Powering Michigan Agriculture with Renewable Energy
Ken Zebarah Jr.

- 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
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
Questions?

Please feel free to contact me any time!

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