

Michigan Energy Report ©

CBS SOLAR

SUMMER 2017

Happy Summer!



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*Soul Springs Permaculture
Solar Project*



*Sleeping Bear Dunes National Lake Shore
(Photo by Vicki Olsen)*

CBS SOLAR – MADE IN MICHIGAN

One unique aspect of CBS Solar is the manufacturing of solar panels in Michigan. This week, our production team has been working on assembly and testing of our 300 Watt 72 cell modules. During the manufacturing process, every panel is tested 100% by Electroluminescence and is verified to be highly efficient, reliable, and provides optimal output. CBS solar has many panel options available to meet the needs of each solar project and we are looking into larger panel sizes for future production. Also, we are researching new solar tracking equipment and battery storage innovations. With our growing dealer network, CBS Solar is able to provide a variety of racking, panels, batteries, inverters, and balance of system components for complete installations or DIY projects. Please stop by our Copemish facility for a visit and let us know how we may assist you with your solar energy goals.

HABITAT FOR HUMANITY NET ZERO SOLAR PROJECT



Habitat for Humanity, Grand Traverse Region started work on the Depot Neighborhood in May of 2014. The goal of the project has been to build 10 net-zero affordable homes within the community. A net-zero home is designed to produce as much energy as it used over the course of the year. Because of the roof top solar array on each house, the home owners in the Depot neighborhood often have negative electric bills during the summer months. CBS Solar has been please to be involved in the Solar Installation portion of the project since 2015. We have just finished the roof top solar installation on house number 9 and look forward to completing the solar on house number 10 this fall.

www.habitatgr.org/

www.endurahomes.com



ACCORDING TO THE 2016 NATIONAL SOLAR JOBS CENSUS REPORT, ONE OUT OF EVERY 50 NEW U.S. JOBS WAS IN SOLAR!

The solar workforce grew by over 51,000 jobs in 2016, for a total of 260,077 U.S. Solar Workers.

GO SOLAR!

<https://energy.gov/eere/sunshot/downloads/2016-national-solar-jobs-census>



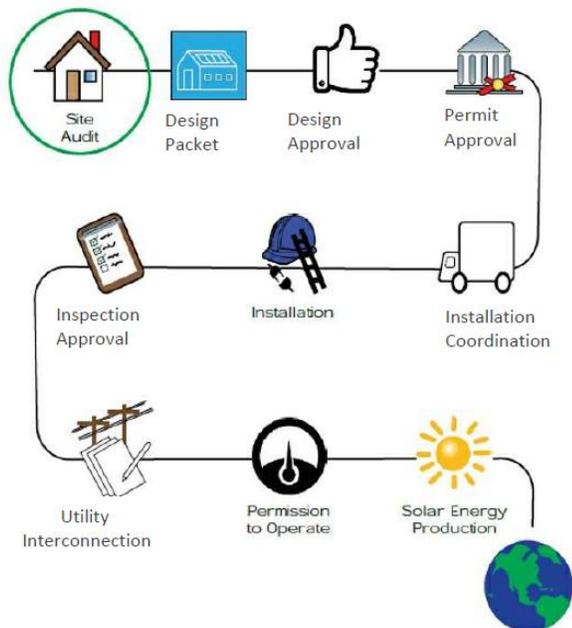
www.cbssolar.com

<https://www.facebook.com/CBSSolar/>

Have a Sunny Day



SOLAR INSTALLATION AND PERMIT PROCESS



The solar installation process starts with gathering the needed information to complete the design, interconnection application, and the necessary permits.

Here is a list of some of the items we will need:

1. Copy of current electric bill
2. Complete contact information
3. County and Township Information

4. Sketch or image of site showing placement and layout of solar array and distance to electric panel.
5. Property Tax ID#, description and property line dimensions
6. Other information as required by township, County, State or Utility Co. Ex. Truss drawings
7. Owners signature may be required on some forms

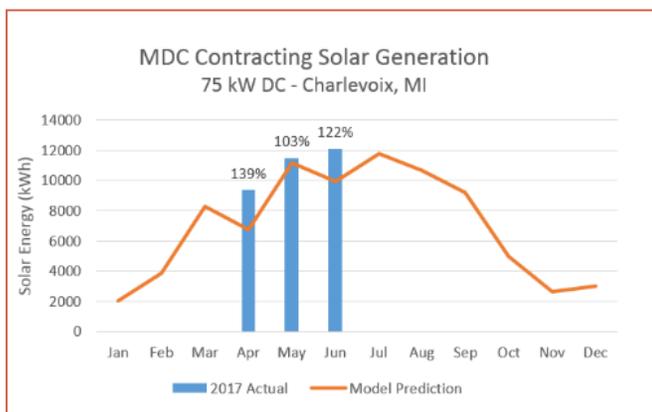
The permit process may take 6 weeks or more to complete depending on the circumstances.

From the Desk of the President

The International Trade Commission is hearing a petition by a Bankrupt Michigan Company, Suniva Solar out of Saginaw. They are insisting that US Companies need tariffs on imported photovoltaic panels. Their complaint is unfounded and should be rejected because it will damage the solar industry and raise prices for years to come. Many US Manufacturing companies, including CBS Solar, work with overseas partners to manufacture their products in the USA. Also, a number of overseas companies are now building production facilities in the U.S. I just came back from Sacramento CA, where a Chinese Company called C-Sun is now building a 400 MW production facility. They will employ over 180 local residents and sell product throughout the US. We need to provide positive incentives to partnerships and relocations to the U.S. The 201 Petition is misguided and will negatively affect the job creation and partnerships that have been bringing down the cost of installing solar in Michigan and across the USA.

Allan O'Shea
President

75 KW SOLAR PROJECT AT MDC IN CHARLEVOIX



CBS Solar completed installation of this Industrial Solar Array in early spring. The energy production exceeded predictions. This was project was in partnership with our Renovo Energy Team.



WINDOW NEWS



Whitney working with our window installer Rick Damore (Lost Lake Improvement, Interlochen, MI.)

Whitney Hierholzer joined our CBS Solar team in May as our Office and Window Coordinator. She is a great asset in the office and will quickly assist you with window quotes, sales, and information. If you are looking for energy efficient windows for your home or business, give us a call at 231-378-2936. Ask for Whitney or Tyson.

Orphan Window Inventory

\$75 - 150.00

Double Hung and Sliders in white or Oak Laminate. Stop by the office for a look.



To join, contact John Sarver at johnsaver3@gmail.com "Like" MiSUN on face book: <http://www.facebook.com/groups/MiSolarUsers/>



CBS Solar is a proud member of the GLREA. www.glrea.org



McDonough Market Solar Project Complete



On Beaver Island

CBS has been serving the solar industry since 1995!

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2015 MICHIGAN RESIDENTIAL BUILDING CODE IN EFFECT

New Building Codes applying to Solar Energy Systems went into effect in April of 2017. Access and pathway requirements are included in these new regulations. Code R324.7.2.3 states that "Panels and modules installed on *dwellings* with a single ridge shall be located in a manner that provides two, 3-foot-wide access pathways from the eave to the ridge on each roof slope where panels or modules are located." R324.2.5 states that panels and modules must also be 3 feet from the ridge "to allow for fire department smoke ventilation operations". If you are considering a roof top installation, please keep in mind that the space available for your solar array will be limited by these setbacks.

*Some variations and exceptions apply.

FEATURED PRODUCT: Solar RAQ



The Solar Raq is a solar panel mounting system designed for shingled roofs and comes with all the attachment hardware. The RAQ comes in single panel or 3 panel sizes and is made in Pontiac, MI.

Above center, is a picture of Bob Matigian's installation team working with the RAQ system in the Dearborn area.

This is one of the many solar racking options distributed by CBS Solar. Call 231-378-2936 for pricing and details.



<http://www.solarraq.com/>

INFORMATION AND RESOURCE LINKS

<http://pwatts.nrel.gov/pwatts.php>

<http://michigansaves.org/home-energy-loan-program/>

<http://www.solarpaneltilt.com/>

<https://energy.gov/savings/residential-renewable-energy-tax-credit>

<http://www.pbs.org/wgbh/nova/tech/super-battery.html>

<https://energy.gov/energysaver/small-solar-electric-systems>

<https://www.rd.usda.gov/programs-services/rural-energy-america-program-energy-audit-renewable-energy-development-assistance>