



# Efficient Energy of Tennessee Job Experience

## ***Business Overview***

At Efficient Energy of Tennessee (EETN), we provide a full array of renewable and efficient energy technologies to include solar photovoltaics, solar thermal and power conditioning equipment. We provide a complete service to include sale and installation as well as assistance with all incentive administration, Energy Audits and HERS Ratings. EETN is a **Service Disabled Veteran Small Business**.

## ***Products and Services***

We specialize in the sale and installation of residential solar thermal systems, commercial photovoltaic systems and commercial power conditioning systems. We provide turnkey systems to include thorough site visits, system design and installation, grant writing and administrative support regarding state and federal incentives. We also offer Energy Audits and HERS Rating services. We are a Velux 5-Star Installer and are an authorized dealer for Sharp USA, PV Powered, and Continental Power, LLC.

## ***Significant Accomplishments***

- 1.03 MW Ground Mount PV System, Natural Energy Group, Knoxville, TN. August, 2010. (Sharp panels, PV Powered Inverters, Terrafix Solarpark mounting). ***First MW Solar PV System installed in the Tennessee Valley Authority region.***
- 1.05 MW grid-tie solar photovoltaic system, Natural Energy Group, Jackson, TN. December, 2010. (Sharp panels, PV Powered Inverters, Terrafix Solarpark mounting). ***Largest Solar PV System installed in the Tennessee Valley Authority region.***
- AGC Glass Company North America, Inc. ***\$1.5 Million grant award from Tennessee Solar Institute Innovation Grants.*** December 2010.
- 500 kW Ground Mounted Solar PV, Wampler's Farm Sausage, Lenoir City, TN 37771. Scheduled complete date June 2011. (Sharp panels, PV Powered Inverters, Terrafix Solarpark mounting). ***Largest Solar PV power plant installed under the USDA REAP program.***

## ***Contact Information***

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Photo's: <http://www.flickr.com/photos/solarinstaller/sets/>

**Dixie Roofing, Inc.**

24.48 kW grid-tie solar photovoltaic system. Total project cost is \$240,000.

Installed August 2009.

144 NB Solar 125 x 125-72-P170W panels, Fronius IG Plus 6.0 UNI Inverters, mounted to standing seam roof using the Unirac SolarMount rail system and S-5 Clamps.

Tennessee Clean Energy Technology Grant.  
Federal Renewable Energy Grant.  
TVA Generation Partners Program



**Circle of Seven Yeoman, LLC d/b/a COSY Farms, Washburn, TN – 2 Barns,**

Total project is 21.855 kW. Total project cost is \$301,000.

Installed May 2010.

10.575 kW grid-tie with battery back-up solar photovoltaic system.

45 SHARP NU-U235F1 panels, 3 Xantrex XW6048-230-50 inverter/charge controllers, Unirac Solarmount mounting hardware, and 16 Batteries (UNIGY AVR95-29).

11.28 kW grid-tie with battery back-up solar photovoltaic system.

48 SHARP NU-U235F1 panels, 3 Xantrex XW6048-230-50 inverter/charge controllers, Unirac Solarmount mounting hardware, and 16 Batteries (UNIGY AVR95-29).

- Recipient of USDA Rural Development Rural Energy for America Program. Grant amount is \$75,250.
- U.S. Department of Treasury Renewable Energy Grants. \$90,300.

2 Velux Solar Hot Water Systems.



**Natural Energy Group, Knoxville, TN. Total project cost is \$7,500,000.**

1 MW grid-tie solar photovoltaic system.

Installed June 2010.

4,608 SHARP ND-224UC1 watt panels, 4 PVP-260LV-480 by PV Powered, Terrafix Solarpark ground-mount mounting hardware.

- U.S. Department of Treasury Renewable Energy Grants.
- TVA Generation Partners Program



### **Residential Solar PV System, Western, NC installation (equipment provided by another vendor).**

13.5 kW grid-tie with battery back-up solar photovoltaic system.

Installed July 2010.

60 REC 225 watt panels, 3 Xantrex 6048 inverters, 5 Xantrex charge controllers, DP&W Solar top of pole mount racking system, and 24 batteries.

North Carolina Renewable Energy Tax Credit (Personal)  
Federal Residential Renewable Energy Tax Credit



### **Hickory Corner Dairy**

28.2 kW grid-tie solar photovoltaic system. Total project cost is \$180,568.

Installed October 2010.

120 SHARP NU-U235F1 panels, 2 Sunny Boy 7000US inverters, 2 Sunny Boy 5000US inverters, DP&W Solar top of pole mount racking system.

- Recipient of USDA Rural Development Rural Energy for America Program. Grant amount is \$45,142.
- Recipient of Tennessee Solar Institute Solar Installation Grant. Grant amount is \$56,400.
- U.S. Department of Treasury Renewable Energy Grants. \$54,170.40
- TVA Generation Partners Program. Estimated Annual Production: 32,945 kWh. Should generate annual revenue of \$7,083



### **Oakes Daylilies**

28.2 kW grid-tie solar photovoltaic system. Total project cost is \$180,067.

Installed November 2010.

120 SHARP NU-U235F1 panels, 2 Sunny Boy 7000US inverters, 2 Sunny Boy 5000US inverters, DP&W Solar top of pole mount racking system.

- Recipient of USDA Rural Development Rural Energy for America Program. Grant amount is \$45,017.
- Recipient of Tennessee Solar Institute Solar Installation Grant. Grant amount is \$56,400.
- U.S. Department of Treasury Renewable Energy Grants. \$54,020.10
- TVA Generation Partners Program. Estimated Annual Production: 36,366 kWh. Should generate annual revenue of \$7,819

### **Oakes Farm, LLC**

28.2 kW grid-tie solar photovoltaic system. Total project cost is \$178,840.

Installed November 2010.

120 SHARP NU-U235F1 panels, 2 Sunny Boy 7000US inverters, 2 Sunny Boy 5000US inverters, mounted to standing seam roof using the Unirac SolarMount rail system and S-5 Clamps.

- Recipient of USDA Rural Development Rural Energy for America Program. Grant amount is \$44,710.
- Recipient of Tennessee Solar Institute Solar Installation Grant. Grant amount is \$56,400.
- U.S. Department of Treasury Renewable Energy Grants. \$53,652.
- TVA Generation Partners Program. Estimated Annual Production: 34,463 kWh. Should generate annual revenue of \$7,410.



## Family Brands International, LLC

29.61 kW grid-tie solar photovoltaic system. Total project cost is \$187,500.

Installed November 2010.

126 SHARP NU-U235F1 panels, 1 PV-Powered 30 kW inverter, DP&W Solar top of pole mount racking system.

- Recipient of USDA Rural Development Rural Energy for America Program. Grant amount is \$46,875.
- Recipient of Tennessee Solar Institute Solar Installation Grant. Grant amount is \$59,220.
- U.S. Department of Treasury Renewable Energy Grants. \$56,250.
- TVA Generation Partners Program. Estimated Annual Production: **37,067 kWh**. Should generate annual revenue of \$7,969



## SECO Tools

29.61 kW grid-tie solar photovoltaic system.

Installed November 2010.

126 SHARP NU-U235F1 panels, 1 PV-Powered 30 kW inverter, DP&W Solar top of pole mount racking system.

- Recipient of Tennessee Solar Institute Solar Installation Grant. Grant amount is \$59,220.
- U.S. Department of Treasury Renewable Energy Grants. \$59,061.
- TVA Generation Partners Program. Estimated Annual Production: **41,009 kWh**. Should generate annual revenue of \$8,817



### Sequatchie Cove Creamery

28.2 kW grid-tie solar photovoltaic system. Total system cost is \$187,500.

Installed December 2010.

120 SHARP NU-U235F1 panels, 2 Sunny Boy 7000US inverters, 2 Sunny Boy 5000US inverters, DP&W Solar top of pole mount racking system.

- Recipient of USDA Rural Development Rural Energy for America Program. Grant amount is \$46,875.
- Recipient of Tennessee Solar Institute Solar Installation Grant. Grant amount is \$56,400.
- U.S. Department of Treasury Renewable Energy Grants. \$56,250.
- TVA Generation Partners Program. Estimated Annual Production: 41,088 kWh. Should generate annual revenue of \$8,834



### McFarland Pharmacy & Apothecary

29.61 kW grid-tie solar photovoltaic system. Total project cost is \$187,500.

Installed December 2010.

126 SHARP NU-U235F1 panels, 1 PV-Powered 30 kW inverter, Sunlink ballasted mount racking system.

- Recipient of USDA Rural Development Rural Energy for America Program. Grant amount is \$46,875.
- Recipient of Tennessee Solar Institute Solar Installation Grant. Grant amount is \$59,220.
- U.S. Department of Treasury Renewable Energy Grants. \$56,250.
- TVA Generation Partners Program. Estimated Annual Production: **37,067 kWh**. Should generate annual revenue of \$7,969





### **Natural Energy Group, Jackson, TN**

1.05 MW grid-tie solar photovoltaic system.

Installed December 2010.

4,608 SHARP ND-224UC1 watt panels, 4 PVP-260LV-480 by PV Powered, Terrafix Solarpark ground-mount mounting hardware.

47 kW grid-tie solar photovoltaic system.

4,608 SHARP ND-224UC1 watt panels, 1 PV-Powered 50 kW inverter, Terrafix Solarpark ground-mount mounting hardware.

Federal Renewable Energy Grant  
TVA Generation Partners Program



### **Oak Ridge National Laboratory Solar Charging Station**

### **Riverview Housing Project, Kingsport, TN**

## Wampler's Farm Sausage Company, Lenoir City, TN

500 kW grid-tie solar photovoltaic system. Total project cost is \$ 2,346,674

2,240 SHARP NU-U224F1 panels, 2 PV-Powered 260 kW inverters, Terrafox Solarpark ground-mount mounting hardware.

- USDA Rural Development Rural Energy for America Program. Grant amount applied for is \$500,000.
- USDA Rural Development Rural Energy for America Program. Guaranteed loan amount applied for is \$984,468.
- U.S. Department of Treasury Renewable Energy Grants. \$704,002.
- TVA Generation Partners Program. Estimated Annual Production: 744,020 kWh. Should generate annual revenue of \$159,964.

