Solar Panel –
A solar panel is a collection of solar cells. Lots of small solar cells spread over a large area can work together to provide enough power to be useful. The more light that hits a cell the more electricity it produces,
so spacecraft are usually designed with solar panels that can always be pointed at the Sun even as the rest of the body of the spacecraft moves around, much as a tank turret can be aimed independently of where the tank is going.
Solar panel refers either to a photovoltaic module, a solar thermal energy panel, or to a set of solar photovoltaic (PV) modules electrically connected and mounted on a supporting structure.
A PV module is a packaged, connected assembly of solar cells. Solar panels can be used as a component of a larger photovoltaic system to generate and supply electricity in commercial and residential applications.
Uses

Assemblies of photovoltaic cells are used to make solar modules which generate electrical power from sunlight, as distinguished from a "solar thermal module" or "solar hot water panel." The electrical energy generated from solar modules, colloquially referred to as solar power, is an example of solar energy.
The PV MARKET has been on an upward trend for years now. The market is expected to continue to grow until 2050. The demand far outstrips supply and there is a huge gap to be filled. In India, there is about 1.4 GW of module manufacturing capacity and this is expected to increase in the future since the solar PV segment is one part of the entire value chain where the barriers to entry is relatively low. Thus, as an entrepreneur, solar module production offers an exciting opportunity to you.
Few Indian Major Players are as under

- Central Electronics Ltd.
- Environ Energy-Tech Services Ltd.
- Epic Energy Ltd.
- Euro Multivision Ltd.
- H B L Power Systems Ltd.
- Helios Photo Voltaic Ltd.
- I T I Ltd.
- Indosolar Ltd.
• J S W Green Energy Ltd.
• Jupiter Solar Power Ltd.
• N E P C India Ltd.
• P L G Power Ltd.
• Pentafour Solec Technology Ltd.
• Photon Energy Systems Ltd.
• Rajasthan Electronics & Instruments Ltd.
• Reliance Industries Ltd.
• Renewable Energy Systems Ltd.
- Res Photovoltaics Ltd.
- Shurjo Energy Pvt. Ltd.
- Surana Ventures Ltd.
- Tata Power Solar Systems Ltd.
- Titan Energy Systems Ltd.
- Udhaya Semiconductors Ltd.
- Ujaas Energy Ltd.
- Usha (India) Ltd.
- Websol Energy System Ltd.
- X L Energy Ltd.
<table>
<thead>
<tr>
<th>COST OF PROJECT</th>
<th>MEANS OF FINANCE</th>
<th>(Rs. in lacs)</th>
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<tbody>
<tr>
<td>Particulars</td>
<td>Existing</td>
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<td>Land &amp; Site Development Exp.</td>
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<tr>
<td>Buildings</td>
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<td>Plant &amp; Machineries</td>
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<td>109.00</td>
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<td>Motor Vehicles</td>
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<td>Office Automation Equipments</td>
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<td>31.00</td>
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<td>Technical Knowhow Fees &amp; Exp.</td>
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<td>Franchise &amp; Other Deposits</td>
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<td>Preliminary &amp; Pre-operative Exp</td>
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<td>Provision for Contingencies</td>
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<td>Margin Money - Working Capital</td>
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<td>TOTAL</td>
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## PROJECT AT A GLANCE

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<th>Year</th>
<th>Annualised</th>
<th>Book Value</th>
<th>Debt</th>
<th>Dividend</th>
<th>Retained Earnings</th>
<th>Payout</th>
<th>Probable Market Price</th>
<th>P/E Ratio</th>
<th>Yield Price/ Book Value</th>
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<tr>
<td></td>
<td></td>
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<td>%</td>
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<th>Year</th>
<th>D. S. C. R.</th>
<th>Debt / Equity as</th>
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<th>Return on Net Worth</th>
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<tr>
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<td>P/V Ratio (Number of times)</td>
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<td>Current Ratio (Number of times)</td>
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## PROJECT AT A GLANCE

### BEP

<table>
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<tr>
<th>Description</th>
<th>Value</th>
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<tbody>
<tr>
<td>BEP - Maximum Utilisation Year</td>
<td>5</td>
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<tr>
<td>Cash BEP (% of Installed Capacity)</td>
<td>58.58%</td>
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<tr>
<td>Total BEP (% of Installed Capacity)</td>
<td>61.87%</td>
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### IRR, PAYBACK and FACR

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<tr>
<td>Internal Rate of Return (In %age)</td>
<td>25.16%</td>
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<tr>
<td>Payback Period of the Project (In Years)</td>
<td>2 Years 4 Months</td>
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<tr>
<td>Fixed Assets Coverage Ratio (No. of times)</td>
<td>11.873</td>
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</tbody>
</table>
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   1.2. Location & Geographical Area
   1.3. Topography
   1.4. Map
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8.7.2. Cash Flow
8.7.3. Cost as % Ge of Sales
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Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Solar Panel

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3. Economic feasibility study of the Project
4. Market potential survey/research
5. Report Compilation

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- Individual Entrepreneurs
- NRI’s
- Foreign Investors
- Non-profit Organizations, NBFC’s
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations
Sectors We Cover

- Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling
Sectors We Cover

- Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct
Sectors We Cover

- Copper & Copper Based Projects
- Dairy/Milk Processing
- Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer based Projects
- Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- Food, Bakery, Agro Processing
Sectors We Cover  Cont...

- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitality Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries
Sectors We Cover

- Infrastructure Projects
- Jute & Jute Based Products
- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing (Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc.
Sectors We Cover

- Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- Plastic Film, Plastic Waste And Plastic Compounds
- Plastic, PVC, PET, HDPE, LDPE Etc.
Sectors We Cover

- Potato And Potato Based Projects
- Printing And Packaging
- Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals
Sectors We Cover Cont...

- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry (Packaged Drinking Water & Mineral Water)
- Wire & Cable
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