Solar Resource Measurements in Sacramento, California

Cooperative Research and Development Final Report

CRADA Number: CRD-06-205

NREL Technical Contact: Tom Stoffel
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CRADA Number: CRD-06-205

CRADA Title: Solar Resource Measurements in Sacramento, California

Parties to the Agreement: Bergquam Energy

Joint Work Statement Funding Table showing DOE Commitment:

<table>
<thead>
<tr>
<th>Estimated Costs</th>
<th>NREL Shared Resources</th>
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</tr>
<tr>
<td>TOTALS</td>
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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/mide) 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

Report Date: September 6, 2013

Responsible Technical Contact at Alliance/NREL: Tom Stoffel

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