> Facts**

## **Metro Detroit Home**

**LEED for Homes** Certification Awarded 4/24/2013

Platinum	<b>93</b> <sup>*</sup>
Innovation in Design	9/11
Location & Linkages	10/10
Sustainable Sites	10.5/22
Water Efficiency	10/15
Energy & Atmosphere	19.5/38
Materials & Resources	16/16
Indoor Environmental Quality	17/21
Awareness & Education	1 /3
*Out of136 possible points	

## **PROJECT BAS**

Project Type	Single Fam
Conditioned Space	2,027 so
Bedrooms	
Bathrooms	
Lot Type	Ir
Construction Type	Gut Reh
KEYS TO SUCCESS	

Air Filtration	MERV
Insulation	R
Window U Value	
HVAC Efficiency	97
3.5 Air Leakage Rate in ACH50	
Backyard Vegetable Garden	

## THE LEED FO

#### **EXEMPLARY PERFORMANCE**

The house also has its own high-efficiency controlled irrigation system that evenly distributes water in the front and back yards. The backyard contains a 200 square foot vegetable garden, which includes fruit trees. The garden benefits from the irrigation system and passive water collection to yield produce four to six months out of the year. The indoor air quality is 10 times better than the average home due to the ERV and high efficiency furnace. The house is fully enclosed with open cell spray icynene insulation, allowing better insulation and lower air leakage. The interior contains almost no VOCs other than low-VOC drywall glue and paint.

SICS		About the Project Team Kris Herzog
	Single Family	-Herzog Homes (Developer)
Space	2,027 sq ft	
	3	IDC Mechanical
	2	- HVAC Installer
	Infill	Lee Purches- Green Rater (provided
туре	Gut Rehab	assistance in bringing the project together)
CESS		
	MERV 13	
	R20	LEED for Homes Provider
alue	31	AES
ncy	97%	
ige Rate in ACH50		About LEED for Homes LEED for Homes is a voluntary, third-party
getable Garden		certification program developed by resider
5		experts and experienced builders. LEED promotes the design and
		construction of high- performance green homes,
OR HOMES DIFFERENCE		and encourages the
waste Management Plar	n 🖌 YES!	adoption of sustainable practices throughout the
ormance Tests	<b>√</b> YES!	building industry.
ability Planning Checklist	VES!	www.usgbc.org/homes FOR HOM

**VES!** 

