The Surplus Exchange – Solar
Kansas City, MO

About the Client

The Surplus Exchange is a nonprofit organization that diverts consumer electronics from the waste stream, ensuring that the material is properly recycled in accordance with the Basel Action Network, the world's only organization focused on confronting global environmental injustice of toxic trade.

Project Cost/Savings…

Total Cost: $95,100

Rebates & Incentives: $50,000

Partnership Donation: $3,500

Net Cost: $41,600

Year 1 Production: 32,730 kWh

25 Year Production: 818,250 kWh

The Surplus Exchange

518 Santa Fe Street, Kansas City, MO 64105

Project Features…

About the Project

- 25 kilowatt solar system
- 100 solar panels
- Year 1 generation: 33,639 kWh
- 25 Year generation: 818,250 kWh

Did You Know?

- Surplus Exchange retrofitted their lighting system with Worldwide Energy in 2011
- The lighting retrofit saves the organization $1,967 annually
- It reduces 17,841 kWh annually
- That's equivalent to removing more than 27,000 pounds of carbon dioxide

About Worldwide Energy..

As commercial energy efficiency experts, we help our clients minimize utility expenses with energy efficiency lighting, efficient heating & cooling, and building envelope solutions.

Our efforts focus primarily on the areas that provide the greatest utility cost savings and where financial incentives create a rapid return on investment.

Worldwide Energy offers a total turnkey solution; utility rebate and Federal EPAct filing services (provided at no additional charge); complete design & installation services; recycling and project financing. Our services usually have a 2 year or less return on investment.

Client Concerns

Surplus Exchange had several objectives including:

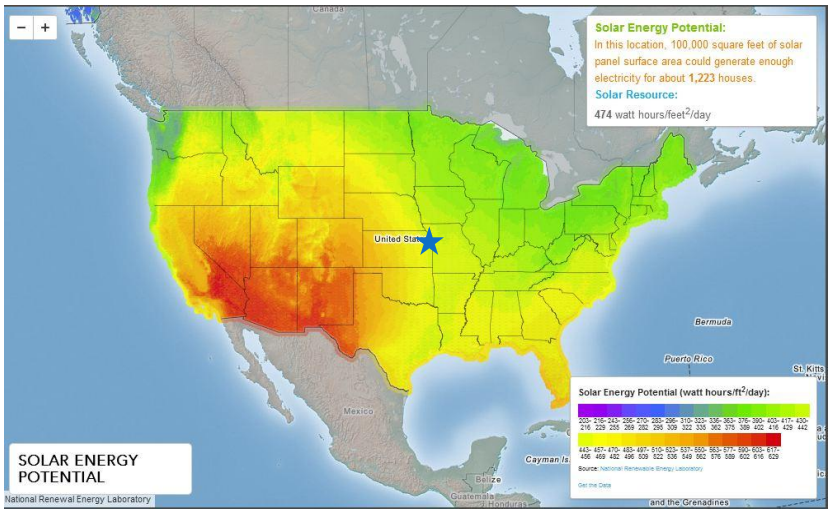
- Reducing annual operating expense
- Reducing energy consumption
- Utilizing renewable energy
- Contribute to a green environment & reducing dependence on fossil fuels
- Generating zero carbon dioxide emissions

The Scope of Work

The Surplus Exchange wanted to utilize renewable energy technology, and contribute to a cleaner environment. Because Kansas City has one of the highest rates of sun hours, solar energy continues to grow locally.

A 25 kW solar system was installed on the roof of the building, and will produce enough energy to power the organizations' facility.

The system consists of 100 solar panels that were installed by a 5-member Worldwide Energy crew. The system will generate 32,730 kWh in its first year and 818,250 kWh over 25 years.



After Photos