



# Thin Film Materials and Processing Techniques for a Next Generation Photovoltaic Device

**Cooperative Research and Development  
Final Report**

**CRADA Number: CRD-12-470**

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**Cooperative Research and Development Final Report**

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**CRADA Number:** CRD-12-470

**CRADA Title:** Thin Film Materials and Processing Techniques for a Next Generation Photovoltaic Device

**Parties to the Agreement:** Sunshine Bottling Co.

**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
<b>TOTALS</b>	<b>\$ 00.00</b>

**Abstract of CRADA work:**

This research extends thin film materials and processes relevant to the development and production of a next generation photovoltaic device.

**Summary of Research Results:**

Several solution routes to low cost photovoltaic absorber materials have been explored. These routes include different ink chemistries as well as deposition and processing methods. The thin film absorber materials have been integrated into photovoltaic devices.

**Subject Inventions Listing:** N/A

**Report Date:** 6/28/13

**Responsible Technical Contact at Alliance/NREL:** Maikel van Hest

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