



## **DEDALOS NREL**

### **Cooperative Research and Development Final Report**

**CRADA Number: CRD-07-237**

NREL Technical Contact: Daniel Friedman

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## Cooperative Research and Development Final Report

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-07-237

**CRADA Title:** DEDALOS NREL

**Parties to the Agreement:** Abengoa Solar

### **Joint Work Statement Funding Table showing DOE commitment:**

<b>Estimated Costs</b>	<b>NREL Shared Resources</b>
Year 1	\$ 00.00
Year 2	\$ 00.00
Year 3	\$ 00.00
TOTALS	\$ 00.00

### **Abstract of CRADA work:**

Currently High Concentration Photovoltaic (HCPV) terrestrial modules are based on the combination of optic elements that concentrate the sunlight into much smaller GaAs space cells to produce electricity.

GaAs cell technology has been well developed for space applications during the last two decades, but the use of GaAs cells under concentrated sunlight in terrestrial applications leaves unanswered questions about performance, durability and reliability.

The work to be performed under this CRADA will set the basis for the design of high-performance, durable and reliable HCPV terrestrial modules that will bring down electricity production costs in the next five years.

### **Summary of Research Results:**

An analysis of the energy yield of solar cells as a function of the cell design was performed. Results were captured in a detailed report which was provided to Abengoa.

**Subject Inventions Listing:** n/a

**Report Date:** 4/4/13

**Responsible Technical Contact at Alliance/NREL:** Daniel Friedman

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