



Twin TierTM Solar and Wind

Let's Do the Right ThingTM





As you know, solar energy is created from the sun. Solar panels (photovoltaic cells) are used to convert sunlight into electricity. The thing that is really great about solar energy is that it provides an indefinitely renewable energy source (the sun is not going to go out any time soon).

Solar panels are extremely reliable and require little maintenance mainly because they have no mechanical parts that can fail. In addition, they produce energy silently.

There are many reasons that you should consider solar now:

- ◆ **Save money** - In many cases, our customers pay less for their electricity from day one. Plus the government kicks in cash to help you pay for your system.
- ◆ **Use your tax dollars on yourself** - If you pay taxes, it's very likely that you can benefit from generous federal and state tax credits.
- ◆ **Help the environment** - By producing your own electricity, you leave no carbon footprint.
- ◆ **Protect yourself** - Practically every year, utility companies raise their rates. With solar, you're protected against utility inflation, you know what you are paying or have paid. The amount doesn't change. Plus, system payback is usually quick, and when it's paid-off, you really rack-up the savings.



Lindsay Mills - President



"Twin Tier Solar and Wind is a family-owned and operated company. We are local to the Southern Tier, based in Elmira Heights, and all of our employees live, work and contribute in this area. We believe in solar, we use it at our headquarters, and we stand behind our work."

- Lindsay Mills

Twin Tier Solar and Wind is an experienced and well-qualified solar installation company. To date, we have installed more than 4.5MW of solar in the Southern Tier Area of New York. That's enough solar to power about 900 homes. We've installed solar for large solar farms, commercial businesses and residential.

We are headquartered in Elmira Heights, and we have offices in Ithaca and Endwell.

- ◆ We hire locally and support the local economy
- ◆ Our installation project managers are NABCEP Certified and our installers are highly trained
- ◆ We sell products that are MADE IN AMERICA
- ◆ We stand behind our work

Our parent company, **John Mills Electric** is an established staple in the Southern Tier, and has been in business since 1946. The company employs approximately 200 electricians.



It's good to have an established electrical contractor on your team when it comes to solar.

With Twin Tier Solar you can rest assured knowing that:

- ◆ You're system incorporates the best materials
- ◆ You're system has been installed by highly trained and experienced professionals
- ◆ You're system is backed by a local and established company

What does it cost?

Over the past couple of years, solar has become very affordable. Most customers can benefit from the rebate offered by the New York State Energy Research and Development Authority (NYSERDA), and if you pay taxes, there's a good chance that you can take advantage of federal and state tax credits.

For customers who want to finance their solar systems, many great financing programs, specifically designed for renewable energy solutions have also become available.

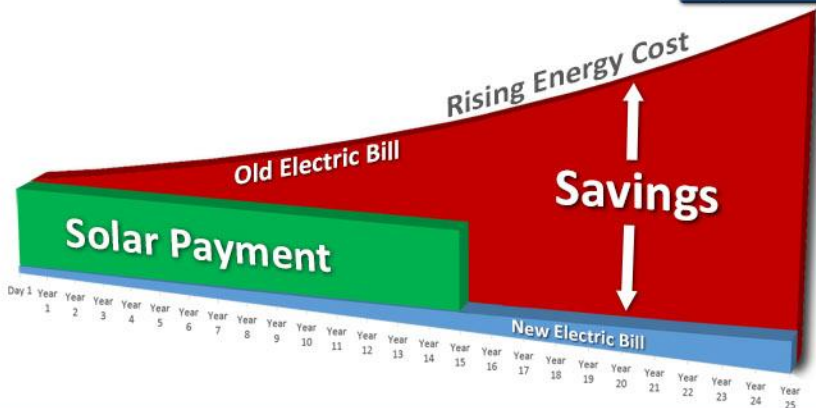
Example: Typical residential solar system cost breakdown:

Solar System size (based on usage history): 6600 watts (6.6KW)
Electricity Produced: 7124 kWh/year

- \$20,519 This is the actual **total system cost**. Includes all materials, labor and warranties.
- (\$ 2,640) This is the amount that **NYSERDA** would pay on your behalf (At the time this publication was printed, the rate was @.40/watt. This rate decreases periodically.)
- \$17,879 This is the cost to you at the time the system is installed.
- (\$ 5,364) This is the amount that you could be eligible for as a **federal tax credit** when you file your yearly tax return.
- (\$ 4,470) This is the amount that you could be eligible for as a **state tax credit** when you file your yearly tax return.
- \$ 8,045 Final Net Amount** once rebate and credits are applied.

Financing: There are several possible options available. For the example above, most people would choose to finance the tax credits portion on a short-term, no-interest, no-payment loan. In most cases, they would pay the loan off as soon as they realize their tax credits.

The Final Net Amount would be financed longer term so that the payments for the solar system would be less than the customer's previous electric utility bill.

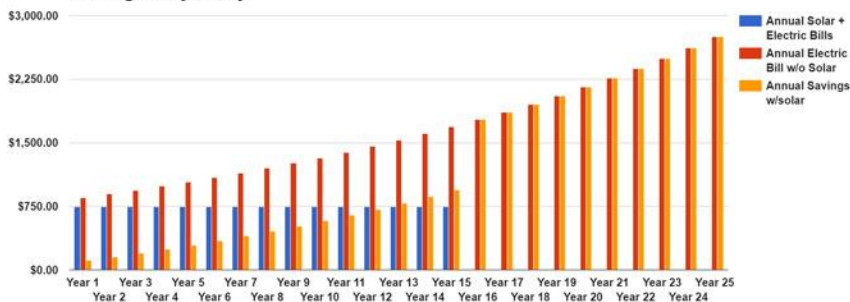


When designing a solar system for you, we will always try to decrease your electric bill as much as possible. In many cases, the solar system will take care of all of your electricity needs.

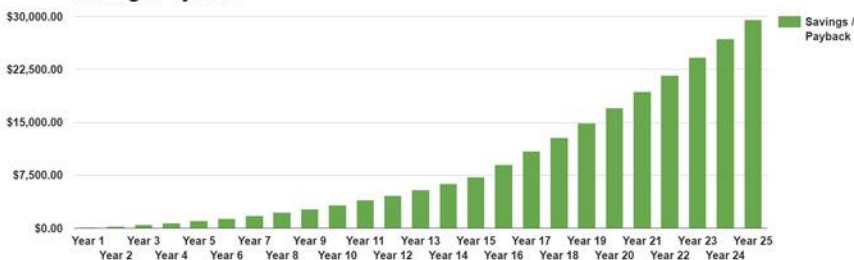
In considering the example on the previous page, let's say their current electricity bill is \$71/month. If they finance their Net Final Amount for 15 years, and pay-off a short-term no-interest no-payment loan with their tax credits, their payment would be approximately \$62/month. That's a savings of about \$9/month in the first year.

Their solar system could last well beyond the warranty period, but if we look at the savings picture for the system up to a 25-year warranty period, it would look something like this:

Savings Trajectory



Savings/Payback





What's the process?

You've decided that you're interested in solar. Now what?

1. Initial Assessment and Proposal

- ◆ Through software, we do a preliminary visual assessment of your property to see if you are a good solar candidate.
- ◆ You provide us with some information from your electric bill so that we can determine the size of solar system you need based on your historical usage.
- ◆ We generate a proposal/contract, conduct a site visit and discuss the proposal with you. If solar looks like a good option and you want to proceed, you sign the proposal and we proceed.

2. Pre-installation activities

- ◆ If necessary, we work with you to make sure that your financing is in order.
- ◆ We perform a site survey of your property to make sure that your property is constructed properly both structurally and electrically for a solar install.
- ◆ We submit rebate forms to NYSERDA, and acquire any required city permits and approvals for construction.
- ◆ We purchase all materials needed for your solar system.

3. Installation

- ◆ Once all approvals have been received, and materials have been delivered, we install your system.
- ◆ The electric company installs their net meter.
- ◆ The final electrical inspection is performed.
- ◆ YOU ARE UP AND RUNNING WITH SOLAR!

Timeframe: The entire process usually takes from 7-14 weeks depending on how long it takes to get approvals and the net meter installed.



The Sun

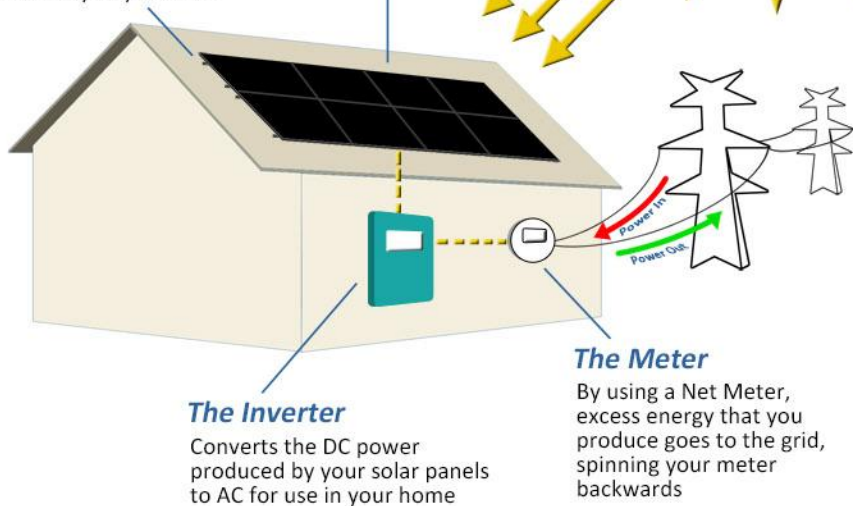
The sun provides an endless supply of renewable energy

Racking

System designed specifically to attach the solar array to your roof

Solar Array

Solar Panels (PV) convert sunshine into electricity



The Inverter

Converts the DC power produced by your solar panels to AC for use in your home

The Meter

By using a Net Meter, excess energy that you produce goes to the grid, spinning your meter backwards

Net Metering Benefit

The goal of any solar installation is to reduce, and ideally eliminate your electric bill. When the sun is shining, your solar panels will produce electricity. When the sun isn't shining, you will use electricity from the utility grid.

A net meter allows for electricity produced by your panels to offset what you are using from the grid. When the solar power generated exceeds what you've consumed from the grid, your electricity bill is minimized.



The Problem

The environmental problems facing our world today; climate change, air pollution, oil spills and acid rain, result from our dependence on fossil fuels.

Fossil fuel emissions produce heat-trapping gases that are the main cause of the escalation in global atmospheric temperatures. Despite global warming indicators, oil companies continue to exploit increasing human energy needs and constantly look for untapped oil and gas sources.

The Solution

- ◆ Manage and Reduce Emissions
- ◆ Increase Energy Efficiency
- ◆ Buy Renewable Energy

The Impact of Solar

Yeah, yeah, yeah... you hear this all the time. "How can I make a difference," you ask? The answer: **Install a solar system.**

Over the life of an average 6600 watt residential solar system, 163 tons of CO₂ will be eliminated from your carbon footprint.

That's the equivalent of:

Planting
3,798
Trees



Reducing your driving
by 326,000 miles, or
saving 16,626 gallons
of gas



Recycling 515 Tons of
waste, instead of
sending it to a landfill

Reducing the coal
being burned by
158,831 pounds
(79.4 tons)





"I honestly could not be more happy with the work that Twin Tier Solar did. Everything was done professionally from top to bottom. Their people were great, and everything worked out exactly as I was told it would."

- Dr. William Muuse,
Horseheads, NY

"At Tanglewood Nature Center, one of our primary interests is caring for the environment. As a solar company, Twin Tier Solar shares this interest. Twin Tier did a wonderful job on our solar system, it's working perfectly, and it feels great knowing that we're helping the environment each day."

- Elaine Spacher
Elmira, NY

"We were extremely pleased with the entire experience we had with Twin Tier. They were very attentive and informative throughout the entire process... from the initial meeting through the final sign-off. The system is working beautifully, and we look forward to using the money we're saving for other things."

- Earle Reome
Vestal, NY

"The design for our home was great and the integration with the grid is excellent. Twin Tier addressed the questions I had in a timely and accurate way, and the installation has been trouble and maintenance-free. In a nutshell, the experience has been superb."

- Dr. Guerry Howard
Elmira, NY



Bath, NY
9.54kW



Buffalo, NY
365kW



Horseheads, NY
9.9kW



Lowman, NY
5.13kW



Burdett, NY
7.98kW



Ithaca, NY
8kW



Elmira, NY
15kW



Horseheads, NY
5.57kW



For individuals and businesses wanting to save money on their energy bills, and at the same time recapture some of their federal and state income taxes, Twin Tier Solar and Wind provides the comprehensive alternative energy solutions that you are looking for.

Twin Tier constantly seeks out the best and latest solar and small wind technologies and provides them to customers at a competitive and affordable price.

Unlike other alternative energy companies, Twin Tier uses only high quality products, installed by our own professionally trained technicians, ensuring that our customers get the very best product possible.

Visit us today at www.ttsolarandwind.com.

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