



Ypsilanti Food Cooperative Bakery
312 N. River Street
Ypsilanti, Michigan 48198
734-483-1354
Grant PSC-09-27

February 1, 2009 through March 31, 2009

Complete Task

15%	Installation of Solar panels at Bakery
15%	Utility meter reading program
5%	Building of solar.ypsi.com website
20%	Solar educational outreach

Progress over the past two months

Progress on the rack for the solar panels has slowed due to design work needed to understand how to best attach the panels to the roof. We have also discovered that the manufacturer of the Sanyo solar panels has changed their design, forcing us to modify how we attach them to the rack.

We have spent some time exploring the best possible location for the inverter in the Bakery. The Bakery is short on space, especially wall space with lots of refrigerators and shelving. We are currently considering a location just outside the bakery on a hallway wall.

Progress on this project was made on the schematic for the system. We are working with the solar contractor to finalize the schematic so we can formulate an RFP to get quotes for the wiring from local electricians. The current schematic can be seen at (solar.ypsi.com/YpsiFoodCoop_bakery/Bakery_schematic.pdf) and also in the figure below.

Progress has also been made in the utility meter-monitoring program. We have two new volunteers working on the project; Professor William Sverdlik and his student Nik Estep both from Eastern Michigan University. We have created a test website (<http://treads.emich.edu/solar>) that can plot data that has been pushed to it from a remote location. Nik has also updated the laptop program that pushes the data. We are experimenting on the currently installed solar PV system at the Cooperative and once fully functional, it will be cloned for the bakery.

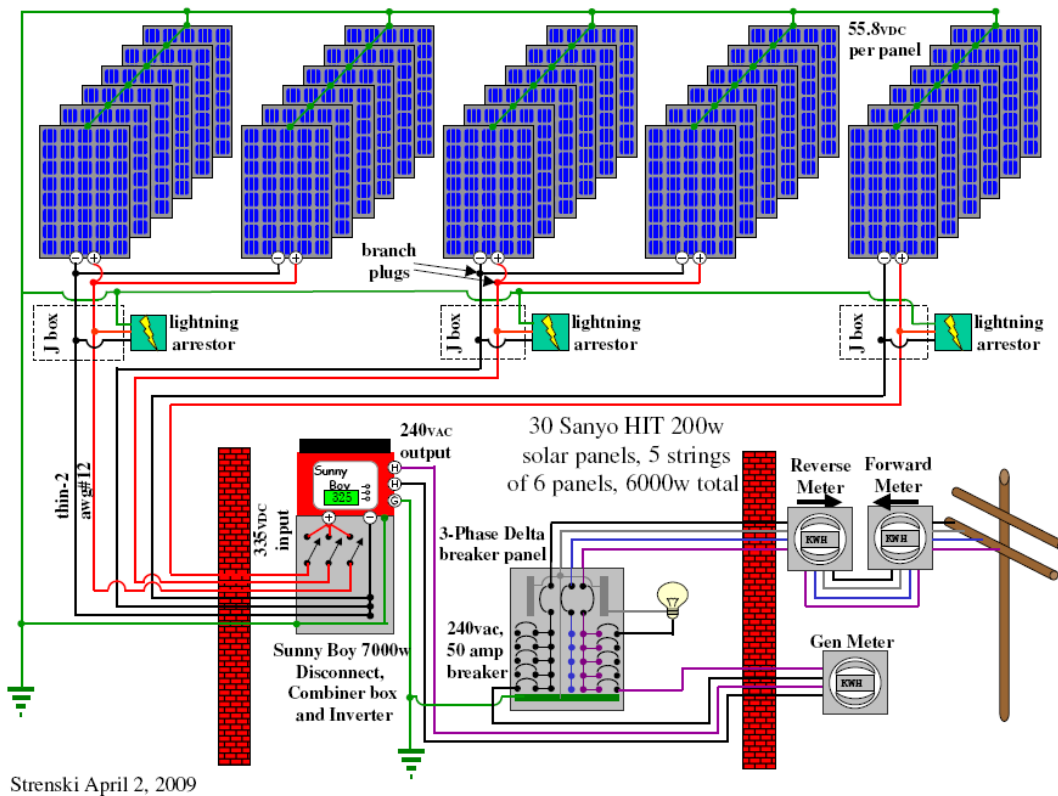


Figure 1: Bakery Schematic

We continue to give solar presentations. On January 30 we gave a presentation at the Crazy Wisdom Book Store, on March 9th, a presentation to the Transition Michigan group at the Recycle Ann Arbor EnHouse, and on March 24 we gave a presentation to the Ypsilanti Public School District Assistant Superintendent and some of his staff. We have their approval and support to write a proposal to hang solar panels on Adam's Elementary School.

Anticipated energy saving

The Cooperative's Bakery will not see any energy savings until the solar panels are online. Once the utility meter-reading program is working, we'll be able to see the energy delivery to the buildings and any energy conservation.

Expenditures compared to budget

None.

Noteworthy Accomplishments

We made progress on the utility meter reading program.

Risk to the project

The first design and quote for the rack for the roof is more expensive than estimated. We continue to look at alternative designs.

Deviations from the Statement of Work

None.

Money Spent in the Past Two Months

None.

Submitted by Dave Strenski and Corinne Sikorski