



Development of Optimal CZTS Device Structure

Cooperative Research and Development Final Report

CRADA Number: CRD-12-476

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CRADA Report
NREL/TP-5K00-66886
September 2016

Contract No. DE-AC36-08GO28308

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In accordance with Requirements set forth in Article XI. Reports and Abstracts A.(3), 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: Suntricity Corporation

CRADA Number: CRD-12-476

CRADA Title: Development of Optimal CZTS Device Structure

Joint Work Statement Funding Table Showing DOE Commitment:

Estimated Costs	NREL Shared Resources
TOTAL	\$00.00

Abstract of CRADA Work:

Suntricity Corporation and NREL will develop an optimal CZTS device structure. In this process absorber materials provided by Suntricity Corporation will be used for testing. For this purpose Suntricity Corporation will provide dried film precursors or ink precursors. NREL will process these into PV material and complete cells with buffer, window and contacts.

Summary of Research Results:

In collaborative research effort, ink materials have been deposited and thermally converted to phase pure CZTS. These films have been converted into devices. The ink composition and thermal annealing profile have been optimized.

Subject Inventions Listing:

There were no inventions created during the course of this CRADA.

Report Date:

July 22, 2016

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