Collaborative Research and Development by EpiSolar and NREL of Processes and Materials for Flexible CdS/CdTe Superstrate Devices

Cooperative Research and Development Final Report

CRADA Number: CRD-14-550

NREL Technical Contact: Teresa Barnes

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In accordance with Requirements set forth in Article X: REPORTS AND PUBLICATIONS A.(2), of the CRADA agreement, 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.

Parties to the Agreement: EpiSolar, Inc.

CRADA Number: CRD-14-550

CRADA Title: Collaborative Research and Development by EpiSolar and NREL of Processes and Materials for Flexible CdS/CdTe Superstrate Devices

Joint Work Statement Funding Table Showing DOE Commitment:

Estimated Costs	NREL Shared Resources
Year 1 Year 2	$ 375,000.00 $375,000.00
TOTAL	$750,000.00

Abstract of CRADA Work:

The objective of this work is to collaborate with EpiSolar to develop and test processes that are consistent with the goals and milestones of an NREL FPace1 (Foundational Program to Advance Cell Efficiency) project entitled "High-Temperature, Roll-to-Roll (RTR) CdTe Superstrate Devices Using Flexible Glass." The primary milestone for this CRADA relates to demonstration of a 15% efficient laboratory device.

Summary of Research Results:

Episolar used NREL deposited transparent conducting oxides and CdS on flexible glass to make CdTe devices on flexible glass. They were able to obtain high device efficiency using these materials.

Subject Inventions Listing:

None

Report Date:

4/11/2016

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