

Hill Country Solar Tour

Saturday, Oct. 1, 2011

PEC Welcome and Solar 101 presentation: 10:30 a.m.

Self-guided tour: Noon – 6 p.m.



Welcome to the Hill Country Solar Tour!

We are pleased to help present our first tour of solar installations in Pedernales Electric Cooperative's nearly 8,100-square-mile service territory. This year, the Co-op has experienced an increase in interconnection agreements, solar installations and member interest in self generation.

PEC is dedicated to exploring these renewable resources and emerging technologies. We also are dedicated to educating our members and communities, and the Hill Country Solar Tour serves as an opportunity to meet both goals.

Our tour partner, the Texas Solar Energy Society (TXSES), is an active chapter of the American Solar Energy Society and provides a wealth of renewable knowledge and experience. TXSES's mission is to increase awareness of solar and renewable energy potential, as well as promote the wise use of sustainable and non-polluting resources. TXSES representatives, PEC staff and solar installers will be available to answer questions about PEC interconnection and the benefits of solar technology.

The tour is self-guided, so please feel free to visit any solar location between noon and 6 p.m.

Schedule of events:

10:30 a.m. – Noon

PEC Welcome and
Solar 101 presentation at
PEC Oak Hill Office

Noon – 6 p.m.

Self-guided solar tour
Rain or shine!

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PEC Oak Hill Office 9115 Circle Drive

Solar installation

- Office retrofitted with 3.6 KW photovoltaic system.
- System maintains a rolling production average of about 4,400 kwh per year, representing approximately 2% of the PEC office's consumption.
- Value of the power produced in the past 12 months totals \$528.

Installer:

- Tesla Electric, Inc.
- NABCEP certified, installer is Master Electrician
- 4 years experience

Office size:

Offsets use in PEC Oak Hill office, warehouse and supply yard

Year built:

2007

Directions:

From Hwy 290, turn at light on Circle Drive .5 miles, PEC Oak Hill Office is on the left



Wesley Gallery 27008 Ranch Road 12, Suite A

Solar installation

- 6 KW photovoltaic system supports 4,000-square-foot gallery.
- Prior to solar retrofit, business purchased 1,200 kwh per month; now purchases about 450 kwh of electricity per month.

Installer:

- Lighthouse Solar
- NABCEP certified
- 4.5 years experience

Owners:

Jack and Roberta Duffey

Building size:

4,000 square feet

Year built:

2007

Directions:

From PEC Oak Hill Office, go west on Hwy 290 11.5 miles, (L) on RR 12 for .5 miles, gallery on the left



190 Harris Drive

Solar installation

- Home retrofitted with 1 KW photovoltaic system. Home also features two solar attic fans.
- Homeowner is also system installer; estimates system will reduce electric bill to 250 kwh per month.
- System mounted discreetly on backyard pergola.

Installer:

- Bank on Solar
- Trained with ImagineSolar
- 1 year experience

Owners:

David and Tamara Hernandez

Home size:

2,001 square feet

Year built:

2010

Directions:

From PEC Oak Hill Office, go west on Hwy 290 5 miles, (L) on Belterra Drive 1 mile, (L) on Harris Drive



13430 Trail Driver

Solar installation

- Home built with 6 KW photovoltaic system and geothermal HVAC system.
- On average, home purchases only 340 kwh of power per month.
- Awarded 5 stars from Austin Energy's Green Building program.

Installer:

- Hill Country Ecopower
- NABCEP, IGSHPA, ARCA certified
- 4 years experience

Owners:

Ken and Deborah Stedman

Home size:

2,160 square feet

Year built:

2009

Directions:

From PEC Oak Hill Office, go west on Hwy 290 3 miles, (R) on Fitzhugh Drive 3 miles, (L) on Trail Driver



9717 Peakridge Drive

Solar installation

- New construction with 3.3 KW photovoltaic system, owners plan to expand system yearly to reach 8–10 KW.
- Home designed to utilize solar gain, reduce heat buildup.
- Geothermal heating and cooling system also helps reduce energy costs.
- Home designed by Kimberly Kohlhaas.

Installer:

- Hill Country Ecopower
- NABCEP, IGSHPA, ARCA certified
- 4 years experience

Owners:

Mike and Linda Chiconsky

Home size:

2,390 square feet

Year built:

Under construction

Directions:

From PEC Oak Hill Office, go west on Hwy 290 1 mile, (L) on Ledgestone Terrace, (R) on Peakridge Drive



819 Meadow Oaks Drive

Solar installation

- Home has been retrofitted with a 3 KW photovoltaic system and solar thermal system.
- Features new, energy-efficient HVAC system.
- Cut home's electricity bill almost in half.

Installer:

- Lighthouse Solar
- NABCEP certified
- 4.5 years experience

Owners:

Jack and Roberta Duffey

Home size:

2,200 square feet

Year built:

1992

Directions:

From PEC Oak Hill Office, go west on Hwy 290 13 miles, (R) on CR 320, continue on Meadow Oaks Drive

Steps to interconnect with PEC

Interconnecting with the Co-op's system is simple!

Before installing your power-generation system, visit us online at www.pec.coop/solar to review our full Interconnection Policy and complete an Interconnection Agreement.

The basic steps to interconnect with PEC include:

- Complete an Interconnection Agreement at least 60 days before you start installation.
- Call your local PEC office when you are ready to begin the installation and again when the installation is completed. PEC will then inspect the unit to verify a switch disconnect is in place. This ensures both sources of power, from PEC and the generation equipment, can be de-energized for safety reasons when Co-op crews are at work near the lines.
- PEC will approve your interconnection and update Co-op records to reflect power-generation equipment has been installed.

Helpful online resources

- www.pec.coop/solar
- www.txses.org
- www.ases.org
- www.solartoday.org/solarbasics
- www.dsireusa.org
- www.ongrid.net/payback
- www.nrel.gov/rredc/pvwatts

Definitions

- **Interconnection**

A connection that allows the mutual flow of electricity between a utility's electric system and generation equipment owned by a consumer.

- **Net metering**

Interconnected service uses net metering, which routes power through a single meter that measures the electricity you receive from PEC and subtracts the amount of electricity generated by your equipment. Members receive a credit for any surplus energy generated at the avoided cost.

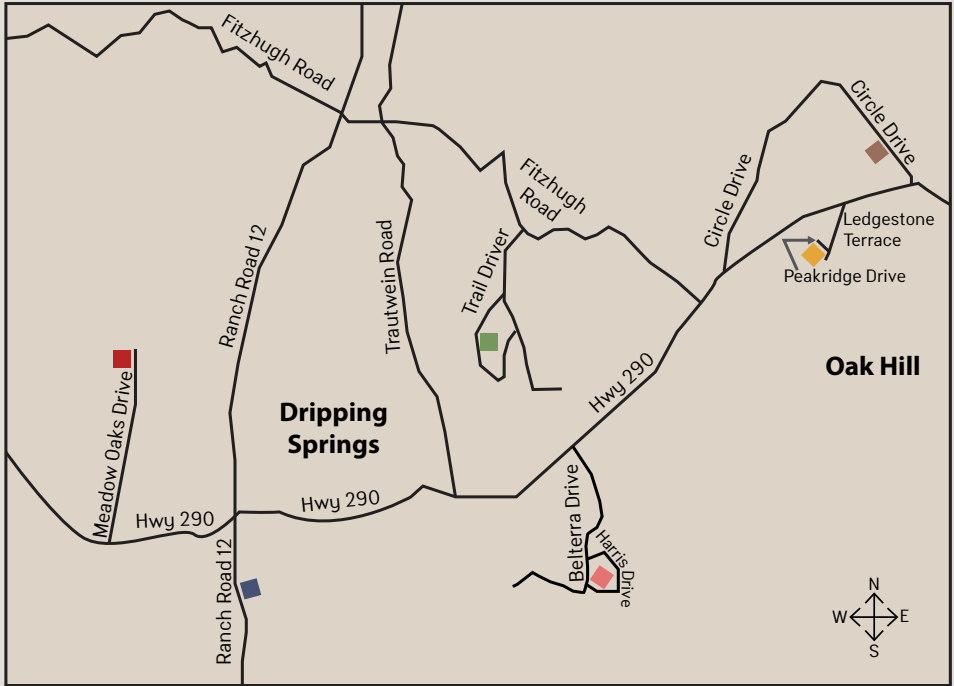
- **Avoided cost**

Avoided cost refers to the expense the Co-op avoids by not purchasing kwh power from our wholesale power suppliers. If you produce surplus electricity, it is noted in your account and appears on your monthly bill as a credit.


Notes


Hill Country Solar Tour locations


Each solar installation is marked for easy reference. Please see inside program for more detailed directions.





Map not to scale



Address: 9115 Circle Drive
LAT: 30° 14' 18.29"N
LONG: 97° 55' 7.04"W


Address: 27008 RR12
LAT: 30° 10' 59.31"N
LONG: 98° 5' 7.11"W


Address: 190 Harris Drive
LAT: 30° 11' 11.19"N
LONG: 97° 58' 56.71"W


Address: 13430 Trail Driver
LAT: 30° 13' 4.24"N
LONG: 98° 0' 28.02"W


Address:
9717 Peakridge Drive
LAT: 30° 13' 31.78"N
LONG: 97° 55' 54.52"W


Address:
819 Meadow Oaks Drive
LAT: 30° 12' 36.18"N
LONG: 98° 6' 32.12"W

