

**RADIANT  
SOLAR**



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Accreditation by Ministry of New and Renewable Energy of Government of India (MNRE) as authorized Channel Partner for Off grid, decentralized solar applications and Grid Connected Rooftop Solar Power Plants

## **A CASE STUDY OF 15kW SOLAR INSTALATION AT MOBILE COMMUNICATIONS (India) Pvt. Ltd, NEW DELHI**



- Approved Empanelment Agency under ANERT 10,000 Home Projects in Kerala
- Second largest installer for ANERT 10,000 Home Projects in Kerala
- Radiant Solar – A company consisting of 90% Engineers
- We know it, we understand it
- Radiant Solar allows you to be free from all procedural whirlpools after placing the order
- From installation to subsidy Radiant does it all



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## Introduction

Mobile Communications (India) Pvt. Ltd (MCIL) located at Narayana, Industrial Area, Phase-II, New Delhi. MCIL is an ISO 9001-2008 Company, established in 1992 with its Head Office in Delhi. MCIL has established its branches in many states in no time and growing at a rapid rate. MCIL as the channel partner is responsible for strengthening the product range, value addition to the existing customers and a bridge between the global suppliers.



## The Challenges

MCIL was facing the following major challenges:

- Continuously increasing Electricity Bills
- High average monthly electricity consumption
- Frequent and constant power cuts
- Number of working hours lost due to power breakdown

Mr. Ravi Gandhi, CEO of MCIL strongly believes that we should find the alternative sources of energy. To accomplish this goal, MCIL contacted Radiant Solar, one of the leading solar company.

After seeing the magnificent Radiant Solar installation at MACFAST – India's first college to go solar: <http://www.youtube.com/watch?v=JW3K8JbdCII&feature=youtu.be>. MCIL decided to go green with Radiant Solar.

## Radiant's Solution

Radiant Solar proposed a 15kW Grid Interactive Solar Power Plant, after analyzing the energy consumption, peak hours of utilization, and current electricity tariff rates of electricity by the technical experts.

The proposed Grid Interactive solar power systems use solar modules to convert solar energy into electrical energy. Solar regulators, which are also known as solar charge controllers, regulate the solar module's charging current before it is stored in banks of specially designed batteries.

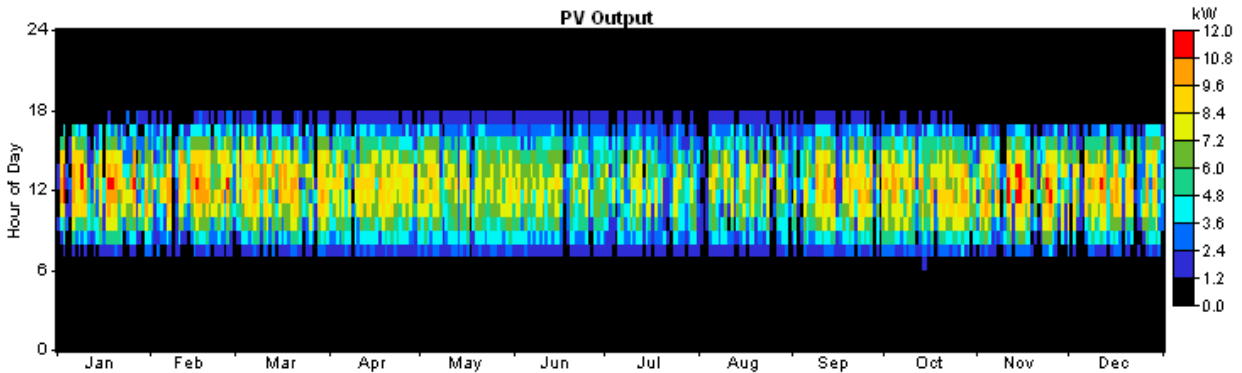
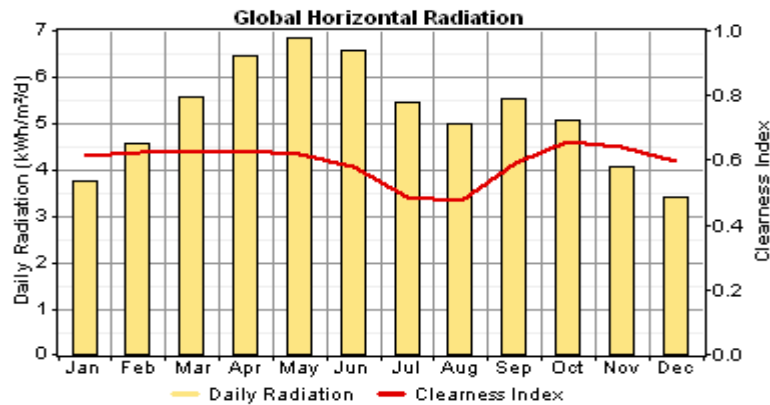
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The average annual solar insolation at MCIL location is 5.18kWh/m<sup>2</sup>/day and the MCIL installation designed to generate around 51.8 units of electricity per day and 18,912 units of electricity per year as per the average annual solar insolation.



**Project Details**

**Technical Details**

|                          |                                                    |
|--------------------------|----------------------------------------------------|
| Capacity of Power Plant  | 15kW                                               |
| Type                     | Grid interactive with battery backup               |
| Inverter                 | Imported Leonics make 15kW Grid Interactive number |
| Charge Controller        | Imported Leonics make 240V 70A                     |
| Modules                  | 11.27kWp Polycrystalline Modules                   |
| Battery Bank             | 240V 200Ah Tubular VRLA GEL                        |
| Annual Energy Generation | 18,912/annum                                       |

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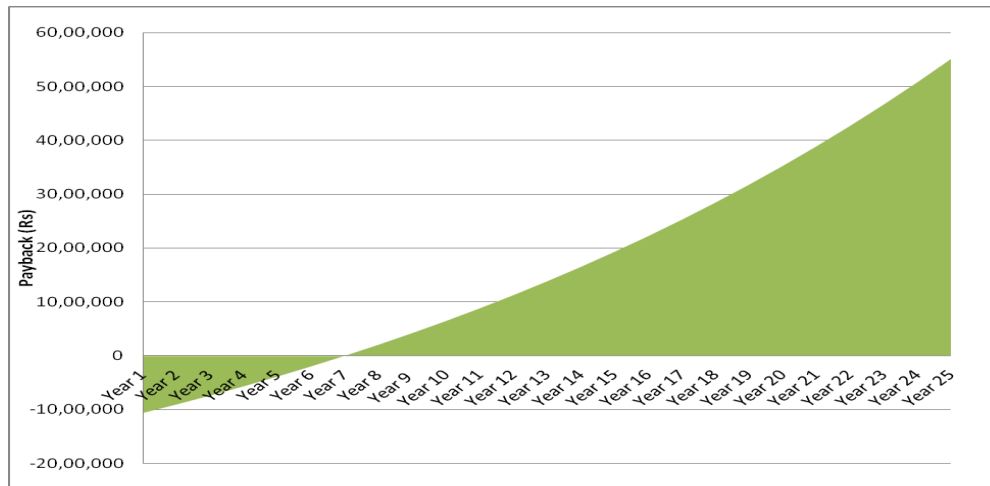


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## Return On Investment

The Return on Investment for this power plant was one of the attractive and persuasive features. Based on an average of 51.8 Units of power generated per day for a 15kW system, and factoring in various other parameters the system has a rapid return on investment of 6 years.



## Subsidy

- Under the Jawaharlal Nehru National Solar Mission (JNNSM), the Ministry of New and Renewable Energy (MNRE) MCIL was eligible for Rs. 72/Wp.
- Radiant has done all the documentation and approached MNRE for subsidy

## Service & Maintenance

- Radiant Solar warranted the solar power system to be free from manufacturing defects for Five year from the date of commissioning as per MNRE guide lines.
- Any Service Call is handled within 24 hours

**Call us now for more information +91-8414-392602/603/604**

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**To know more about Radiant Solar, visit us at [www.radiantsolar.us](http://www.radiantsolar.us)**

**Catch us live at: <http://www.youtube.com/watch?v=JW3K8JbdCII&feature=youtube>**

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