



# **Equipment Only – Solar Resources Measurements at the University of Texas at Austin, TX**

**Cooperative Research and Development  
Final Report**

**CRADA Number: CRD-07-222**

NREL Technical Contact: Tom Stoffel

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Efficiency & Renewable Energy, operated by the Alliance for Sustainable Energy, LLC.**

**CRADA Report**  
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## Cooperative Research and Development Final Report

In accordance with Requirements set forth in Article XI.A(3) of the CRADA document, this document is the final CRADA report, including a list of Subject Inventions, to be forwarded to the Office of Science and Technical Information as part of the commitment to the public to demonstrate results of federally funded research.

**CRADA Number:** CRD-07-222

**CRADA Title:** Equipment Only - Solar Resources Measurements at the University of Texas at Austin, TX

**Parties to the Agreement:** University of Texas at Austin

### **Joint Work Statement Funding Table showing DOE commitment:**

<b>Estimated Costs</b>	<b>NREL Shared Resources</b>
Year 1	\$ 00.00
Year 2	\$ 00.00
Year 3	\$ 00.00
TOTALS	\$ 00.00

### **Abstract of CRADA work:**

Site-specific, long-term, continuous, and high-resolution measurements of solar irradiance are important for developing renewable resource data. These data are used for several research and development activities consistent with the NREL mission:

- Establish a national 30-year climatological database of measured solar irradiances
- Provide high quality ground-truth data for satellite remote sensing validation
- Support development of radiative transfer models for estimating solar irradiance from available meteorological observations
- Provide solar resource information needed for technology deployment and operations.

### **Summary of Research Results:**

Faculty and staff at the University of Texas at Austin collected solar resource measurements at their campus using equipment on loan from the National Renewable Energy Laboratory. The equipment was used to train students on the operation and maintenance of solar radiometers and was returned to NREL's Solar Radiation Research Laboratory upon completion of the CRADA. The resulting data augment the solar resource climatology information required for solar resource characterizations in the U.S. The cooperative agreement was also consistent with NREL's goal of developing an educated workforce to advance renewable energy technologies. Additional information is available from the Texas Solar Radiation Database: <http://www.me.utexas.edu/~solarlab/tsrdb/tsrdb.html> and the NREL Renewable Resource Data Center: [http://rredc.nrel.gov/solar/new\\_data/confrrm/](http://rredc.nrel.gov/solar/new_data/confrrm/).

**Subject Inventions Listing:** Not Applicable

**Report Date:** January 10, 2013

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