

## Mark's Net Zero Dream House

Milford, Michigan



Through his work at The Green Panel out of Brighton, MI, Mark knew a lot about the benefits of going green. When it came time to build a home for him and his family, Mark decided to “practice what he preaches” and build a Net Zero Home. With careful consideration, Mark selected the

best products from insulation to lighting, controls, and mechanicals to make his dream house a reality. The home is a ranch-style house with a full walkout basement complete with a bar, a porch with a beautiful outdoor fireplace, and lots of personal touches.

### Project Details

<b>Building Size:</b>	2,800 sq. ft.
<b>Loop Type:</b>	Vertical closed loop - 4 bores @ 150' each
<b>Geothermal Equipment:</b>	4-ton Revolution Series Multi-Position Vertical Packaged system
<b>Installation Date:</b>	September 2013
<b>Installation Details:</b>	Two-zone forced air system using Honeywell controls, GeoSpring heat pump water heater, steam humidifier, General Air HEPA filtration and HRV system.
<b>Other Features:</b>	A 14 kW solar array will provide enough power for all of the home's yearly needs. The home also incorporates solar inverters by SolarEdge. To achieve Net Zero status, the home also includes LED lighting throughout, extensive use of dimmers and vacancy light switches, a rain runoff collection system with a 4,000 gallon underground tank, Superior walls in the basement, closed cell foam insulation, and Zip panels.
<b>Geothermal Contractor:</b>	<b>Michigan Energy Services</b> Whitmore Lake, MI • (888) 339-7700 • <a href="http://www.energypath.com">www.energypath.com</a>



CONSTRUCTION TYPE  
**New Construction**



SYSTEM TYPE  
**Forced Air System**



LOOP TYPE  
**Vertical Loop**

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Front of home during construction



Left: Hydron geothermal installation with water heater and accessories

Right: Solar array