1. Record Nr. UNINA9910957547603321

Titolo	The future of photovoltaics manufacturing in the United States : summary of two symposia / / National Research Council of the National Academies
Pubbl/distr/stampa	Washington, D.C., : National Academies Press, 2011
ISBN	9786613278685 9780309224857 0309224853 9781283278683 1283278685 9780309142151 0309142156
Edizione	[1st ed.]
Descrizione fisica	1 online resource (290 p.)
Altri autori (Persone)	WessnerCharles W
Disciplina	621.31244
Soggetti	Photovoltaic power generation - Technological innovations - United States Photovoltaic power systems - Technological innovations - United States Building-integrated photovoltaic systems - Research - United States Solar energy industries - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Charles W. Wessner, rapporteur ; Committee on Competing in the 21st Century: Best Practice in State and Regional Innovation Initiatives ; Board on Science, Technology, and Economic Policy, Policy and Global Affairs."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""Front Matter""; ""Contents""; ""Preface""; ""I: OVERVIEW""; ""Overview: Partnering for Photo voltaics Manufacturing in the United States""; ""II: PROCEEDINGS--APRIL 23, 2009, SYMPOSIUM: THE FUTURE OF PHOTO VOLTAICS MANUFACTURING IN THE UNITED STATES""; ""Welcome--Charles Wessner""; ""Introduction--Clark McFadden""; ""Opening Remarks--John Lushetsky""; ""Panel I: Opportunities and Challenges Facing PV Manufacturing in the United States""; ""Panel II: Opportunities and Challenges Facing PV Manufacturing in the United States: Large Companies' Perspective""

""Panel III: National and International Consortia: Lessons and Best Practices""""Panel IV: Economics of Photovoltaics in the United States""; ""Luncheon Remarks: Transforming the Glass City into the Solar City: Toledo's Tradition of Innovation and Entrepreneurship--Congresswoman Marcy Kaptur ""; ""Panel V: Next Generation: The Flex Display Opportunity""; ""Panel VI: Roundtable Discussion-Key Issues and Next Steps Forward""; ""III: PROCEEDINGS--JULY 29, 2009, SYMPOSIUM: STATE AND REGIONAL INNOVATION INITIATIVES-PARTNERING FOR PHOTOVOLTAICS MANUFACTURING IN THE UNITED STATES""
""Welcome--Charles Wessner""""""Introduction--Clark McFadden""; ""Opening Remarks--Senator Mark Udall""; ""Panel I: Partnering for Photovoltaic Technologies""; ""Panel II: Advancing Solar Technologies: The Department of Energy""; ""Panel III: Facilitating Solar Innovation: Contributions from Other Federal Agencies""; ""Panel IV: Advances in Photovoltaic Manufacturing: Intermediating Institutions""; ""Panel V: Building a Solar PV Roadmap""; ""Roundtable: Next Steps for Government-Industry Collaboration in Photovoltaic Technologies""; ""IV: APPENDIXES""
""Appendix A: April 23, 2009, Symposium: The Future of Photovoltaics Manufacturing in the United States: Biographies of Speakers""""""Participants List""; ""Appendix B: July 29, 2009, Symposium: State and Regional Innovation Initiatives-Partnering for Photovoltaics Manufacturing in the United States: Biographies of Speakers""; ""Participants List""; ""Appendix C: Bibliography""

Sommario/riassunto

Technological innovation and growth are critical to U.S. competitiveness in a global economy. One means of facilitating growth and improving competitiveness is to foster more robust innovation ecosystems through the development of public-private partnerships, industry consortia, and other regional and national economic development initiatives. Public-private partnerships, in particular, catalyze the commercialization of state and national investments in research and development. One of the major projects of the National Research Council's Board on Science Technology and Economic Policy (STEP) is to examine state and local investment programs designed to attract and grow knowledge-based industries. STEP analyzes state and regional innovation initiatives to gain a better understanding of the challenges associated with the transition of research into products, the practices associated with successful state and regional programs, and their interaction with federal programs and private initiatives. In April and July 2009, STEP convened two meeting to assess the future of the U.S. photovoltaic industry and the practical steps that the federal government and some state and regional governments are taking to develop the capacity to manufacture photovoltaics competitively. The Future of Photovoltaic Manufacturing in the United States captures the presentations and discussions of these meetings. This report explores the prospects for cooperative R&D efforts, standards, and roadmapping efforts that could accelerate innovation and growth of a U.S. photovoltaics industry. It includes both efforts to strengthen existing industries as well as specific new technology focus areas such as nanotechnology, stem cells, and energy in order to gain an improved understanding of program goals, challenges, and accomplishments.