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# PHOTOVOLTAIC POWER PLANTS

CREATION AND FINANCING  
IN INDIA ON A TURNKEY BASIS





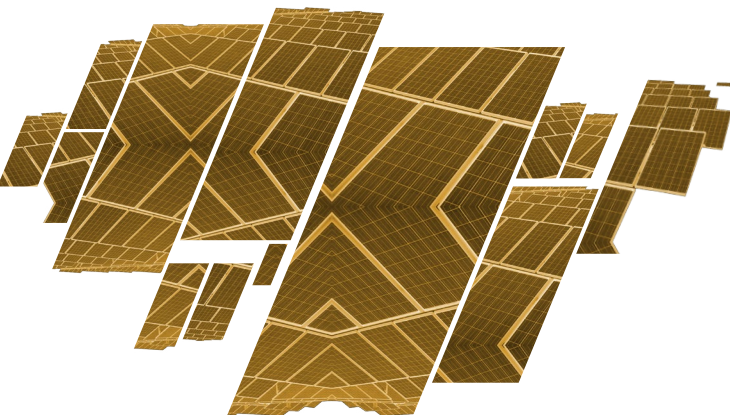
# PHOTOVOLTAIC POWER PLANTS

## CREATION AND FINANCING IN INDIA ON A TURNKEY BASIS

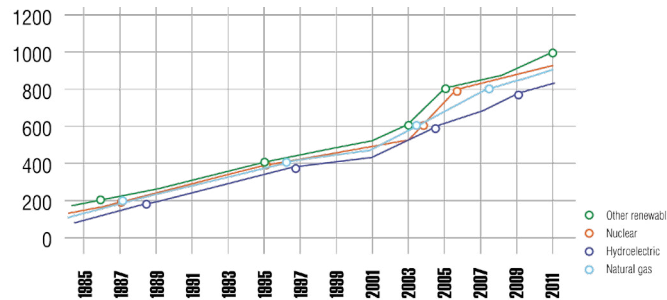
Misal Srl is a dynamic consulting company with two offices, one in Brescia, Italy and one in Gurgaon (Delhi), India.

The Misal Renewable Energies project, thanks to a synergy with its own trained staff in India and technical partners with long-term experience in the renewable energies field has the goal of **organizing and handling single or group investments to create photovoltaic power plants in India on a turnkey basis** with the development of the following activities:

- Realization of a business plan with investments and revenues.
- Identification and finalization of the area on Indian soil where the photovoltaic plant will be created.
- Sizing, design and feasibility study.
- Turnkey installation.
- Filling in all the paperwork with local authorities to obtain available public grants.
- Administrative and fiscal support in India.
- Support and maintenance of the production plant.

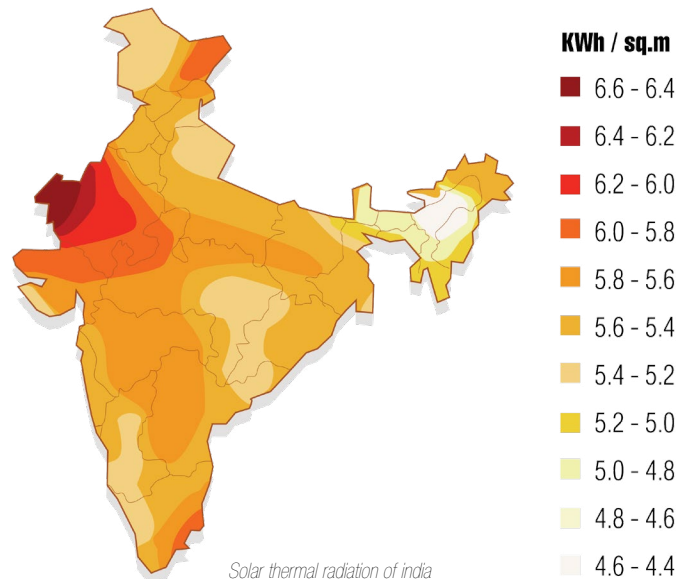


Production of electrical energy per type (TWh)



### The Indian energy system and its future outlook.

India, with a population of 1.210.000.000, is the second most populated country in the world after China and counts for 17% of the world population. In 2011 has been the third country in the world, after United States and China, for its GDP with yearly growth rates in the last ten years of 8-10%. The combination of these two factors, population and GDP, makes India the fourth country in the world for energy consumption. An elevated economic growth rate calls for an ever increasing need for electrical power which is due to grow considerably. The energy produced in **India has increased on an average of 7% in the past 25 years** which exceeded 1.000 TWh in 2011.



Solar thermal radiation of India

For all these reasons, renewable energies and specifically the photovoltaic one can play a key role in satisfying the growing need for energy since vast areas of the country have some of the greatest thermal solar radiation exposure in the world: the hourly solar thermal radiation is about 200 MW/km<sup>2</sup> for an average of 300 days a year.



According to the MNRE, (Ministry of New and Renewable Energy), in June 2010 India has reached over 17,5 GW of installed capacity for renewable energies while the photovoltaic has touched 15 MW of cumulated capacity (included on-grid and off-grid plants). According to the eleventh five-year plan (Eleventh Plan, 2007-2012) the capacity of installed renewable energies should achieve 25 GW by the end of 2012. Right now, there is a great focus on large scale photovoltaic projects: the goal is to install 500 MW of photovoltaic power connected to the grid by 2013 (end of the first phase of JNNSM - Jawaharlal Nehru National Solar Mission), one of the eight national missions outlined in the NAPPC with the objective to promote the installation of 20.000 MW of solar power on-grid and 2.000 MW off-grid by 2022, using both photovoltaic and CSP technology.

India, with its energy development program and **thanks to multiyear grants, is one of the most attractive and rewarding countries for investments** as far as production of photovoltaic energy.