

# Continuous, Automated Manufacturing of String Ribbon Si Pv Modules: Second Annual Report



Continuous, Automated  
Manufacturing of String Ribbon Si  
PV Modules: Second Annual Report

National Renewable Energy  
Laboratory (NREL)

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## Reviews

*It in a single of the best book. This is for those who statte there had not been a well worth reading through. Once you begin to read the book, it is extremely difficult to leave it before concluding.*  
*(Dr. Barney Robel Jr.)*

## CONTINUOUS, AUTOMATED MANUFACTURING OF STRING RIBBON SI PV MODULES: SECOND ANNUAL REPORT

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Bibliogov, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This report describes the activities in manufacturing technology and in silicon ribbon characterization that were completed in the second year of a three-year PVMaT subcontract. The focus in this second year has been on capital cost reduction and automation in silicon ribbon growth, automation and process simplification in the cell area, and some automation in the module area. Evergreen has used the capabilities of the Fraunhofer USA Center for Manufacturing Innovation at Boston University for help in factory layout, process flow, and efficient materials flow. Evergreen will be utilizing this as it prepares to move to a multi-megawatt factory in the latter part of 2000. Silicon ribbon characterization work has been provided for us by researchers at NREL. A patent has already been filed on this work, and two more are in preparation. Four papers on different aspects of the work have been or will be presented at various conferences here and abroad. In general, as this report shows, the project is on schedule and the overall goals are being met.

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