



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

December 1, 2008 through January 31, 2009

**Complete Task**

- |     |  |
|-----|--|
| 10% | Installation of Solar panels at Bakery |
| 5%  | Utility meter reading program          |
| 5%  | Building of solar.ypsi.com website     |
| 15% | Solar educational outreach             |

**Progress over the past two months**

With the Ypsilanti Historic District Commission (HDC) approvals in place, we went forward with purchasing the solar panels and inverters. We wrote a letter requesting a quote for a total of 49 panels, 3 inverters, 3 combination/switch boxes, 3 lighting arrestors, wire, and installation instructions. We are working with two grants from the Michigan Department of Labor and Economic Growth, so we combined the material needed for both solar projects into one request for quotes.

The letter was sent to 5 local renewable energy companies. Four of these companies contacted us by phone and/or email saying that they would respond and send us a quote. However, we only received 2 quotes in the mail. Both quotes were very similar, and we choose the quote from S.U.R. Energy because it was slightly cheaper and offered a bit larger wattage panel. We contacted S.U.R. Energy to let them know we would be purchasing the material from them and placed the order in January. We have already received the SMA Sunny Boy inverter, combination/switch box, and lighting arrestor. The panels will be delivered later. The supplier is currently working on the schematic for the system

We have measured the voltages into the breaker panel and discovered that we have 240v 3-phase Delta power. We have passed this information along to the supply as input to the schematic.

We have contacted UniRac and asked them to design a rack system for our installation along with a quote for the parts. We have received this design and quote and refining the design to understand how we'll attach it to the roof.

Slow progress continues on the website (solar.ypsi.com) and on finishing the meter reading program.

We continue to promote the project and educate the community about energy and solar power. We were interviewed for an article in the Crazy Wisdom Community Journal and are in the current issue. ([www.crazywisdom.net/interviewpdf/greenliving0109.pdf](http://www.crazywisdom.net/interviewpdf/greenliving0109.pdf))  
We have made arrangements to give a solar presentation at the Crazy Wisdom Bookstore on January 30, 2009.

We were updating our solar presentation and requested an updated version of the “US Energy Flow” graph from Lawrence Livermore National Labs. They sent us the graph for 2006 and we were able to get it posted to a local blog and added into our presentation. You can find the graph here (<http://markmaynard.com/index.php?s=energy+use+united+states&sentence=AND&submit=Search>)

### **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**

We spent \$13,000.00 this period as a down payment for the solar panels, inverter, and Combi-Switch. We have budgeted \$37,900 for these components.

### **Noteworthy Accomplishments**

Ordering the materials for the project.

### **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**

\$13,000.00 for down payment on solar material.

Submitted by Dave Strenski and Corinne Sikorski