



Solar Resource Measurements in Canyon, Texas – Equipment Only Loan

**Cooperative Research and
Development Final Report**

CRADA Number: CRD-07-233

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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-07-233

CRADA Title: Solar Resource Measurements in Canyon, TX. Equipment Only Loan

Parties to the Agreement: West Texas A&M University Alternative Energy

Joint Work Statement Funding Table Showing DOE Commitment:

Estimated Costs	NREL Shared Resources
Year 1	\$ 23,372.00
Year 2	\$ 00.00
Year 3	\$ 00.00
TOTALS	\$ 23,372.00

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.

Data acquired under this agreement will be available to the public through [NREL's Measurement & Instrumentation Data Center](#) (MIDC) or the Renewable Resource Data Center (RReDC). The MIDC offers a variety of standard data display, access, and analysis tools designed to address the needs of a wide user audience (e.g., industry, academia, and government interests).

Summary of Research Results:

Solar resource measurements are available from West Texas University A&M for the period of June 1997 through March 2000 using equipment on loan from NREL. As a participant in the U.S. Department of Energy/NREL Cooperative Network for Renewable Resource Measurements (CONFRRM), the measurements from West Texas University A&M are available from the RReDC at http://rredc.nrel.gov/solar/new_data/confirm/cn/. The data interval is five minutes. Solar resource data and time-series plots for this and 15 sites in Texas can be found on the University of Texas Solar Energy Laboratory [Texas Solar Radiation Database](#).

Subject Inventions Listing: Not Applicable

Report Date: June 6, 2014

Responsible Technical Contact at Alliance/NREL: Afshin Andreas

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