Market-Driven Efg Modules: Final Report (Paperback)

By National Renewable Energy Laboratory (NREL)

Bibliogov, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This report describes the progress made in the 3-year program at ASE Americas, Inc., in the Photovoltaic Manufacturing Technology 4A2 Initiative on developing Edge-Defined Film-Fed Growth (EFG) silicon wafer technology. The work performed under this subcontract focused on advancing EFG manufacturing technology and lowering production costs in three areas: 1) EFG wafers - through better silicon feedstock utilization, ASE realized improvements in growth, a wafer thickness reduction from 300 to 250 microns, and a higher bulk wafer electronic quality; additionally, new technology for the laser cutting of wafers was demonstrated; 2) Solar cells - by an increase in solar cell efficiency and by implementing a new glass-etch process; 3) Modules - by lamination cycle improvements, introducing a new diode housing, and simplifying module construction.; The program will exceed its overall goal of reducing EFG module manufacturing costs by 25 percent. About 17 percent of these improvements are already implemented in manufacturing. Technology to achieve an additional cost savings of 11 is in the final stages of introduction into large-scale manufacturing.

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