



Name: Cutler 2
Location: Bath, MI
Install Completion: June 2014
Project Size: 8kW
Panel Type: 60 Cell - 250W
Racking Type: Fixed Tilt - Ballasted Ground Mount
Terrain: Underground House
Installation Services: N/A
General Contractor: Peninsula Solar

Project Overview

Patriot worked with Peninsula Solar to design a racking system that would work with limited space and not penetrate the ground surface.

The ground mount array utilized a non-penetrating ballasted design to work with the existing terrain on top of an underground house. To save space in the yard, the North row utilized a longer post to allow closer inner-row spacing.

32 solar panels will offset approximately 9,800kWh of electricity annually. The residential homeowner entered into a 15 year power purchase agreement (PPA) as part of Consumers Energy Experimental Advanced Renewable Program (EARP).

Why Patriot Solar Group?

- Over 20 years of manufacturing and design expertise.
- Vast amounts of inventory ready to ship. High capacity/ high production manufacturing.
- Custom Engineering to meet any design criteria.
- Wet stamp drawings provided at no cost for project sizes 500kW and above.
- Patriot offers site prep and installation services for any size project.
- Renowned customer service and in-field technical support.
- Made in USA – BAA & ARRA Compliant. 10 year structural warranty.

Project Objectives

- Design racking system in compliance with all local building codes.
- Engineer post design to work with site soil conditions and achieve desired height clearance of 24 inches above grade at a 30 degree panel tilt.
- Deliver racking material within 4 week lead time to ensure no project delays.
- Install racking system quickly to maintain project schedule.

Project Results

- Racking design met the desired height clearance in accordance with 90MPH wind load and 35PSF snow load.
- Ballasted foundation design worked well with the site conditions with no required penetrations.
- All racking material was delivered on time.
- Entire racking assembly was completed in one day with a 2-man crew.

All aspects of working with Patriot Solar are made extremely efficient. The products are well thought out, easy to assemble and perfect for their specific applications.

- Ian Olmstead
Operator, Peninsula Solar
www.peninsula-solar.com