



Metallization for Self Aligned Technology

Cooperative Research and Development
Final Report

CRADA Number: CRD-08-295

NREL Technical Contact: David Ginley

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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-08-295

CRADA Title: Metallization for Self Aligned Technology

Parties to the Agreement: 1366 Technologies

Joint Work Statement Funding Table showing DOE commitment:

Estimated Costs	NREL Shared Resources
Year 1	\$ 20,000.00
Year 2	\$ 00.00
Year 3	\$ 00.00
TOTALS	\$ 20,000.00

Abstract of CRADA work:

In this CRADA NREL will modify/develop metallization inks that are compatible with 1366 Technologies technology. Various methods of deposition will be used to apply the inks to the textured silicon substrates. The goal of the project is to minimize the contact resistance while maximizing the cell efficiency.

Summary of Research Results:

NRELs metallization inks were modified to give optimal performance on 1366 Technologies substrates. This has resulted in functional devices with low contact resistance and good efficiency. The research also has resulted in inks that can be deposited using alternative atmospheric depositions tools, aside from inkjet printing and ultrasonic spraying.

Subject Inventions listing: None

Report Date: 1/25/12 Responsible Technical Contact at Alliance/NREL: David Ginley

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