

Powering Michigan Agriculture with Renewable Energy



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- Territory Sales Manager – Michigan, Indiana, Ohio
- NABCEP Certified – PV Technical Sales
- Education in Mathematics, Physics, and Business
- Residential Solar Owner

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Why Renewable Energy?

- What are your motivating factors?
 - Financial Incentives
 - Control Operating Costs
 - Passing Farm/Business Down
 - Green Image
 - Marketing Leverage
 - Increase Property Value

Why solar energy?

- Advances in Solar Technology
- Reduced Costs
- Federal Government Support
- Utility Support (net-metering, rebates, feed-in-tariffs)
- Long Life Cycle and Warranties
- No Moving Parts, Minimal Maintenance
- Flexibility in Physical Structure
- Scalable



Financial Incentives

- Federal Investment Tax Credit (ITC) – 30%
 - Carry forward 20 years or **back** one year
- Depreciation
 - Section 179 or 5-year
- USDA REAP grant of 25% and guaranteed loan programs
- Utility Incentives

Payback and Return

- Factors to Consider
 - Your Tax Situation
 - Your Cost of Electricity
 - Your Farm/Business's Future
- Typical Payback Period in Michigan
 - Conservative and Realistic – 4 to 8 years

The Process

- Electric Bill Analysis
- Preliminary Details and Financial Analysis
- Full Design and Proposal
- Grant Writing and Procurement
- Installation
- Interconnection

Harvest Energy Solutions

- We specialize in the Ag industry
- Extensive experience
- In-house Engineering, Manufacturing, and Construction
- NABCEP Certifications
- Our relationships – Grant Writers, USDA, Financing, Funding
- Family Owned and Operated, in our 10th year





148.5 kW – Traverse City, MI – Chateau Chantal Winery



20 kW – Owosso, MI



21 kW – Coopersville, MI – Hops Farm



75 kW – Reading, MI

10 kW – Grass Lake, MI





20 kW – Fremont, MI



16.5 kW – Newaygo, MI



16 kW – St Johns, MI



6 kW – Llama Shelter – Grass Lake, MI



20 kW – St. Louis, MI

Questions?

Please feel free to contact me any time!

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