

# India Solar Power Sector Analysis

<https://marketpublishers.com/r/I495A587DB7EN.html>

Date: November 2012

Pages: 147

Price: US\$ 800.00 (Single User License)

ID: I495A587DB7EN

## Abstracts

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India is emerging as one of the leading solar PV markets in the world as the country is blessed with immense potential for solar energy as most of the states have more than 300 sunny days and the specific average annual solar energy yield in India is estimated between 1700 – 1900 kWh per kWp. Indian Solar power has the potential to generate 50,000 MW which would be enough to meet over 5% of power requirement by 2022.

Solar power has emerged as one of the key renewable sources and presents an exciting opportunity for India. In past few years, the solar PV industry has experienced substantial growth primarily driven by favourable policies of central and state governments to support its development. The Gujarat State Solar Policy and the Centre's Jawaharlal Nehru National Solar Mission (JNNSM) are at the forefront of solar power development in India. As a result, power generation capacities from solar have increased from 20 MW in FY'2011 to nearly 940 MW in FY'2012 and by June 2012 it crossed 1 GW. Most of the installed capacity over 600 MW comes from Gujarat.

States like Tamil Nadu, Andhra Pradesh, Punjab, Jharkhand, Karnataka and Maharashtra are emerging as more prominent future PV installation destination for developers and installers. These states have taken positive steps and introduced their own solar programmes as well as FITs, or are expected to announce their solar ambitions in the course of this year to exploit their solar potential.

Along with grid connected solar PV installation, Indian PV market represent huge potential for off-grid application too. The JNNSM programme targets off-grid electrification about 200 MW expected by 2013, 1 GW by 2017 and a cumulative installation over 2 GW until 2022. This exhibits huge potential market for off-grid, stand along and hybrid systems. This market segment that is quite specific to emerging

markets could kick-off PV installations faster than expected.

'India Solar Power Sector Analysis' research report gives comprehensive insight on following aspects related to solar power sector in India:

Current Sector Trends

Grid & Off Grid Capacity Installations

Operating & upcoming solar Power Projects

Development of Decentralize Solar Power generation

Solar PV Manufacturing & Value Chain Analysis

Solar Cities Development Plan

Jawaharlal Nehru National Solar Mission

Policy Initiatives by Central & state Government

Financial Incentives & Schemes

Institutional Support Framework

Key Companies Business Profile

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