



CASE STUDY: Nourish Farms "Kitchen Capital Campaign"

PROJECT HIGHLIGHTS:

Cost savings over 30-year life of system: \$54,079

Location:
Sheboygan Falls, WI

Commissioned:
April 2020

DC Capacity:
13.7 kW

AC Nameplate:
11.4 kW

Annual Production:
17.75 MWh

Array Tilt and Azimuth:
Flush mounted on roof and 180 degrees

Modules:
37 Philadelphia Solar PV Modules (370W) (Solar for Good donation)

Inverter:
1 SolarEdge SE11400H-US

Solar Installer:
Arch Electric

[Nourishfarms.org/donate](https://nourishfarms.org/donate)

PROJECT SUMMARY:

Nourish recently moved into our new home at the historic and restored Miley Farmstead in Sheboygan Falls. Our "Good Food Education Center" has a new, 3,400 sq. ft. commercial and public demonstration kitchen for the preparation of food and delivery of hands-on cooking classes and workshops. The kitchen incorporates a 13.7 kW rooftop array of solar panels, spec'd and installed by Arch Electric in Plymouth, WI. We anticipate that the system will cover at least 30% of the kitchen's power needs.

Since its inception in 2009, Nourish has empowered people to make healthier food choices while supporting and promoting local farmers. We connect kids and families in-need to the local food these farmers produce. In addition to better nutrition, supporting local farmers also supports the local economy. Food less traveled reduces our reliance on fossil fuels and emissions while allowing the produce to be picked closer to ripeness. Produce harvested near ripeness also has higher nutrient content. Nourish partners with farms that encourage sustainable farming practices.

The prevalence of diet related health disorders is on the rise. Two-thirds of adults in Sheboygan County (our primary service area) are overweight or obese. Diagnosed diabetes had increased in the County from 5% in 2003 to 12% in 2014. Despite disorders arising from poor diet and excess food consumption, low-income families in Sheboygan may struggle to put food on the table. A family's food budget typically comes from what is left after paying for rent or mortgage, car payment, fuel, insurances, utilities, etc.

Nourish offers proactive, hands-on and experiential learning activities and programs designed to encourage individuals in our community to make wholesome food choices by growing, cooking, and supporting our local food system. Together we can educate and empower people and create a healthy community and a healthy planet.



ABOUT NOURISH FARMS:

Mission Statement:

Nourish is a good food education organization partnering with regional schools, youth-serving organizations, local farm producers and other organizations and food-based businesses to improve the health of the communities we serve by empowering people to make wholesome food choices.

Vision Statement:

To help create a healthy community through food security.

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“ At Nourish, we harvest the sun. Not just for the many crops we raise at our Good Food Education Center but also for generating the electricity we need to keep our educational programming going. Sustainability underpins all of our work and your donation will help link sustainable agriculture to renewable energy, as can now be demonstrated with Nourish’s new solar panel array. ”

-Rolf Johnson
Executive Director, Nourish Farm



ENVIRONMENTAL BENEFITS:

In the first year the 13.7 kW DC system will offset CO2 emissions equivalent to:



Electrical Usage of 1.4 homes



31,141 Miles Driven by an Average Passenger Vehicle



13,828 Pounds of Coal Burned

KEY PROJECT FUNDERS:

- FK Bemis Family Foundation
- Frank G. and Frieda K. Brotz Family Foundation
- Vollrath Company
- Sargento Foods
- High Wind Foundation

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MidwestRenew.org/solar-grant

PROJECT PARTNERS:

