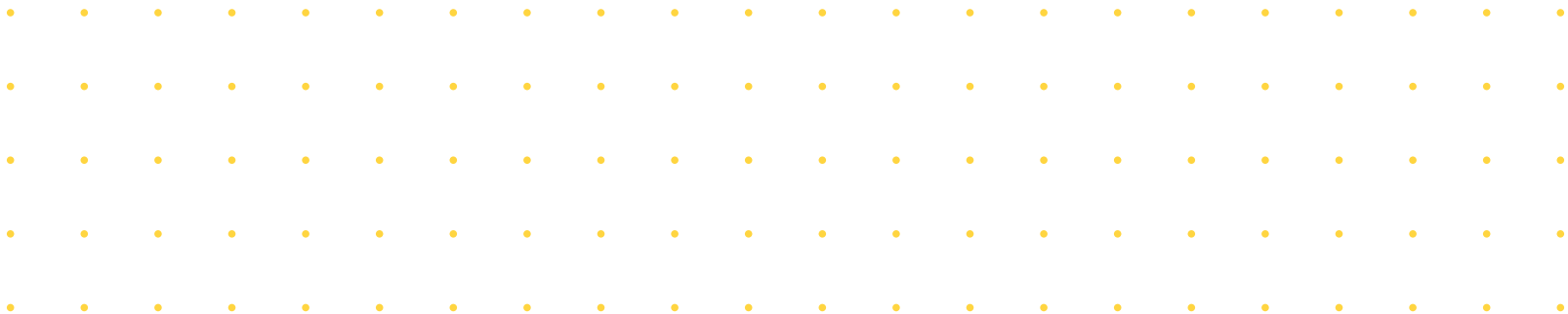


# Be Part of the Solar Solution

Complete Systems for Solar Electricity and Hot Water







We're making  
The world a  
better place



## Build Sustainability

Schüco is one of the world's leading providers of solar energy technology, offering low-maintenance, fully integrated high-performance systems engineered for efficiency and long life, and designed to fit your lifestyle. Our systems are guaranteed to deliver clean energy for a minimum of 25 years.

We've been around for 55 years, and our systems are in use all over the world, so you have the peace of mind of knowing that we'll be here for you today, tomorrow, and into the future.

Our fully integrated photovoltaic systems turn sunlight into electricity, delivering free electricity to your home.

Our third-generation, highly integrated thermal systems capture heat from the sun and store it in a high-efficiency tank for use in the home.

Thousands of Schüco systems reliably generate clean energy worldwide, from Europe to Australia.

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## Be Part of the Solution

Energy consumption, energy independence, and global warming are key issues of our time. Fossil fuel reserves are dwindling, and burning coal and oil is the main cause of global warming. But there is a solution – renewable, clean energy. By going solar you become part of that solution.

The time is right. Energy prices are rising, and federal tax credits and solar rebates are available for new solar installations.

So become part of the solution. It's the right thing to do, for yourself, your loved ones, and the planet. With our long-lasting systems, you'll be making a difference for many years to come. Go solar with us, and help build sustainability.

Schüco is committed to comprehensive sustainability, through:

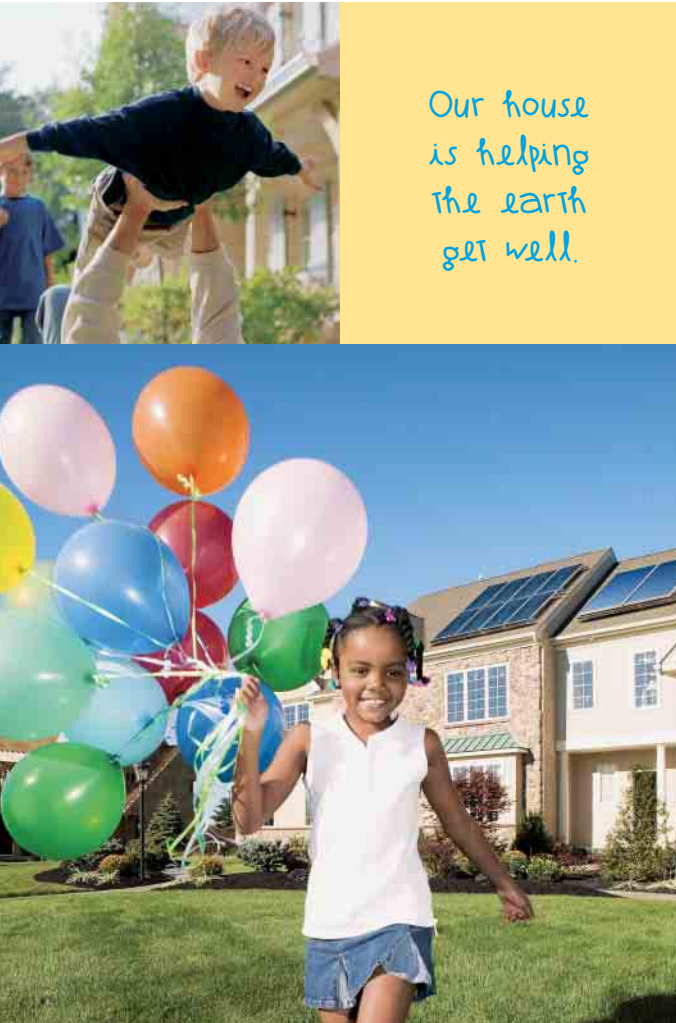
**Energy** – saving it and generating it.

**Security** – protection from extreme weather, crime, fire, and other dangers.

**Convenience** – making sustainability easy to live with and easy to enjoy.

**Design** – well-made, beautiful products you'll enjoy for years.

Schüco solar energy systems not only create renewable energy, they're also safe, easy to use, aesthetically-pleasing enhancements to your lifestyle.





## Complete Confidence

We provide complete solar energy systems for residential and commercial installations. The Schüco solution includes all components, including panels, collectors, tanks, mounting system, control units, and monitoring electronics.

That means you get everything from one source, ensuring interoperability and greatly simplifying replacements and upgrades. It also means that the different elements of your Schüco solar energy system are optimized to give you the best total performance.



### Schüco solar energy systems give you:

**High efficiency.** Schüco technology delivers high output, guaranteed.

**Design.** Schüco works with the best European designers to offer high-end products that blend in perfectly with your home.

**Convenience.** Our systems are exceptionally easy to live with. Schüco solar thermal systems are very long-lasting and low-maintenance. Our photovoltaic systems uses world-leading inverters that digitally display the kWh produced. We also offer wireless devices that remotely show the output of your personal power plant - the perfect way to share your sustainability commitment with family and friends.

**Fast installation.** Utilizing commercial grade building technologies, Schüco systems are fast and easy to install with minimum impact on the roof and extremely short installation times.

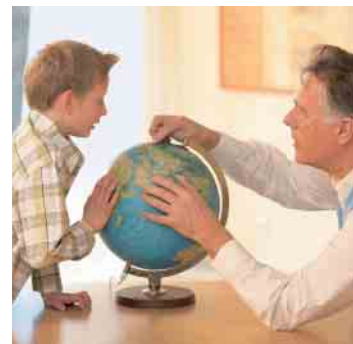
**Guaranteed performance.** We stand behind what we sell.

**Reduced energy costs.** You'll be lowering your energy bill from day one.

**Durability and reliability.** We engineer our systems to give you many years of dependable service.

**Security.** Your Schüco solar energy system can stand up to virtually any weather.

**Tested excellence.** The quality of our solar products is second to none, and we make sure of it at our Technology Center, one of the best-equipped testing facilities in the world. We test our systems under simulations of vicious hail, torrential rain, high winds, and anything else the weather can dish out. You can have complete confidence in our solar products.



# Photovoltaic is ...

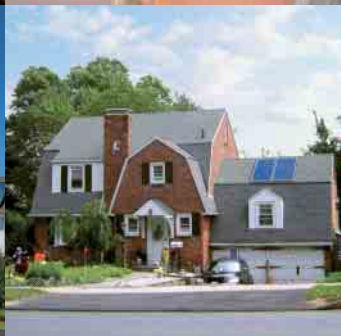
... Helping save energy ... Electricity from sunshine ... Lower electric bills ... Good for the environment ... A great way to be part of the sustainability solution ... An investment that pays for itself ... Helping to reduce global warming ... As easy to use as flipping the switch ... Practically maintenance-free ... Non-polluting ... Helping us to be more energy-independent ... A good choice for a good future ... Peace of mind ... Energy independence







We have our own power plant right on the roof. It makes electricity all day!



## Electricity from the Sun

Photovoltaic solar systems use sunlight to generate electricity. The potential is huge – with current PV technology we could supply all U.S. electrical needs by covering only one third of one percent of our country's land area in modules. There are no moving parts, so once installed they deliver energy as long as the sun shines. The solution is there, and you can be part of it.

More and more areas have energy buy-back programs (called net metering), allowing owners of solar systems to sell excess electricity back to the power company. The power companies like it, because they buy electricity from you when they need it the most, during the day, when companies and air conditioning units are running at their peak. It is a true win-win situation.

Our photovoltaic systems are fully integrated and carefully coordinated for maximum long-term output.

With Schüco, you get:

- Fast installation by a Schüco-trained installer
- Maintenance free convenience
- Guaranteed performance for up to 25 years\*
- Dependable quality
- Lower electricity bills
- Enhanced home value
- The satisfaction of knowing you're part of the sustainability solution

Our PV systems include everything needed – modules, inverter, switch and mounting hardware. They can also be combined with our thermal systems for an all-inclusive solar energy solution.

\*see Schüco USA Solar Warranty for details



Our roof  
makes power all  
day long





## Your Schüco Photovoltaic System Includes:

### Modules

The module turns solar radiation into electricity. Our PV modules have very high performance and long life. Each individual module is output-tested before it leaves the factory, so you and your installer know exactly what it will deliver. We stand behind our modules with a 25 year warranty.\*

The anodized aluminum frame is corrosion- and torsion-proof, and the front is protected by tempered safety glass for durability. Our modules will look good on your home for the life of the system.

\*see Schüco USA Solar Warranty for details

### Inverter with Digital Display

The inverter converts direct-current (DC) power from the modules into standard alternating-current (AC) power. It contains a display which shows you what your system is generating. Solutions also include web monitoring with real-time production graphs and USB connections to a PC.

### Switch

The switch protects your solar module array by cutting off the grid connection in the event of harmful grid power fluctuations or outages.

### Net Metering

When your system produces electricity, it feeds the power to your existing electrical panel, which then distributes the solar power (and any utility power needed) to your load center in a normal manner. If you have a so-called „net metering“ agreement with your local electric utility, any excess power generated by your system is sent back to the utility. When you generate more power than you need, your electric meter spins backwards and you are only charged for the net energy you consume.

### Mounting Hardware

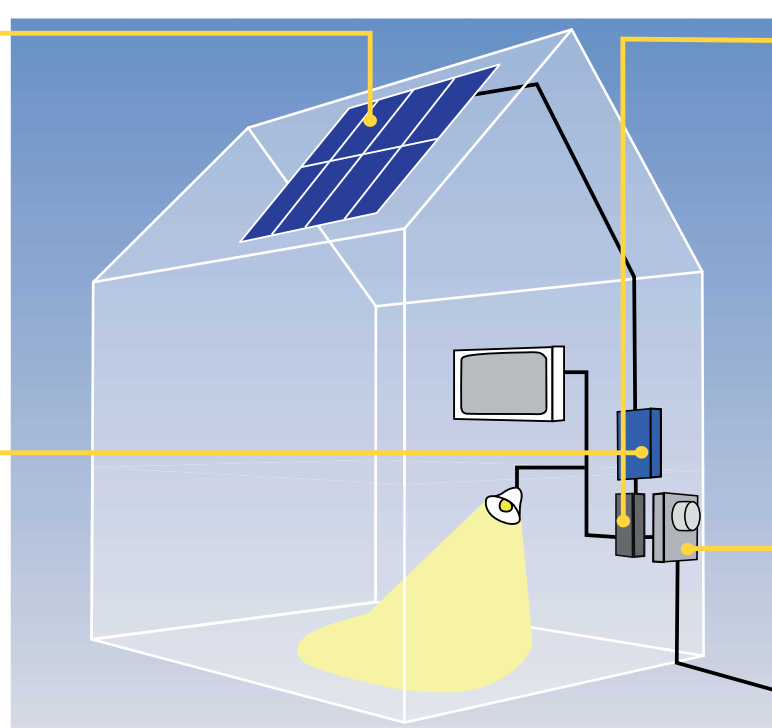
Our SolarEZ mounting system for all modules is carefully engineered for durability and maximum strength.



**Schüco Photovoltaic Module**  
Generates electrical current from sunlight.



**CombiSwitch**  
Interfaces between PV system and grid power.



**Schüco Sunnyboy**  
Inverter converts DC.



**Electric Meter**  
Measures incoming and outgoing electricity. Spins backwards when house PV system feeds power to grid.\*

\* other configurations possible

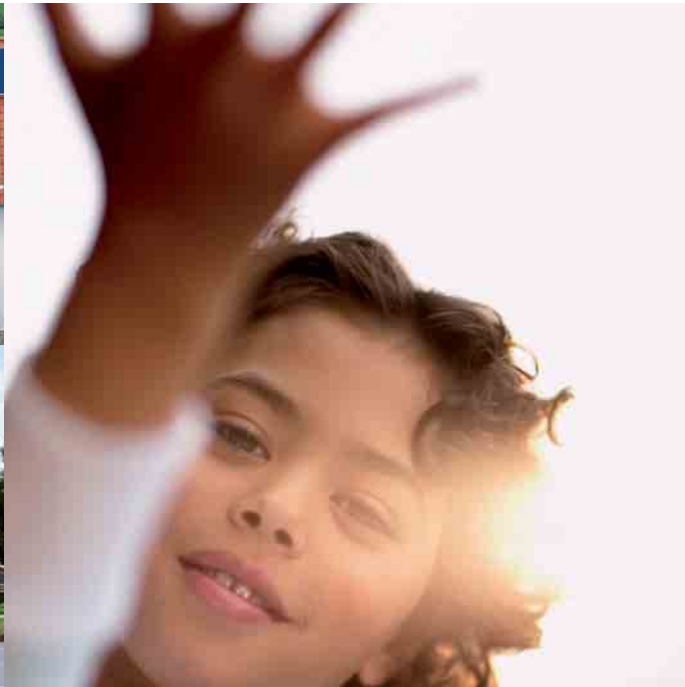
# Solar thermal is ...

Hot water from the sun ... Doing something about rising energy costs ... Knowing that you're part of the solution ... Good for the environment ... Amazingly efficient ... As simple to use as turning the tap ... Part of a sustainable lifestyle ... Always available ... Lower utility bills ... A good decision ... Reducing our dependence on foreign oil ... Ecologically sound ... A great way to contribute to a brighter future.

The sun  
heats our  
water up  
on the roof,  
all day long









We get our  
hot water  
from the sun,  
even when  
it's cloudy.

## Hot Water from the Sun

Solar thermal is the collection, storage, and use of heat from sunshine to make hot water. It is one of the most efficient means of using solar energy. Think about how hot your car gets when you park it in the sun – with a thermal system, you capture this energy and make it work for you. There is a huge amount of energy in solar radiation, and the sunshine on one square foot in one year is equal to the energy in 2.5 gallons of oil. Even on cloudy winter days, two or three collectors can easily supply all the hot water for an average family. Two or three collectors can easily supply all the hot water for an average family on sunny days. Even on cloudy days, they can make a substantial contribution and cut utility bills.

Our solar thermal is a far cry from the old systems you may have seen. Our collectors are much more effective, and infinitely better-looking. We know you're proud of your home, so we designed them with sleek lines; an attractive, smooth surface. They blend in perfectly with your roof line and make a statement about taste and innovation.

Schüco's third-generation, closed-loop technology is at the leading edge of efficiency and reliability. Our systems are practically maintenance-free. They install quickly, with no "dirty work" in your home. The system is up and running with minimal disruption in your routine.

With Schüco solar thermal, you get:

- Fast installation by a qualified, Schüco-trained installer
- Maintenance free convenience
- Guaranteed performance
- Long life and dependability
- Lower utility bills
- Enhanced home value
- The satisfaction of knowing you're part of the sustainability solution

Our thermal systems include everything needed – collectors, fluid, tanks, valves, control instrumentation, and mounting hardware. They can also be combined with our photovoltaic systems for all-inclusive solar solutions.





## Your Schüco Thermal System Includes:

### Collectors

These turn solar radiation into heat. A non-toxic, freeze-proof fluid running through a pipe in the collector picks up this heat and transfers it to the rest of the system.

Schüco collectors give industry-leading heat collection efficiency. Tempered safety glass, a tough aluminum frame, and corrosion-resistant materials ensure long service life. Our award-winning Premium collectors are architectural-grade collectors with clear glass, rounded edges and the industry's most finished design. Our Slim collectors provide the same performance in a standard configuration and lower price.

### Storage Tank

The storage tank is where the heat from the collectors is transferred to your water system and stored. The solar fluid never touches the water.

### Expansion Tank

Solar collectors get hot, and the solar fluid expands and contracts as its temperature changes. The expansion tank gives it a place to do this.

### Solar Station

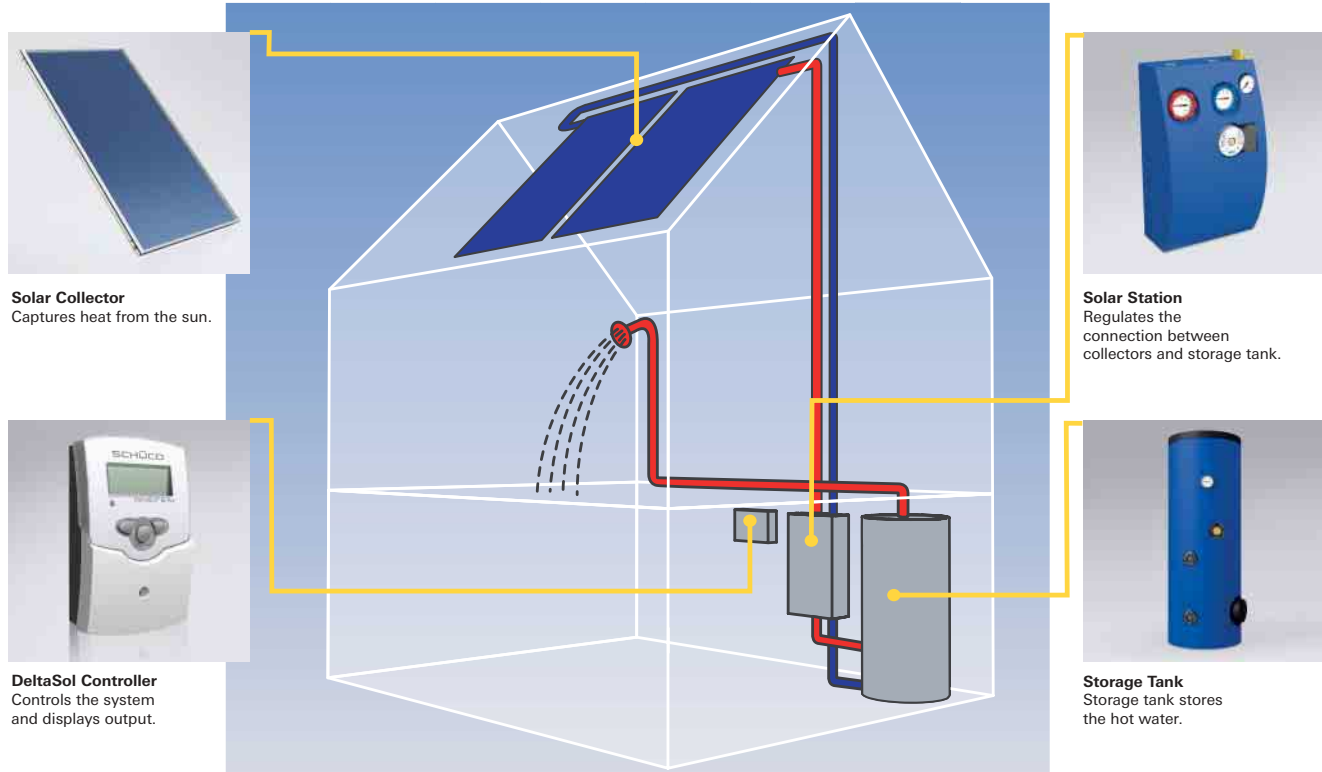
This contains all the "plumbing." We install the pump, valves, and fittings in the factory so that everything works the first time. No additional soldering is necessary in your home.

### Controller

The DeltaSol provides automatic system control and shows your system's yield and temperature.

### Mounting Hardware

Our SolarEZ mounting system is carefully engineered for durability and strength to mount the collectors on the roof.



# Solar Energy is ...

... Tapping into the most direct source of power ... The natural thing to do ... Helping the planet ... Reducing energy costs ... Always going to be there for us ... Easy to do ... Environmentally responsible ... Part of the solution to global warming ... Reducing pollution from fossil fuel ... A clean source of energy that will never run out ... The satisfaction of doing the right thing ... A wise investment in a sustainable future



Our house  
makes energy  
from the sun,  
so the Earth can  
get better.







## Solar Energy FAQs

**Q: Is solar power for everybody?  
What if I live up north?**

Anybody who has a good site can benefit from a solar energy system. Once you get it installed, the power is free. And solar isn't just for the sunny south – solar works even in high latitudes. Schüco systems are in use around the world, and we have long experience with all kinds of weather extremes. Our systems work efficiently in pretty much any climate.

**Q: Does solar work only on sunny days?**

A: Your system will work most days, even when it's cloudy. Cloud cover reduces the amount of solar radiation reaching the panel, but your system will produce some electricity and/or heat on all but the most overcast days.

**Q: Will a photovoltaic system give me electricity if there's a power outage?**

A: That depends on the kind of system you have. PV systems with battery back-up will provide electricity if the power goes out.

**Q: Will a solar thermal system give me hot water if there's a power outage?**

A: The pump that circulates the solar fluid runs off electricity, so in a power outage it won't operate. Of course, if you have a combined solar thermal and electrical system with battery back-up, even during a power outage you'll have electricity to run the pump, so you'll have your normal hot water supply.

**Q: What's the best place to mount solar panels?**

A: Direct sunlight is the most important factor. For most people that means mounting the system on the roof, so we've devoted much time and effort to creating the best rooftop mounting system in the industry. It fits on shingle, pitched or flat roofs, and has many engineering features that make it intrinsically sturdy.

**Q: Are solar energy systems vulnerable to wind damage?**

A: Our modules and collectors have tempered safety glass set deep into sturdy frames, and our mounting system is extraordinarily robust. If properly installed, our systems are at least as strong as the roof they are mounted on, if not stronger.



The sun  
shines on  
everybody





**Q: How long will my system last?**

A: If properly installed, it should last many years. Ours last a very long time. In fact, we guarantee the performance of our PV modules for 25 years\*, and our thermal collectors for 10 years.

\*see Schüco USA Solar Warranty for details

**Q: I've seen houses with old solar collectors that are full of unsightly algae. Can that happen with a Schüco thermal collector?**

A: No. Our solar collectors use propylene glycol instead of water. Propylene glycol is a more efficient

heat transfer agent, it doesn't freeze, and algae won't grow in it. It is safe and nontoxic.

**Q: How will a solar energy system affect my home's resale value?**

A: Studies show that most Americans would be willing to pay more for a home with a solar system already installed. And of course, as energy costs rise, anything that lowers those costs will add to a home's value. In addition, our solar systems are designed to be aesthetically pleasing – they look good on a roof.



I like our solar house.



## Let's Build Sustainability Together

The sun isn't going to go away. All we have to do is tap into it.

Every solar system that somebody installs is another step away from air pollution, global warming, energy dependence, and high costs. The solar system you install today is a step towards a sustainable future. If you have more questions about solar energy, or are interested in more details about our products and systems, please visit us at [schuco-usa.com](http://schuco-usa.com)

Our website also has a "Virtual Home" that lets you see how a Schüco solar power system can look on your home. Your Schüco dealer will be happy to tell you more.

We hope you'll go solar. It will benefit you and benefit the planet. Join us in building sustainability.

**Become part of the sustainability solution. Talk to your dealer about a Schüco solar energy system, and visit us online at [schuco-usa.com](http://schuco-usa.com)**



Everybody can  
do something





**Your Partner for Solar and Window Products**

Schüco supplies a range of top-quality, innovative products that enhance the beauty, comfort, security, and energy sustainability of homes:

**Vinyl windows**

**Patio and French doors**

**Storm-resistant windows and doors**

**Solar photovoltaic systems**

**Solar thermal systems**



# Become Part of the Sustainability Solution with Schüco

Turn your home into a producer of clean, renewable solar energy. You'll become part of the solution to global warming. You'll also gain freedom from rising energy costs.

Your certified Schüco dealer is a highly qualified professional who can answer all of your questions about

solar energy, and install a system that perfectly fits your home and lifestyle. Whether you choose photovoltaic, thermal, or both, you'll enjoy dependable renewable energy, lower utility bills, and personal satisfaction for many years to come.

Contact your dealer today.

**Schüco USA L.P.**  
schuco-usa.com

