Take A Load Off, Texas Solar PV Program

Customer Information Session

Take A Load Off, Texas™ is provided by Oncor Electric Delivery LLC as part of the company’s commitment to reduce energy consumption and demand. Frontier Associates implements the Take A Load Off, Texas Solar PV Program as an independent contractor.
Agenda

• Oncor
• Take A Load Off, Texas Initiative
  • Energy Efficiency Commitment Programs
  • Solar PV Program
• Why Solar?
• How to Participate
• Installer Eligibility Requirements
• Installation Requirements
• Update
• Questions

www.takealoadofftexas.com
• Texas’s largest regulated electric delivery business and the sixth largest in the U.S.

• Supplies electricity to ≈7.5 million consumers in a service area of more than 400 communities.

• Delivers electricity to one of the nation's highest-growth regions for electricity demand, helping fuel the economy of north Texas and its forecasted long-term annual growth rate of 2%.

• A planned five-year energy efficiency investment of $300 million, will fund aggressive new efforts to reduce electricity use.
Take A Load Off, Texas
Energy Efficiency Commitment Programs

- Targeted Industrial
- Non-Residential Audit
- Solar PV
- LED Lighting
- City Improvement Grants
- Independent School District Grants
- Home Performance with Energy Star
- Solar Water Heating
- Student Education
- Worship Facility Grants
- Not-for-Profit Facility Grants
- Residential Audits

www.takealoadofftexas.com
• Oncor’s Solar PV Program will give Texans an opportunity to gain experience with renewable energy and will help nurture an emerging industry
  – Incentives could offset approximately one fourth to one third of the cost of average installation
  – Average installation costs are $6 to $10 per watt, but WILL VARY from installation to installation
• Eligible incentives to homeowners, businesses, non-profits and governments to install solar photovoltaic panels
  – $2.46 per dc watt; up to a maximum of 10 kW on residential properties and 100 kW for businesses and government
  – Program targets about 1,400 installations over four years
  – Total funding $16 million from Oncor
Why Solar?

- Solar Systems Produce Clean Renewable Energy and Help Save Electricity
  - Solar power helps reduce emissions by running homes, businesses and government buildings on clean energy where possible
    - Average output is 1150-1400 kilowatt hours annually per KW installed
    - A 1 KW solar panel offsets about one month of electricity per year in an average home
  - Solar power saves energy by reducing the amount of electricity consumers need to take from the grid.
  - Consumers support the development of solar power and are looking for affordable ways to help develop the nation’s solar power industry.

www.takealoadofftexass.com
Why Solar?

- Supporting solar power protects the environment, encourages energy independence and creates jobs
  - Good for business and for the economy
  - Will help offset future electricity demand.
    - Oncor’s goal is to reduce future demand growth for electricity by 20 percent in 2009 through energy efficiency programs
    - Oncor’s energy efficiency programs have saved enough energy to run 75,500 homes for one year over the last five years.
Customer Eligibility Requirements

• Anyone who takes power from Oncor lines is eligible for Oncor energy efficiency programs

  • ESI-ID # on your electric bill
How to Participate

- Step 1: Work with a SP to determine eligibility and define technical specs of system

- Step 2: SP completes incentive application and submits technical details of system
  - If accepted, given letter and incentives reserved

- Step 3: SP constructs system and submits final application
  - Some projects will be inspected before disbursing funds
Installer Eligibility Requirements

• General Liability Insurance AND
  
  • Either NABCEP-certified PV Installer or;
  
  • TX Electrical Contractor and will complete 40 hours of PV installation training by June 30, 2009 or;

  • 3 grid-tied PV installations in Texas or;

  • 40 hours of PV installation training
Installation Requirements

- Solar panels, inverters and other major equipment must be new, UL-listed, and meet the latest safety standards.

- Each project must be pre-approved by the Program Manager and must meet Oncor’s requirements for interconnection of distributed generation.

- Every installation must be locally permitted and must pass inspection by the local jurisdiction having authority.

- Systems are required to meet an 80% of optimal design threshold in order to qualify for an incentive.

- Systems must be designed to offset customer consumption.
Program to Date

• Opened Service Providers: December 19, 2008

• Opened Project Applications: February 2, 2009

• Prospective customers should work through registered Service Providers to participate

• Projects will be addressed on a first-come, first-serve basis

For more information, please visit:
http://www.takealoadofftexas.com
Questions?

• Oncor’s TALOT Web site: http://www.takealoadofftexas.com
• Solar PV Program Web site: http://www.txreincentives.com/opv/

Key Contacts:
Steve Wiese
Clean Energy Associates
(512) 323-6629
steve.wiese@cleanenergyassociates.com

Anne Castello
Frontier Associates
(512) 372-8778 x127
acastello@frontierassoc.com
How Solar Works

1. solar panels 2. inverter 3. breaker box 4. home power and appliances 5. meter 6. utility power grid.

www.takealoadofftexas.com
How Solar Works
About Net Metering

• Oncor’s Role
  • Transmission and Distribution Company
  • Offer Meter to Customers to measure In-Flow and Out-Flow of generation

• Retail Electric Provider Role
  • Responsible for billing you for the energy you receive
  • Not required to credit or buy back Out-Flow generation
Average Cost of Solar

Figure 6. Installed Cost Trends over Time, by PV System Size

http://leetd.lbl.gov/ea//ems/re-pubs.html
Lawrence Berkley National Laboratory
The Installed Cost of Photovoltaics, February 2009