

Solar energy research and development india

SERIIUS--the Solar Energy Research Institute for India and the United States--was a five-year program initiated in 2012 and completed in 2017. SERIIUS was co-led by the Indian Institute of Science (IISc)--Bangalore, India, and the National Renewable Energy Laboratory (NREL), Golden, Colorado, USA. See the list of India and U.S. partners and an illustration of the SERIIUS organizational and management structure. The remainder of this website remains intact without updating since 2017.

For a recap of the completed program, see the book *Solar Energy Research Institute for India and the United States (SERIIUS): Lessons and Results from a Binational Consortium*, edited by David Ginley and Kamalio Chattopadhyay.

Through an environment of cooperation and innovation "without borders," SERIIUS will develop and ready emerging and revolutionary solar electricity technologies--toward the long-term success of India's Jawaharlal Nehru National Solar Energy Mission and the U.S. Department of Energy's SunShot Initiative.

SERIIUS will accelerate the development of solar electric technologies by lowering the cost per watt of photovoltaics (PV) and concentrated solar power (CSP). The six key SERIIUS objectives are the following:

Check the SERIIUS Web Gateway for various capabilities available through SERIIUS' central communications tool.

Feb 26, 2017. "Science Monitor" is a weekly roundup of science and technology developments aired by Rajya Sabha TV. In a 4.5-minute video segment, Profs. Pradeep Dutta and Pramod Kumar explain work by their team at IISc-Bangalore on a lab-scale supercritical carbon dioxide Brayton cycle power plant.

Institutional subscriptions

This book describes the development, functioning, and results of a successful binational program to promote significant scientific advances in Earth-abundant photovoltaics (PV) and concentrated solar power (CSP), advanced process/manufacturing technologies, multiscale modeling and reliability testing, and analysis of integrated solar energy systems.

SERIIUS is a consortium between India and the United States dedicated to developing new solar technologies and assessing their potential impact in the two countries. The consortium consists of nearly 50 institutions including academia, national laboratories, and industry, with the goal of developing significant new technologies in all areas of solar deployment. In addition, the program focused on workforce development through graduate students, post-doctoral students, and an international exchange program. Particular emphasis



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was placed on the following efforts:

The book summarizes the general lessons learned from these experiences.

Book Title: Solar Energy Research Institute for India and the United States (SERIUS)

Book Subtitle: Lessons and Results from a Binational Consortium

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