



Solar Resource Measurements in Sacramento, California

Cooperative Research and Development Final Report

CRADA Number: CRD-06-205

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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.

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CRADA Title: Solar Resource Measurements in Sacramento, California

Parties to the Agreement: Bergquam Energy

Joint Work Statement Funding Table showing DOE Commitment:

Estimated Costs	NREL Shared Resources
Year 1	\$ 5,265.00
Year 2	\$ 00.00
Year 3	\$ 00.00
TOTALS	\$ 5,265.00

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:

Solar radiation resource measurements from a rotating shadowband radiometer system (RSR) collected by Bergquam Energy beginning in 2006 were never captured by the NREL Measurement & Instrumentation Data Center ([/www.nrel.gov/midc](http://www.nrel.gov/midc)) due to a variety of technical issues. The now obsolete equipment has been abandoned and continues to serve the needs of Bergquam Energy.

Subject Inventions Listing: Not applicable

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