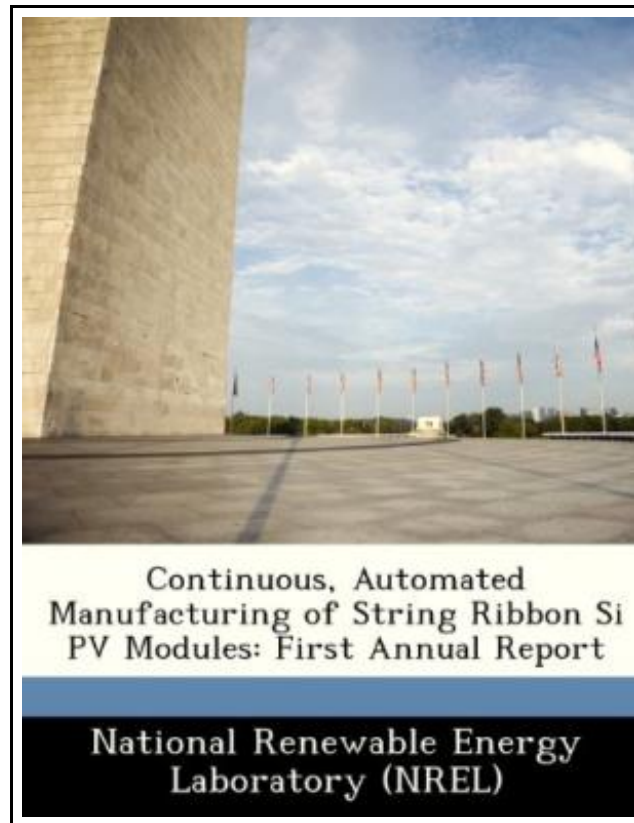


# Continuous, Automated Manufacturing of String Ribbon Si Pv Modules: First Annual Report



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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 first year of a 3-year PVMaT Phase 5A2 program. Evergreen Solar will soon be expanding into a multi-megawatt facility and the PVMaT work will be used to further the objective of a high-throughput automated production line in every aspect of PV module making from producing silicon ribbon to making a finished module. The project has four task areas for this first year: crystal growth; cell manufacturing; modules; and factory layout and automation. The vast majority of the work this first year has been in the crystal growth and cell manufacturing areas. Evergreen Solar has its own unique technology in each of these areas. In crystal growth, a key goal of this PVMaT project has been developing and deploying an improved string material. The high-temperature string materials are used to stabilize the edges of the growing silicon ribbon in our String Ribbon silicon sheet growth. The result has been one of the major successes of this first year. Significant cost reductions and yield improvements have emerged from this improved string material. In addition, some of the groundwork for automation of the String Ribbon crystal growth process has been laid and shows much promise. A method for controlling the edge meniscus height was developed, and a patent has been filed based on this discovery. In the cell manufacturing area, the focus has been on reducing the number of processing steps and on design and construction of high-speed processing equipment. The possibility of eliminating all pre-diffusion etching and going directly from growth to diffusion has been demonstrated on an RandD scale. Unique designs for high-speed drying equipment and for a high-speed contact and AR-coating application machine have...



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