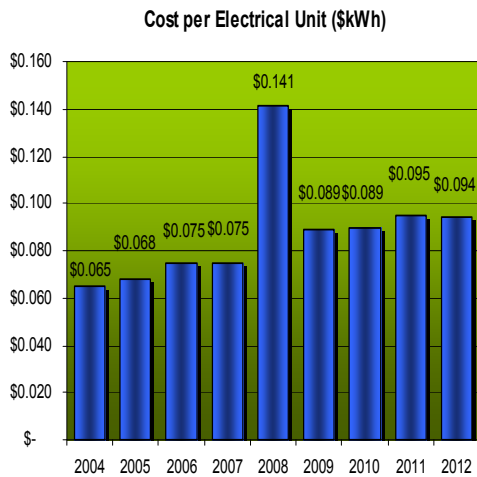


## Local Electrical Utility Cost History

The following shows the average annual cost history per kWh for Maryville, Tennessee (City of Maryville Utilities- provider). Although the future cost per kWh is not predicted, the chart offers an indication of anticipated increases. Fuel cost adjustments is reflected starting in year 2008.



Source: City of Maryville Utilities, Maryville, Tennessee

Year	\$/kWh
2004	\$0.065
2005	\$0.068
2006	\$0.075
2007	\$0.075
2008	\$0.141
2009	\$0.089
2010	\$0.089
2011	\$0.095
2012	\$0.094

## PV Solar Panel performance



Average Daily Sunlight Hours Available for Solar Electric (PV) Panels

This solar sunlight availability chart shows the average hours of DNI (Direct Normal Irradiance). To estimate the net daily production of a stationary solar panel facing south and elevated to an angle to match the latitude, a good rule of thumb is to simply multiply the peak watts (as stated on the solar panels UL Listing) by the above DNI values for your area. This calculation will provide a conservative estimate of the average net daily production of a solar panel.

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*Discovering Solar by Design*



*ÆG Energy Solutions* specializes in solar systems to provide free electrical energy from the sun.

Photovoltaic (PV) modules are used to collect sunlight to produce electricity. The electrical output from the PV panel array is processed to match the existing power provided from the local electrical utility.

Increases in energy cost, dependence on oil and other carbon producing combustibles have resulted in federal government financial incentives for businesses to choose solar electric power to produce Green Energy. Choosing Solar to power your business is the first step to gaining control of your present and future energy costs.

*ÆG Energy Solutions* offers a comprehensive service to handle the switch to Solar Green Energy.

*AEG Energy Solutions* understands you have a business to run. We will handle the details so that you don't have to. Our commitment is to make it easy for your switch to solar.

Each "Turn-Key" system consists of PV solar panels, structural elements, and controls and is created to the custom specifications of each customer.

*AEG Energy Solutions* will come to your residence or business to determine the best size, mounting arrangement and positioning to ensure the best operation of your System and provide you with a detailed design and installation plan.

A well-designed and maintained PV system will operate for more than 25 years. The PV module, with no moving parts, has an expected lifetime exceeding 30 years.

*AEG Energy Solutions* Solar Systems are designed to work while connected to the local electric utility grid, allowing you the ease and comfort of generating electricity during daylight hours and drawing from the grid during nighttime hours.

TVA will purchase 100% of the power produced from your PV solar system while you purchase energy from the local utility at a lower rate. TVA created Green Power Providers® as a "dual-metering" option. The Green Power Providers program uses two meters to monitor the green energy output.

#### ***AEG Energy Solutions will:***

- *Demonstrate financial value.* Study your site and energy use to demonstrate how solar can save you money.
- *Identify financial incentives.* Identify tax incentives and special programs for your eligibility.

- *Rebate administration.* Obtain and complete paperwork required to receive tax credit.
- *Tax incentives.* Provide the paperwork you will need to enable your tax advisor to file your tax return.
- *Building permits and inspections.* We will handle the interaction with local permit offices and will be present during the final site inspection.
- *Interconnection administration.* Initiate and handle agreements with the local utility provider. Schedule and manage site inspections.
- *Return on investment.* *AEG Energy Solutions* will assist you in maximizing your ROI.

#### **Federal Tax Credit**

Solar systems qualify for a 30 percent Federal tax credit.

#### **Income from Solar**

##### ***TVA Green Power Providers:***

TVA and participating power companies offer consumers an opportunity to earn money and help protect the environment, a program called *Green Power Providers*.

Program participants benefit by defraying the costs of their renewable system installation and lowering their monthly energy bills through the revenue they receive from the sale of the green power.

#### **GREEN POWER PROVIDERS PROGRAM:**

- A Photovoltaic solar system installed by a customer served by a participating power company of TVA is eligible to participate.
- TVA will purchase all of the green energy output at a rate of 9 cents per kilowatt-hour as a premium payment **above the retail rate and any fuel cost adjustments.**

For example, if you pay your power company 10 cents per kWh for the electricity you use, then TVA will pay you 19 cents (10 cents plus a 9 cents guaranteed premium) per kWh for 100% of the green energy generated from your solar PV system.

An 8 kW solar photovoltaic (PV) installation in the Valley generates an average of 840 kWh per month.

Credit:

840kWh X \$0.19 kWh (average retail rate of \$0.10 + solar premium \$0.09) = \$159.60

- *Green Power Providers* participants will receive a \$1,000 incentive to help offset start-up costs.
- The participating power company will provide monthly statements showing the energy used and any credit due. Power bills will be reconciled either monthly or annually, at the discretion of the participating power company.

Program participants are guaranteed payments for 20 years from the start of the agreement with the local power company.