

TEXAS SOLAR POWER COMPANY

1703 West Koenig Lane, Austin, Texas 78756
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 Web: txspc.com
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Texas Solar Power Company (TXSPC) specializes in the design and installation of renewable energy systems. We provide an alternative, sustainable power source for residential, commercial and government clients. TXSPC offers outstanding service using high quality products delivered at competitive prices.



Photovoltaic (PV) is clean energy from the fuel source that belongs to all of us - the sun.



We carry everything you need for your renewable energy project. TXSPC is an authorized dealer of SolarWorld, Sharp Solar, and Kyocera modules as well as SMA and Fronius products. As technology in the renewable energy industry is dynamic, we are constantly evaluating new products and manufacturers to offer the best package to the environmentally and energy conscious public.



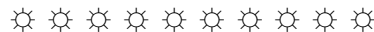
Our services are available around the world—wherever there is a need for photovoltaics.



Sales • Design • Installation

Owners Craig Overmiller, Architect, and Joe Garcia have been in the renewable energy field since 1995 helping home and business owners towards energy independence. The TXSPC team of designers and installers are committed to professional presentation and quality work.

Residential • Commercial



Texas Solar Power Company headquarters is a working example of integrating both a wind turbine as well as a hybrid grid-tie solar system.

- The 1st floor is an SMA Sunny Island grid-tie system with back- up batteries.
- The 3rd floor is an Outback stand-alone system.
- We also have two Air 403 wind generators on the roof for additional power.



Owner is
NABCEP Certified



At Texas Solar Power Company, YOU have the POWER.

SOLAR HOT WATER

Using the sun to heat water is one of the oldest uses of solar energy! Today there are over 42 million systems supplying hot water to homes and businesses around the world.

BENEFITS:

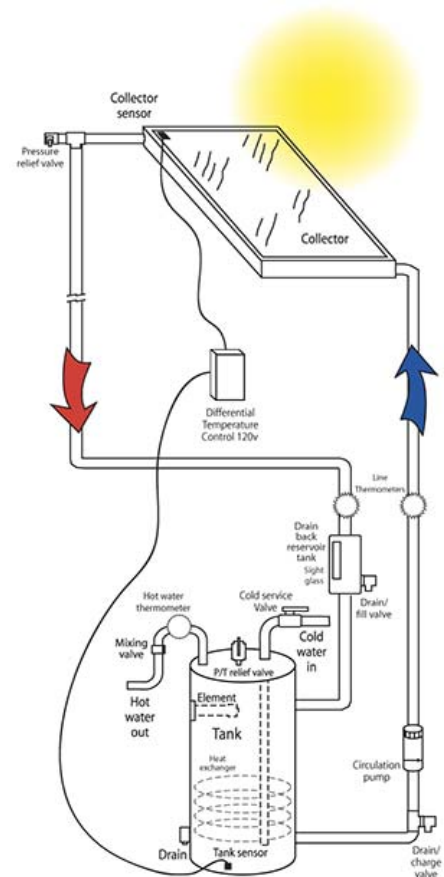
If you have an electric hot water heater, you spend 16%-25% of your household electric bill to heat water. The U.S. Department of Energy estimates that the average household will spend over \$500 a year to heat water with electricity in an 80-gallon tank. Investing in a Solar Hot Water (SHW) system is a smart solar solution for most homeowners:

- It's a proven and reliable technology.
- Offers long-term performance with low maintenance.
- In most cases, harvests more energy at a lower cost than photovoltaics (PV).
- Compared to PV, SHW collectors are more than 3 times as efficient at producing energy from the sun.
- A SHW system can provide most, if not all of your household hot water needs for most of the year.
- Hedge against surging energy prices and geopolitical risk.
- It's good for the environment - no carbon emissions, no pollutants!

HOW IT WORKS:

SHW systems are fully self-automated. Heat is collected whenever it's available. The system turns on and off daily.

- When sunlight heats the roof collector, the pump and controller are automatically activated.
- The pump circulates cold water through the collector, where it is warmed by the sun, and returns the heated water back to the tank.
- The back-up heating element takes over during periods of prolonged cloudy weather or heightened demand, assuring a seamless supply of household hot water every day of the year.
- Typical systems are scaled to meet the needs of a family of four.



BASIC REQUIREMENTS:

Most collectors are mounted on your roof. They are usually parallel to and a few inches above the roof, held on by brackets.

- Require ~64 square feet of roof space and weigh ~200 pounds
- Need to be shade-free from 9am – 3pm every day of the year
- Ideally situated on a Southeast, South, or Southwest facing roof
- At least 15 degree tilt

FINANCIAL INCENTIVES:

REBATES:

In an effort to reduce reliance on power production from fossil fuels and to shave off peak demand, some companies support renewables by offering rebates for Solar Water Heater System installation. Here are several in Texas:

- *Austin Energy*: \$2,000 per system installed for existing homes using electric hot water heaters, and \$1,500 per system installed for new homes. (see www.austinenergy.com for more information)
- *Oncor's "Take A Load Off, Texas"*: \$600-\$1,550 per qualifying installation, based on predicted system performance. (See www.takealoadofftexas.com for more information)
- *Bryan Texas Utilities*: \$1,500 per system installed for existing homes using electric hot water heaters, and \$1,000 per system installed for new homes (see www.BTUtilities.com for more information)
- *CPS Energy in San Antonio*: Up to \$800 per installation. (see www.citypublicservice.com for more information)
- *GVEC Guadalupe Valley Electric Cooperative*: \$1,000 per qualifying installation. (see www.gvec.org for more information)

TAX CREDITS:

The federal government recently extended federal tax credits for renewable energy through December of 2016.

- 30% of total expenditures for a system
- Credit can be used against the alternative minimum tax
- If the federal tax credit exceeds tax liability, the excess amount may be carried forward to the succeeding taxable year.

Please consult with your personal tax accountant to clarify this interpretation for your situation. For reference and full information, see:

Database of State Incentives for Renewable Energy (DSIRE):

http://www.dsireusa.org/library/includes/incentive2.cfm?Incentive_Code=US37F&State=federal¤tpageid=1&ee=1&re=1

The *Energy Star* website is another good resource. It can be found at:

http://www.energystar.gov/index.cfm?c=products.pr_tax_credits



Sample Proposal

Date: February, 2009

1703 W. Koenig Ln. Austin, TX 78756
 Phone: 512-459-9494 Fax: 512-451-5934
 Website: www.txspc.com
 Email: info@txspc.com

Sales Person: Arvin Wallace
 (512) 913 7107
Arvin@txspc.com
Terms: 60 Days

To: Austin Energy Customer

Project: Solar Hot Water
2 Panel - 80 Gallon Rheem

NOTE: This bid includes a new 80 gallon tank. If we retrofit your existing tank, you can subtract \$850 from the total.

Item No	Quantity	Description	Unit Price	Amount
1	1	80 Gallon Custom Solar Tank	\$850.00	\$ 850.00
2	2	4x8 Chrome Collectors	\$860.56	\$ 1,721.12
3	1	Drainback Control Kit(w/pump flange)	\$425.00	\$ 425.00
4	1	Taco Recirculating Pump, 1/2" Sweat	\$111.33	\$ 111.33
5	1	10 Gallon SS Drainback Reservoir With Heat Exchange	\$592.20	\$ 592.20
6	1	Site Glass for Drainback Reservoir	\$46.00	\$ 46.00
7	1	Storage Tank Kit	\$319.52	\$ 319.52
8	1	6 Aluminum Drainback Tank Stand	\$55.10	\$ 55.10
9	1	Roof Kit HE/DB for Single Panel	\$108.97	\$ 108.97
10	5	Permanent Sealer, High Viscosity	\$3.75	\$ 18.75
11	1	Flush Mount Hardware Set	\$28.63	\$ 28.63
12	1	3/4" Sparco Mixing Valve (110°-145°)	\$103.60	\$ 103.60
13	1	Balance of System Parts	\$321.00	\$ 321.00
14	1	New Hot Water Support Frame	\$0.00	\$ -
15				\$ -
16				\$ -

	Subtotal	\$	4,701.22
<i>Products and pricing may vary due to market fluctuation.</i>	Sales Tax	0.0825	\$ 387.85
	Labor		\$ 1,400.00
	Total	\$	6,489.07
	Austin Energy Rebate	\$	2,000.00
	Out of pocket	\$	4,489.07
	30% Federal Income Tax Credit*	\$	1,346.72
	Final Total	\$	3,142.35

*** Be sure to consult with your own tax advisor to determine how the FITC affects your situation.**

If you have any questions concerning this proposal, call:
 Craig Overmiller, Secretary/Treasurer 512-459-9494

I agree to the terms of this proposal . I authorize Texas Solar to schedule the next available TXSPC professional to begin work on my project.

X _____



CHROMAGEN

All-Copper Solar Collectors

COPPER FINNS ULTRASONICALLY WELDED TO COPPER RISERS

CHROMAGEN has fine-tuned the design and manufacture of solar collectors to an art. Collectors are assembled using the highest quality materials and advanced techniques, which result in highly-efficient, durable products you can depend on for years to come.

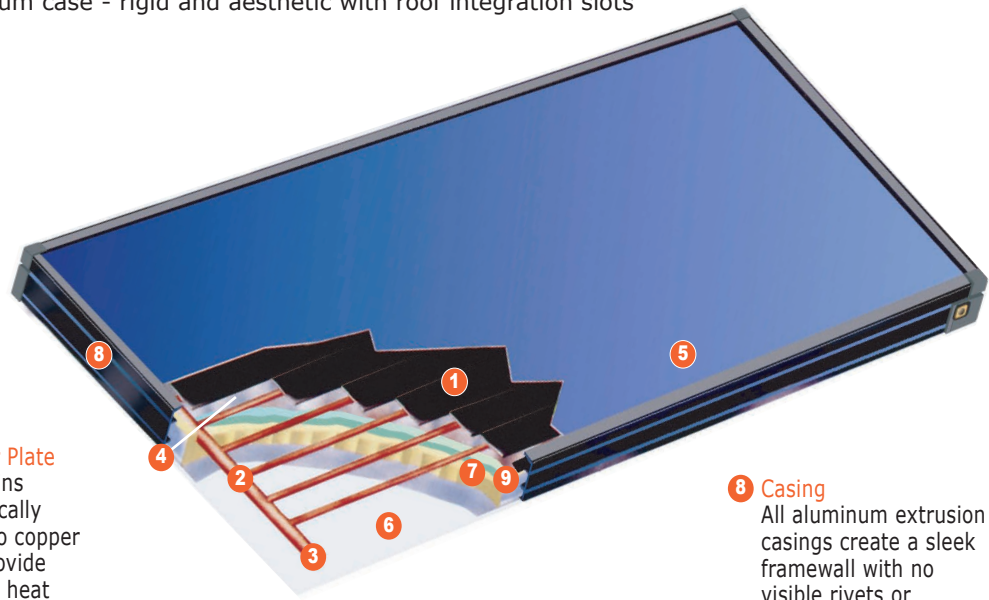
Our products are environmentally friendly, remarkably versatile and offer high performance even in extreme environments. CHROMAGEN panels are suitable for all kinds of hot water systems and provide consistent results under any weather conditions.

Selective coated collector combining all known effective features:

- Best selectivity - high absorption and low emissivity
- No galvanic corrosion
- Ultrasonic welding of copper strips to risers - high fin efficiency
- Aluminum case - rigid and aesthetic with roof integration slots

Solar energy products generate no pollution and cause no damage to the environment.

CHROMAGEN'S product efficiency and quality are regularly tested by Standards Institutes in the EU and worldwide.



1 Absorber Plate
Copper fins ultrasonically welded to copper risers provide excellent heat transfer between the fins and risers. Coated with black chrome on nickel and producing a superior selective surface highly efficient for solar energy use.

2 Tubing Grid
 $\frac{3}{8}$ " copper risers brazed to 1" copper mainfolds with an optimal flow distribution.

3 Piping Connection
Four 1" Type M copper tubes.

4 Aluminum Foil
Attached to the insulation, acts as a barrier against out-gassing.

5 Solar Glass Glazing
A single pane of $\frac{1}{8}$ " thick solar glass is patterned to reduce reflection and tempered to maximize strength and durability.
*Iron oxide content: 0.03%

6 Back Plate
Made of Black Polypropylene sheet.

7 Insulation
 $1\text{-}\frac{3}{16}$ " polyurethane foam cast under and around the side of the absorber plate, retains the heat of the water in the collector. DFC-free P.U. meets U.S. and European standards. A $\frac{3}{4}$ " layer of mineral wool protects the polyurethane and provides additional collector insulation.

8 Casing
All aluminum extrusion casings create a sleek framewall with no visible rivets or screws. A unique extruded profile bolts on an anchors to the roof (shingled, tile, tar) or collector stand.

9 Gaskets
All-around EPDM gasket. Highly resistant to temperature differences and UV radiation. Absorbs the differential expansion of frame and glazing.

Solene
SOLAR HOT WATER SYSTEMS

Specifications



Model	SLCR26	SLCR30	SLCR32	SLCR40
Gross area (sq. ft.)	25.85	30.29	31.98	40.06
Net aperture area (sq. ft.)	23.70	28.07	29.69	37.34
Ratio net/gross area	.91	0.93	0.93	0.93
Length (in.)	86-1/2	86-1/2	97-7/16	121-5/8
Width (in.)	43	50-3/8	47-1/8	47-3/8
Thickness (in.)	3-5/8	3-5/8	3-5/8	3-5/8
Weight (lbs.)	97	110	108	152
Fluid capacity (gall.)	0.9	1.08	1.19	1.32
Recommended flow rate (gpm)	0.7	0.7	0.7	0.7
Test pressure (psi)	300	300	300	300
Operating pressure (psi)	145	145	145	145

Due to ongoing development, specifications are subject to change without notice.

Efficiencies

Ratings	SLCR26	SLCR30	SLCR32	SLCR40
Low temp (95° F)	27,400	32,400	34,300	43,100
Intermediate (122° F)	22,400	26,500	28,000	35,200
High temp (212° F)	4700	5,500	5,800	7,300
Efficiency equation	73.6-95 (Ti-Ta)/I	73.6-95 (Ti-Ta)/I	73.7-94 (Ti-Ta)/I	74.0-95 (Ti-Ta)/I

Ti = Water temperature (T out - T in)/2 F°

Ta = Ambient temperature F°

I = Solar radiation Btu/hr/ft²

Efficiency ratings as measured by the Florida Solar Energy Center (FSEC).



OG-100 Collector approved
OG-300 System approved



Authorized Dealer:



SOLENE USA
927 Fern Street, Suite 1500
Altamonte Springs, FL 32701
Toll Free 1-866-902-0060
www.solene-usa.com



1703 W. Koenig Lane

Austin, TX 78756

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WARRANTIES

Solar Panels
25 Year Prorated Warranty

Charge Controller
2 Year Limited Warranty

Inverter
10 Year Limited Warranty

Batteries
As per Manufacturer

Solar Hot Water
5 Year Limited Warranty

Installation
5 Year Unlimited Labor and Material

If for any reason any equipment fails during this five year period Texas Solar Power Company will replace or repair at no cost to the customer. This warranty is transferable in the event of sale of home or office.

Texas Solar Power Company will extend all manufacturer warranties for a period of ten years from the date of system installation (excluding batteries and charge controllers).

EMERGENCY PHONE NUMBERS

Office Address: 1703 West Koenig Lane
Austin, Texas 78756

Office Hours:
Monday through Friday 9:00 a.m. to 6:00 p.m.

Office Phone: 512-459-9494
Fax: 512-451-5934
Toll Free: 866-459-9494

Craig Overmiller
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Email: craig@txspc.com

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Email: joe@txspc.com

Solar Thermal References:

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Will Owens

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Gary Grossenbacher

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Austin, TX 78746
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Gary Zygmunt

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512-916-8700

Michael Josephs

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Austin, TX 78746
512-801-5764

Larry Gilg

3908 Avenue G
Austin, TX 78751
512-452-0077





Solar PV Rebate Program

Renewable Energy Credit Assignment Agreement

Ref.# _____

The City of Austin, d/b/a Austin Energy (“Austin Energy”), committed by City Council to support renewable energy, is a voluntary participant in the State’s goal to have a total, cumulative installed generating capacity in Texas from renewable energy resources of at least 5,000 megawatts by 2015.

Under the State’s renewable energy goals program, a Renewable Energy Credit (REC) represents the environmental attributes of one thousand kilowatt hours (kWh) of electricity produced by a renewable resource (such as solar or wind). A REC is a commodity awarded to the generator of each one thousand kWh of renewable energy produced in the state. RECs are used by electric providers in Texas to account for their participation in the State’s renewal energy goals program.

RECs will be generated by your solar energy system. For example, a three (3) kW residential solar system generally produces about 4,500 kWh of renewable energy annually (for an optimal installation), creating approximately 4.5 RECs. RECs have a monetary value on the open market, which fluctuates with the market. RECs can be sold on the open market and transferred. You are being asked to assign the RECs—and any other premiums approved by the Texas Public Utility Commission—generated by your solar system to Austin Energy in order to receive the solar rebate incentive. The RECs will be aggregated with those of other participants in the Solar Rebate Program, and will be used for solar energy programs, to promote the use of solar energy, and to promote Austin Energy’s renewable energy goals.

By signing the REC Assignment Agreement, you are agreeing to assign the RECs generated by your solar system to Austin Energy in consideration for receipt of a rebate.

I _____ (please print) acknowledge that I have read the above explanation and understand by signing this agreement that I agree to assign the RECs generated by my solar system at a meter within Austin Energy’s certificated area to Austin Energy in consideration for any solar rebate incentive provided to me.

Customer Signature

Company Name (if applicable)

Installation Address

Date



1703 West Koenig Lane, Austin, TX 78756
 Ph: 512.459.9494 Fax: 512.451.5934 Email: Info@txspc.com

Residential Solar Tax Credit – Overview*

<i>Incentive Type:</i>	Personal Tax Credit
<i>Eligible Technologies include:</i>	Solar Water Heat, Solar Photovoltaics (i.e. electricity production), Wind
<i>Applicable Sectors:</i>	Residential
<i>Amount:</i>	30%
<i>Maximum Incentive:</i>	Placed in service AFTER 1/1/09: No maximum for solar-electric systems, solar water-heating systems, or wind turbines. Placed in service BEFORE 1/1/09: Maximum for solar-electric and solar water heating, \$2,000. Maximum for wind turbines, \$4,000.
<i>Carryover Provisions:</i>	Excess credit may be carried forward to succeeding tax year.
<i>Eligible System Size:</i>	Not specified
<i>Equipment/Installation Requirements:</i>	Solar water heating property must be certified by SRCC or by comparable entity endorsed by the state in which the system is installed. At least half the energy used to heat the dwelling's water must be from solar in order for the solar water-heating property expenditures to be eligible.
<i>Authority 1:</i>	26 USC § 25D
<i>Date Enacted:</i>	8/8/2005 (subsequently amended)
<i>Effective Date:</i>	1/1/2006
<i>Expiration Date:</i>	12/31/2016
<i>Authority 2:</i>	H.R. 1424 (The Energy Improvement and Extension Act of 2008)
<i>Date Enacted:</i>	10/3/2008
<i>Effective Date:</i>	1/1/2008
<i>Expiration Date:</i>	12/31/2016
<i>Authority 3:</i>	H.R. 1: Div. B, Sec. 1122 (The American Recovery and Reinvestment Act of 2009)
<i>Date Enacted:</i>	2/17/2009
<i>Effective Date:</i>	1/1/2009
<i>Authority 4:</i>	IRS Form 5695 & Instructions: Residential Energy Credits

Summary

Established by the federal *Energy Policy Act of 2005*, the federal tax credit for residential energy property initially applied to solar-electric systems, solar water heating systems and fuel cells. *The Energy Improvement and Extension Act of 2008* (H.R. 1424) extended the tax credit to small wind-energy systems and geothermal heat pumps, effective January 1, 2008. Other key revisions included an eight-year extension of the credit to December 31, 2016, the ability to take the credit against the alternative minimum tax, and the removal of the \$2,000 credit limit for solar-electric systems beginning in 2009. The credit was further enhanced in February 2009 by *The American Recovery and Reinvestment Act of 2009*, which removed the maximum credit amount for all eligible technologies (except fuel cells) placed in service after 2008.

A taxpayer may claim a credit of 30% of qualified expenditures for a system that serves a dwelling unit located in the U.S. used as a residence by the taxpayer. Expenditures with respect to the equipment are treated as made when the installation is completed. If the installation is on a new home, the "placed in service" date is the date of occupancy by the homeowner. Expenditures include labor costs for onsite preparation, assembly, or original system installation and for piping or wiring to interconnect a system to the home. If the federal tax credit exceeds tax liability, the excess amount may be carried forward to the succeeding taxable year. The maximum allowable credit, equipment requirements, and other details vary by technology as outlined below.

Significantly, The American Recovery and Reinvestment Act of 2009 repealed a previous limitation on the use of the credit for eligible projects also supported by "subsidized energy financing." For projects placed in service after December 31, 2008, this limitation no longer applies.

Solar electric property

- **There is *no maximum credit* for systems placed in service after 2008.**
- For systems placed in service before 1/1/2009, the maximum credit is \$2,000.
- Systems must be placed in service from 1/1/2006, through 12/31/ 2016.
- The home served by the system does not have to be the taxpayer's principal residence.

Solar water heating property

- **There is *no maximum credit* for systems placed in service after 2008.**
- For systems placed in service before 1/1/2009, the maximum credit is \$2,000.
- Systems must be placed in service from 1/1/2006, through 12/21/ 2016.
- Equipment must be certified for performance by the Solar Rating Certification Corporation (SRCC) or a comparable entity endorsed by the government of the state in which the property is installed.
- At least half the energy used to heat the dwelling's water must be from solar in order for the solar water-heating property expenditures to be eligible.
- The tax credit does not apply to solar water-heating property for swimming pools or hot tubs.
- The home served by the system does not have to be the taxpayer's principal residence.

Small wind-energy property

- **There is *no maximum credit* for systems placed in service after 2008.**
- For systems placed in service in 2008, the maximum credit is \$500 per half kilowatt, not to exceed \$4,000.
- Systems must be placed in service from 1/1/2008, through 12/21/ 2016
- The home served by the system does not have to be the taxpayer's principal residence.

History

The federal [Energy Policy Act of 2005](#) established a 30% tax credit up to \$2,000 for the purchase and installation of residential solar electric and solar water heating property and a 30% tax credit up to \$500 per 0.5 kilowatt for fuel cells. Initially scheduled to expire at the end of 2007, the tax credits were extended through December 31, 2008, by the [Tax Relief and Health Care Act of 2006](#).

In October 2008, the [Energy Improvement and Extension Act of 2008](#) extended the tax credits once again (until December 31, 2016), and a new tax credit for small wind-energy systems and geothermal heat pump systems was created. In February 2009, *The American Recovery and Reinvestment Act of 2009* removed the maximum credit amount for all eligible technologies (except fuel cells) placed in service after 2008.

***This information is from the Database of State Incentives for Renewable Energy (DSIRE) website:**

http://www.dsireusa.org/library/includes/incentive2.cfm?Incentive_Code=US37F&State=federal¤tpageid=1&ee=1&re=1 This is slightly edited (for brevity) by Texas Solar Power Company. Please refer to the link and consult with your personal tax accountant to see how these credits impact your situation. On the www.dsireusa.org version, you will find hot links to the actual bills and pertinent IRS forms.