to be an innovative and competitive global enterprise providing end-to-end solar energy solutions to customers

The module manufacturing unit located at Hyderabad is ISO9001:2008 & ISO14001:2004 certified by TUV and equipped with state-of-the-art facilities. This division presently has a production capacity of 40 MW producing crystalline modules in the range of 3Wp to 305Wp.

Thermal Division is the first Indian company to have a manufacturing facility for ETC based Solar heating systems with state-of-the-art machinery for manufacturing tanks & flat plate collectors.

System Integration & EPC Division is among India’s leading EPC company have installed over 125MW capacity.
COMPANY DIVISIONS

- Solar Power Plants
- Solar Thermal Solutions
- Solar PV Modules
## Company Highlights

<table>
<thead>
<tr>
<th>Highlight</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>One of India’s oldest Solar PV &amp; SWHS Brands since 1995</td>
<td></td>
</tr>
<tr>
<td>125 MW Utility Scale Solar Power Plants &amp; Solar Rooftop Plants</td>
<td>Installed &amp; commissioned. 25MW under execution</td>
</tr>
<tr>
<td>Over 220 million units of Solar Power generated</td>
<td></td>
</tr>
<tr>
<td>First Utility Scale 3MWp Solar Power installed in India, first &amp; largest</td>
<td>Solar Power Plant with single-axis tracking in India</td>
</tr>
<tr>
<td>Marquee Customer base – ISRO, Tata Power, NTPC, GMR, APGenco, Karnataka</td>
<td>Power, Eenadu Group, Dr. Reddy Labs, E.I Dupont</td>
</tr>
<tr>
<td>Installed and commissioned India’s first Solar Seawater Desalination</td>
<td>plant</td>
</tr>
</tbody>
</table>
Experienced in Crystalline, Thin Film & CdTe module plants

Proficiency in various tracking, seasonal & fixed structures

Highly qualified, multi-disciplinary (CEM) design team

Dedicated project execution division
PHOTON PV MODULES

- Photon multi-crystalline (PM Series) & mono-crystalline modules (PMM Series) are IEC 61215 and IEC 61730 certified by TUV & UL up-to 305Wp


- Customer base across five continents in various countries including Germany, Spain, Italy, France, East African countries and Southern Africa
PHOTON SOLAR presents India’s Highest Generating SOLAR POWER PLANT Eenadu Midjil Solar Plant

- **PLF** * 24.5%
- **Generation** * 2.1 Million Units per MW per annum
- **PR** * 83.07%

*Photon Edge: Superior Engineering = Higher Generation*

*Actual Midjil Site Data (2014-2015)*

*PR = Performance Ratio (Solar Power Industry Standard) (Typical Indian Solar Plant PR = 75-76%)*

*PLF = Plant Load Factor (Power industry Standard) (Typical Indian Solar Plant PLF = 19%-20%, 1.6-1.7 million per MW)*
The PHOTON EDGE
Ranked among India's top EPC contractors

- SELF EPC 52.7%
- Other contractors

- TATA POWER SOLAR
- YIKRAM SOLAR
- JAKSON
- RAYS POWER INFRA
- PHOTON ENERGY
- KEC
- UIAAS
- RAYS EXPERTS
- NHPL
- BHARAT SOLAR
- BHEL
- ELECTRIC
- Lanco Energy
- Premier Solar
 Photon had 6 plants in the top 13 among all the 69 solar power plants (RPSSGP) all over India !!!

<table>
<thead>
<tr>
<th>Rank</th>
<th>Name of the Project Proponent</th>
<th>State</th>
<th>Capa (MW FY 2012-13)</th>
<th>Generation Per Mwp</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Gajanan Financial Services Pvt. Ltd.</td>
<td>Andhra Pradesh</td>
<td>1748430</td>
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<tr>
<td>2</td>
<td>Basant Eneterprises</td>
<td>Rajasthan</td>
<td>1711935.82</td>
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<td>3</td>
<td>Nav Bharat Buildcon Pvt. Ltd.</td>
<td>Rajasthan</td>
<td>1702878.84</td>
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<td>4</td>
<td>AEW Infratech Pvt. Ltd.</td>
<td>Rajasthan</td>
<td>1636381.8</td>
<td>1636382</td>
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<tr>
<td>5</td>
<td>Photon Energy Systems Limited</td>
<td>Andhra Pradesh</td>
<td>1597710.55</td>
<td>1597711</td>
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<tr>
<td>6</td>
<td>Andhra Pradesh Power Generation</td>
<td>Andhra Pradesh</td>
<td>1582330</td>
<td>1582330</td>
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<tr>
<td>7</td>
<td>Asian Aero Edu Aviation Pvt. Ltd.</td>
<td>Rajasthan</td>
<td>1562671.2</td>
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<tr>
<td>8</td>
<td>Bhavani Engineering</td>
<td>Andhra Pradesh</td>
<td>1548075</td>
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<tr>
<td>9</td>
<td>RL Clean Power Pvt. Ltd.</td>
<td>Tamil Nadu</td>
<td>1543450.38</td>
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<tr>
<td>10</td>
<td>Amrit Jal Ventures Ltd.</td>
<td>Andhra Pradesh</td>
<td>1526003.06</td>
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<tr>
<td>11</td>
<td>Ramakrishna Industries</td>
<td>Andhra Pradesh</td>
<td>1511619.83</td>
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<td>12</td>
<td>Andhra Pradesh Industrial Infrastructure</td>
<td>Andhra Pradesh</td>
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<td>1471830</td>
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<tr>
<td>13</td>
<td>SDS Energy Pvt. Ltd.</td>
<td>Haryana</td>
<td>1456899</td>
<td>1456899</td>
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<tr>
<td>14</td>
<td>C &amp; S Electric Limited</td>
<td>Haryana</td>
<td>1431670</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>B &amp; G Solar Private Limited</td>
<td>Tamil Nadu</td>
<td>1428480</td>
<td></td>
</tr>
</tbody>
</table>
PHOTON TRACKERS

• Single Axis Horizontal Tracking System
• Installed and commissioned 10 MW plant with crystalline modules
• Installed largest solar pv plant with trackers in India
• Generate 15% more energy for any given site
• Additional energy production reduces system’s levelized cost of electricity (LCOE)
• Return on Investment (ROI) far superior to any alternate fixed structure modules (thin film or CdTe)
• Completely indigenized and domestic components ensure lower costs, faster delivery and higher IRR
• Fewer moving parts and motors means lower operating and maintenance costs
10MWP SOLAR POWER PLANT
First Tracking Plant in India

Capacity : 10MWP  Location: Mahbubnagar
Modules : REC 250 & 255Wp Crystalline
Structure : Single Axis Trackers
Inverter : Toshiba 630KW Indoor

India’s Highest PLF (24.5%) Solar Power Plant
5MWp Solar PV Power Plant
First Island based MW Size for NTPC

Capacity : 5MW   Location: Andaman & Nicobar
Modules : Photon 235Wp Crystalline
Structure : Seasonal Tilt
Inverter : SMA 800Kw Outdoor
1MWp Solar Power Plant
Defence Organisation

Capacity : 1MWp
Modules : Photon 250Wp Crystalline
Structure : Fixed Tilt
Inverter : Delta 50Kw String
## 5.4MWp Solar Power Plant
### AP Genco
### Canal Based Solar PV Plant

<table>
<thead>
<tr>
<th>Capacity</th>
<th>5.4MWp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modules</td>
<td>Photon 315Wp Crystalline</td>
</tr>
<tr>
<td>Structure</td>
<td>Seasonal Tilt</td>
</tr>
<tr>
<td>Inverter</td>
<td>Sungrow 1MW</td>
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</tbody>
</table>

![Solar Power Plant Image](image-url)
### 3MWp Solar Power Plant

First MW Size Plant in India

<table>
<thead>
<tr>
<th>Capacity</th>
<th>3MW</th>
<th>Location: Belgaum, Karnataka</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modules</td>
<td>Photon 230wp Crystalline</td>
<td></td>
</tr>
<tr>
<td>Structure</td>
<td>Fixed Tilt</td>
<td></td>
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<tr>
<td>Inverter</td>
<td>Optimal 250Kw Indoor</td>
<td></td>
</tr>
</tbody>
</table>
TURNKEY SOLUTIONS

- Consultation
- Site identification, radiation study & generation simulation
- System design, installation & Procurement
- Utility and Building permits, MNRE paperwork
- Service and Maintenance
- Complete turnkey solutions for mega watt size & off-grid power plants
KALINGA INSTITUTE OF SOCIAL SCIENCES
500 KW SOLAR ROOFTOP INSTALLATION
HYDERABAD’S HIGHEST SOLAR ROOFTOP
SOLAR ROOFTOPS - ISRO

ISRO - 3060 KW SOLAR ROOFTOP INSTALLATION
SAGAR CEMENTS LTD

Hyderabad

60KW Solar PV Power Plant

Specifications

• Module: 250Wp - 300pcs
• Inverter: 20KW Sting Inverter – 3 Nos.
SOLAR ROOFTOPS – Corporate Buildings
Car Parking Lots & Bluescope Installations
Solar Energy for today... & tomorrow
Thank you!