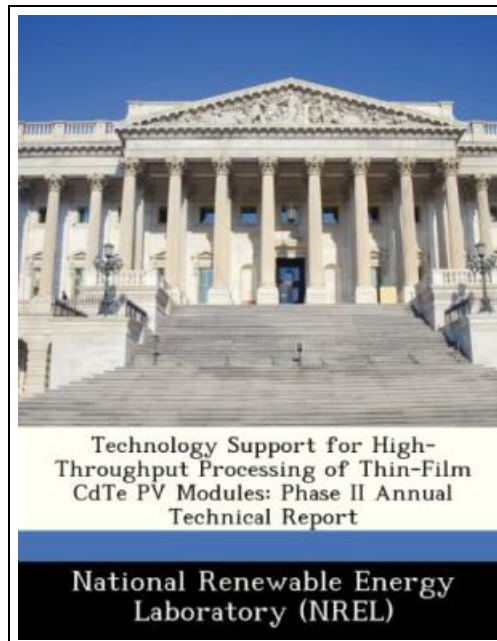


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(Lea Legros V)

TECHNOLOGY SUPPORT FOR HIGH-THROUGHPUT PROCESSING OF THIN-FILM CDTE PV MODULES: PHASE II ANNUAL TECHNICAL 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 *****.Results and conclusions from Phase II of a three-year subcontract are presented. The subcontract, entitled Technology Support for High-Throughput Processing of Thin-Film CdTe PV Modules, is First Solar s portion of the Thin-Film Photovoltaic Partnership Program. The research effort of this subcontract is divided into four areas of effort: 1) process and equipment development, 2) efficiency improvement, 3) characterization and analysis, and 4) environmental, health, and safety. As part of the process and equipment development effort, a new semiconductor deposition system with a throughput of 3 m²/min was completed, and a production line in a new 75,000 ft² facility was started and is near completion. As part of the efficiency-improvement task, research was done on cells and modules with thin CdS and buffer layers as way to increase photocurrent with no loss in the other photovoltaic characteristics. A number of activities were part of the characterization and analysis task, including developing a new admittance spectroscopy system, with a range of 0.001 Hz to 100 kHz, to characterize cells. As part of the environmental, health, and safety task, the methanol-based CdCl₂ process was replaced with aqueous-CdCl₂. This change enabled the retention of a De Minimus level of emissions for the manufacturing plant, so no permitting is required.

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