

Press Release



New Energy and Industrial Technology
Development Organization

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Demonstration Project for Large-scale PV Power Generation System in India –Japan-India Joint Implementation Project–

The New Energy and Industrial Technology Development Organization of Japan (“NEDO”), the Ministry of Finance, the Ministry of New and Renewable Energy of India (“MNRE”) and the Delhi Mumbai Industrial Corridor Development Corporation Limited (“DMICDC”) have agreed to carry out The Model Project for a Microgrid System Using Large-scale PV Power Generation and Related Technologies at Neemrana industrial park in Rajasthan, and concluded a Memorandum of Understanding (“MOU”) for the model project on April 30, 2012.

The Japanese and Indian governments have agreed to mutually cooperate in the development of the Delhi Mumbai Industrial Corridor (“DMIC”) region and the project will be the first technology demonstration project to be carried out in the DMIC region. The demonstration project is designed to improve the reliability of unstable energy systems by providing a renewable energy supply and establishing a microgrid system using large-scale PV power generation and related technologies.

The MOU was announced by NEDO during the 2nd Ministerial India-Japan Public Private Policy Dialogue held in New Delhi and signed by NEDO Chairman Kazuo Furukawa and Mr. Amitabh Kant, CEO and MD of DMICDC, in the presence of Mr. Yukio Edano, Minister of Economy, Trade and Industry of Japan, and Mr. Anand Sharma, Minister of Commerce & Industry of India.

1. Project Overview

India is facing significant power shortages due to its economic development, and demand for power in 2030 is anticipated to be three times higher than demand in 2005. The Government of India announced in late 2009, the Jawaharlal Nehru National Solar Mission, a major initiative to promote the introduction of renewable energy and address India’s energy security challenges. Under this mission, an effective policy framework will be adopted for introducing 20 GW of solar power by 2022, which is expected to create a

large-scale solar power market in the coming decade. At the same time, there is an increasing need among companies operating in Indian industrial parks for reliable power supplies to ensure stable operations.

Against this backdrop, the objective of this demonstration project is to provide companies in Neemrana industrial park and power grids with a clean and stable power supply by installing a 6 MW PV power generation system as well as establishing a microgrid system, which combines the PV power generation system and multiple diesel generators. This project also aims to promote the dissemination of Japanese microgrid technologies throughout India by demonstrating the effectiveness of such technologies.

The project, which has been designated as a special program under the solar energy diffusion policy developed by MNRE, will be implemented with ongoing support from both governments.

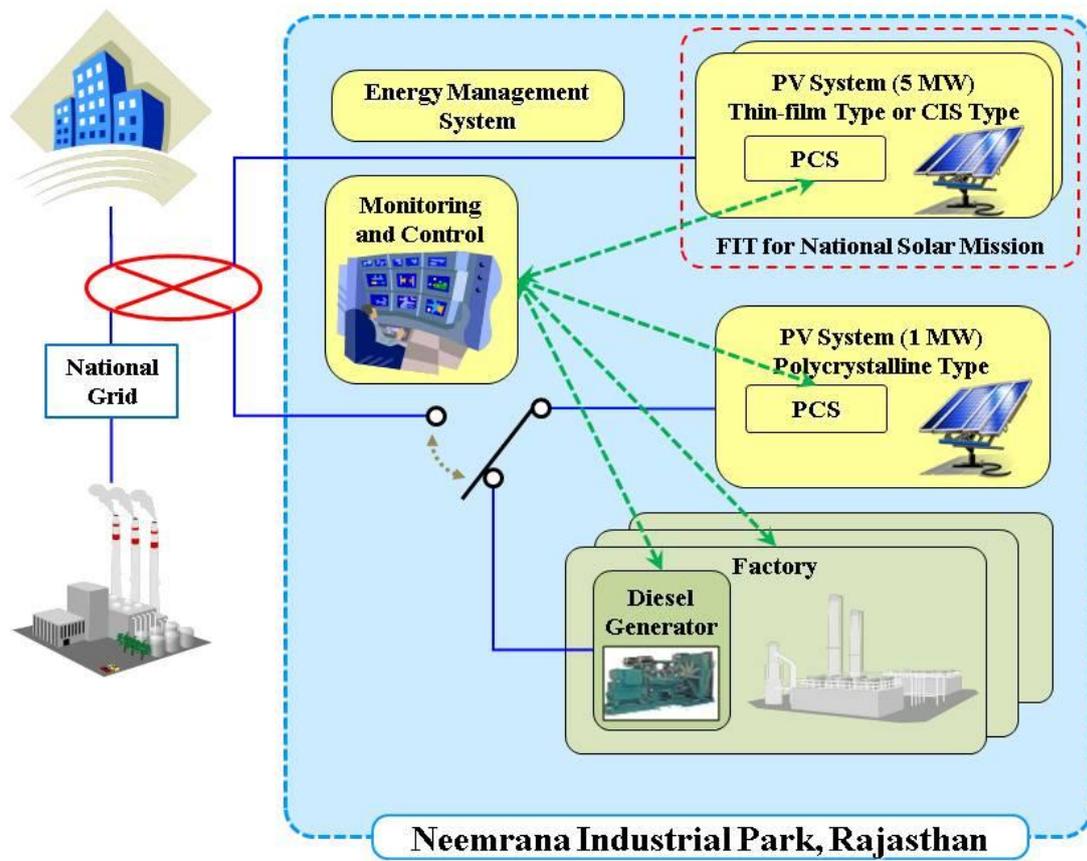
Project period (tentative): FY2012 - FY2014

Project budget: approximately 4.1 billion yen (NEDO portion: approximately 2.8 billion yen)

Project participants: Hitachi, Ltd., Itochu Corporation, Hitachi Plant Technologies, Ltd., Hitachi Systems, Ltd.

Benefits to be demonstrated:

- (1) Technological and economical effectiveness of providing a clean, stable and cost-efficient electricity supply
- (2) Energy-efficiency of microgrid control technologies
- (3) Effectiveness of Japan's latest solar panels



Illustrated overview of model project in Neemrana industrial park, Rajasthan

2. Future Outlook

The construction work for this project is expected to take about 18 months and is scheduled to be completed in late FY2013. A demonstration operation of the system will be carried out until the beginning of FY2014. In addition to the evaluation and verification of data collected during the demonstration phase, this project aims to promote the dissemination of Japanese technologies used in the system throughout India, especially in industrial parks located along the DMIC region, through promotional seminars and other activities.

3. Contact Persons

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