

Thin-Film Photovoltaic Partnership. Apollo Thin Film Process Development: Phase I Technical Report



Thin-Film Photovoltaic Partnership.
Apollo Thin Film Process
Development: Phase I Technical Report

National Renewable Energy
Laboratory (NREL)

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Reviews

*This publication is definitely not simple to begin on studying but quite fun to see. It really is full of knowledge and wisdom I am just effortlessly can get a satisfaction of studying a created pdf.
(Alfreda Bradtke)*

THIN-FILM PHOTOVOLTAIC PARTNERSHIP. APOLLO THIN FILM PROCESS DEVELOPMENT: PHASE I 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 *****.The objective of this Phase 1 subcontract was to establish an efficient production plating system capable of depositing thin-film CdTe and CdS on substrates up to 0.55 m². This baseline would then be used to build on and extend deposition areas to 0.94 m² in the next two phases. The following achievements have been demonstrated: a) Chemical-bath deposition of CdS and electrochemical deposition of CdTe was demonstrated on 0.55 m² substrates. The films were characterized using optical and electrical techniques, to increase the understanding of the materials and aid in loss analysis; b) A stand-alone, prototype CdTe reaction tank was built and commissioned, allowing the BP Solar team to perform full-scale trials as part of this subcontract; c) BP Solar installed two outdoor systems for reliability and performance testing; d) The 2-kW, ground-mounted, grid-connected system contains seventy-two 0.43-m² Apollo? module interconnects; e) Two modules have been supplied to NREL for evaluation on their Performance and Energy Rating Test bed (PERT) for kWh evaluation; and f) BP Solar further characterized the process waste stream with the aim to close-loop the system. Currently, various pieces of equipment are being investigated for suitability of particle and total organic compound removal.



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