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Arlington, WA USA
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Now
Saving
the Planet
is even
More
rewarding.

5 Products that
convert solar
power into savings
on your utility bill!



SOLAR POWER

Good for the planet — now it looks good on your power bill too!

For over one hundred years we've known that photons from the sun produce electricity. Now thousands of people around the world are using affordable PV solar panels to make useful household electricity.

Solar panels make power when the sun shines—often more electricity than your home can use. When the solar panels are generating more power than your home needs it may be stored in batteries. Millions of people store electricity this way to use later to protect themselves from power failures. For a time, storing excess power in batteries was the only choice. Now there is another option.

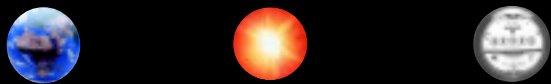
In the last few years 30 states in the USA have made it possible to do something else with excess power created by solar energy. In these areas, if you make more electricity than you use, the excess can be sent into the power lines (this is known as net metering). You can make a positive contribution to the environment by using solar PV panels and save on your power bills as well.

Trace Engineering makes inverters which convert solar power into utility grade electricity for your home or business. All of

the inverters in this brochure are designed to send excess power to the utility company. Two of these five inverters, the PS and the SW Series allow you to store power in batteries so that if the power fails many of the most important electrical devices will automatically continue to operate in your home or business.

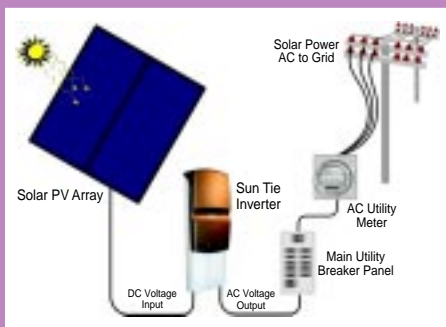
Some Trace inverters are designed solely to convert solar electricity into power which is sold to the utility company. These Grid Tie inverters can really help the environment by supplying solar power instead of coal, oil or nuclear to the utility at an affordable cost. The ecologically minded citizens of Holland have installed some 20,000 small Grid Tie inverter systems since 1998. (See MS100 Line Tie inverter).

Do you want to help the environment and produce electricity from the sun? Do you want to sell solar electricity to your local utility company and provide your family with secure backup power during power outages? Virtually anyone can become a green power producer with a Trace utility interactive inverter. From 100 watts to a megawatt Trace has the capacity to fit your needs.



How a Grid Tie Inverter works

The process begins with the sun shining on solar panels, creating DC electricity which flows to the Trace inverter. The inverter processes the power into household electricity and the electricity goes first into your home to power electric devices. When more electricity is created than your home can use, the extra electricity flows to the utility grid (where allowed, check with your local utility for details), and in essence turns your electrical meter backward! -- saving you money. Everybody wins.



Even if you don't sell solar energy to your utility Trace Engineering inverter/chargers are a great way to protect your family from power outages. These inverters use batteries to store electricity. In the event of a power failure the PS or SW Series will automatically and instantaneously begin to supply power to your home. And when you decide to add PV to your system you'll be ready to sell solar electricity to the utility grid.

SELL SOLAR POWER TO UTILITY COMPANY

SELL TO UTILITY + POWER SECURITY

Compare 5 Trace Inverters Designed To Save You Money on Your Power Bill

Micro Sine (MS100)

This is a small size, simple inverter - use one or several - the economical choice for an ecological statement. It **does not** have the option to store excess power in batteries.

- Simple installation
- Small-scale 100 watts (add panels as needed)
- Helps protect environment
- 100 watts of solar panels on a sunny day could power five 20 watt compact fluorescent bulbs for five hours



Sun Tie (ST Series)

This inverter works with larger solar arrays on the home. It **does not** have the option to store excess power in batteries.

- Economical
- Four sizes: 1000 to 2500 watts
- Easy to operate
- All-in-one design
- Maximum Power Point Tracking
- Simple installation



PV Series Utility Tied Inverter

This inverter is used for smaller 3-phase commercial PV applications. It **does not** have the option to store excess power in batteries.

- Available in 5, 10, 15 and 20 kW configurations
- Maximum Power Point Tracking
- 300 - 600 VDC power in— 208/120 VAC or 480/277 VAC 3-phase 50-60 Hz power out
- Affordable commercial line-tie inverter
- Optional DAS with modem



PS Series

This inverter is an economical way to store power in batteries for backup power and sell the excess to the utility.

- Combines with batteries to provide backup power when needed
- Economical 2500 watt power (combine two for 5000 watts)
- Simple operation
- Three stage advanced battery charger
- Optional remote LCD display



Sine Wave (SW II Series)

A sophisticated, programmable inverter that allows you to send power to the utility or to store it in batteries for backup use.

- Adjustable parameters
- Auto generator start
- Multiple relay control
- 2500-11,000 watt output
- LCD display for programming & information
- Three stage advanced battery charger
- Combines with batteries to provide backup power when needed



ECOLOGY ECONOMY

Power Solutions from Trace

All of the exciting renewable energy conversion products in this brochure are available from Authorized Trace Engineering Distributors and their resellers who are trained to assist you with specific application questions. Detailed information, specification sheets, and full line catalog/design guides are available to provide you with more information on our great product line. Please contact your local Trace supplier for assistance.

