Dear Friends,

At Waaree, our vision is to provide high quality and affordable solar solutions, reducing our customers’ dependence on nonrenewable energy, while paving the way for a more sustainable future. We pride ourselves in offering an extensive range of products and services, ranging from utility scale EPC services to remote location power solutions, from PV modules and Solar Water Heaters to Solar Essential Portablekits. We have provided many innovative solutions and services in the past twelve years, which include many technically challenging assignments and projects.

Our focus on quality and customer satisfaction along with consistent service delivery have allowed us to maintain a leadership position in the solar power sector and enjoy customer loyalty. Waaree Energies Ltd, with its commitment to continuously innovate, has taken lot of new initiatives in Solar field by launching technologically advanced, world class, high efficiency Solar PV modules like Super 400 & Super 400 Pro, Merlin Solar Module, Anti-Dust, Anti-Reflection, Explosion proof certification, Bifacial, 500Wp, AC Solar Modules. Also innovative solutions like Floating Solar, Inverters, Flexible Modules & Batteries.

Waaree ventured international EPC with the ground breaking 49.5 MW solar project in Vietnam which was completed in record 100 days. We have an aggressive strategic plan in place to strengthen our leadership in market. Our endeavour on going forward, will be to secure and execute utility-scale solar power EPC projects globally. Waaree has so far supplied more than 2.5GW of solar modules, which will considerably lower the carbon footprint and provide green, clean and sustainable energy which is the need of the hour.

We hope you will join us in our journey to become the most preferred solar partner for our stakeholders.

Warm regards,
Hitesh Doshi
Chairman & Managing Director
30 YEARS OF INDUSTRY EXPERIENCE

**1989-1997**
Waaree Group founded by Mr. Hitesh Doshi in 1989 with a focus on instrumentation.

**1997-2007**
Joint Venture with Italian and Chinese partners.

**2007-2011**
Establishment of Waaree Energies Ltd. in the solar energy sector.
30 MW module manufacturing line set up in 2007.

**2011-2013**
Acquires 100% stake in Cesare Bonetti to diversify the valve sector.
Divestiture of precision engineering manufacturing to a Swiss group.

**2013-2014**
Expanded Independent Power Producer (IPP) business to 150 MW.
Joint Venture with MiniRatna for a 100 MW project.

**2014-2019**
Expansion of manufacturing cumulative capacity to 2 GW.
Introduction of Merlin Technology Floating Solar and International EPC.
Introduction of Waaree Franchisee with over 300 Solar stores Globally.
Launch of Super 400 Series 400Wp Bifacial & Mono Module.
GROUP BUSINESS INTEREST

Solar Energy Solutions | Industrial Valves And Level Gauges
Energy Storage Solutions | Instrumentation
Financial Services (NBFC) | Independent Power Producer (IPP)

VALUES

Integrity
Respect For Individuals
Customer First
Passion For Excellence
Continuous Improvement & Innovation

VISION

Our vision is to provide high quality and cost-effective solar power across emerging markets, reducing carbon footprint paving the way for a more sustainable energy future thereby improving quality of human life.

MISSION

By virtue of our commitment to our stakeholders, we strive for continual improvement in the quality of our products & services.
PRESENCE ACROSS SOLAR VALUE CHAIN

WAAREE ENERGIES LIMITED

PV Modules | EPC Services | Rooftop Solutions | Floating Solar | Energy Storage

KEY STRENGTHS

Module Manufacturing | EPC | R&D | Technology
Network | Speed | Supply Chain | Financing
Expertise | Advisory Services
SOLAR PV MODULES

Our manufacturing capability allows us to manufacture both ranges, polycrystalline and mono crystalline PV modules. We can manufacture modules from 3 Wp to 400 Wp. We use high efficiency solar cell procured from the best suppliers in the world. We provide higher reliability in terms of power output, temperature and geographical variations. We are one of the largest producer of solar modules in India.

2 GW Module
Manufacturing Capacity

3 Wp to 400 Wp
Power Range

10 Years Limited Product Warranty*
25 Years Limited Power Output Warranty**
- Minimum 90% At The End Of 10 Years
- Minimum 80% At The End Of 25 Years

CERTIFICATIONS

IEC 62804
UL1703
ROHS Compliance
REACH Compliance
IS 14286
ISO 9001:2015
ISO 14001:2015
OHSAS 18001:2007
ISO 45001:2018
IEC 61215:2005
IEC 61730-1&2: 2004
IEC 60068-2-68
IEC 61701
IEC 62716

R-72002038
R-72002020

PV CYCLE

TIER1
Intertek

Bloomberg

approved product

www.waaree.com
INHOUSE TESTING FACILITY

- Thermal Cycling Test
- Damp Heat Test
- Wet Leakage Current Test
- PID Test
- Adhesiveness Test
- Electroluminence Test
- Salt mist, Ammonia corrosion Test
- Humidity Freeze Test

Solar Cell Tester • Pressure Cooker Test • Frame Anodizing Test
EVA Gel Content Test and Peel Test • Glass Fragmentation Test • Junction Box IP 67 Test

KEY FEATURES

- Superior Module Efficiency as per International Benchmarks
- Positive Power Tolerance 0-5Wp
- PID Resistant with long term reliability
- Glass with Anti Reflective Coating (Improves light transmission)
- Salt mist, Ammonia and Hail Resistant
- Sustain Heavy Wind & Snow Loads (2400 Pa & 5400 Pa)
- IP 67 rated Mc4 compatible connectors
- Modules binned by current
PROJECT DEVELOPMENT

We have a dedicated in-house team for identification and acquisition of land—both lease and purchase.

EPC VALUES

At Waaree, our extensive experience across the EPC value chain helps us address the requirements of developers and promoters of off grid, on grid, hybrid solar power generation systems.

EPC UTILITY SCALE PROJECTS (MW)

- Solar Parks
- Solar Solution for PSUs and IPPs
- Large Rooftops

VALUE ENGINEERING

- Highly experienced design
- Project management
- Execution and O&M team
- Technology Agnostic

SPEED OF EXECUTION

On time project commissioning credentials to maximize ROI

ROBUST BACKGROUND

Proven track record of 30 years of the Group. More than three decades of proven track record of the group. One amongst the oldest players in EPC with impeccable track record in project execution.

IN-HOUSE FACILITIES

PV Module Manufacturing of Polycrystalline & Mono crystalline Modules, Inverter, Module mounting structures, and technological tie-up of Floating Solar, single axis trackers.

PROVEN EXPERIENCE

A solar energy powerhouse, backed by portfolio of few most significant projects in the country

END TO END SOLUTION

Complete assistance from Pre-PPA activities to financial closure in addition to technical EPC services
<table>
<thead>
<tr>
<th>600+ MW’s SOLAR PV PROJECTS COMMISSIONED</th>
</tr>
</thead>
<tbody>
<tr>
<td>50MW</td>
</tr>
<tr>
<td>Waaneep Solar Pvt. Ltd.</td>
</tr>
<tr>
<td>Madhya Pradesh</td>
</tr>
<tr>
<td>50MW</td>
</tr>
<tr>
<td>Waaneep Solar Pvt. Ltd.</td>
</tr>
<tr>
<td>Andhra Pradesh</td>
</tr>
<tr>
<td>49.5MW</td>
</tr>
<tr>
<td>Vietnam</td>
</tr>
<tr>
<td>44MW</td>
</tr>
<tr>
<td>Hero Future Energies</td>
</tr>
<tr>
<td>Telangana</td>
</tr>
<tr>
<td>25MW</td>
</tr>
<tr>
<td>Roha Dyechem Pvt. Ltd.</td>
</tr>
<tr>
<td>Rajasthan</td>
</tr>
<tr>
<td>14MW</td>
</tr>
<tr>
<td>Roha Dyechem Pvt. Ltd.</td>
</tr>
<tr>
<td>Maharashtra</td>
</tr>
<tr>
<td>14MW</td>
</tr>
<tr>
<td>Maharashtra Seamless Ltd., Maharashtra</td>
</tr>
<tr>
<td>10MW</td>
</tr>
<tr>
<td>Sharda Construction &amp; Corporation Pvt. Lt.</td>
</tr>
<tr>
<td>Maharashtra</td>
</tr>
<tr>
<td>5MW</td>
</tr>
<tr>
<td>Shree Saibaba Green Power Pvt. Ltd., Maharashtra</td>
</tr>
<tr>
<td>5MW</td>
</tr>
<tr>
<td>Bhadresh Trading Corporation Ltd.</td>
</tr>
<tr>
<td>Madhya Pradesh</td>
</tr>
<tr>
<td>5MW</td>
</tr>
<tr>
<td>Green Tech Power Pvt. Ltd., Rajasthan</td>
</tr>
<tr>
<td>4MW</td>
</tr>
<tr>
<td>Aditya Birla Group</td>
</tr>
<tr>
<td>Gujarat</td>
</tr>
<tr>
<td>4MW</td>
</tr>
<tr>
<td>MAHAGENCO</td>
</tr>
<tr>
<td>Maharashtra</td>
</tr>
<tr>
<td>3MW</td>
</tr>
<tr>
<td>Abellon Clean Energy Ltd.</td>
</tr>
<tr>
<td>Gujarat</td>
</tr>
<tr>
<td>2MW</td>
</tr>
<tr>
<td>Shahane Solar Power Pvt. Ltd., Maharashtra</td>
</tr>
<tr>
<td>and many more...</td>
</tr>
</tbody>
</table>
ROOFTOP SOLUTIONS (KW)

- RCC Roof
- Industrial Roofs
- Elevated Structures
- Carport
- Micro Grids & Off Grid Solutions
- Building Integrated Photovoltaic (BIPV)

At Waaree, our modular designs meet all topography and engineering requirements of each project and customer.

Our services extend from conceptualising to commissioning supported by a robust after-sales service.

PEACE OF MIND

Complete assistance from feasibility studies to financial closure in addition to technical EPC services.

Our in-house manufacturing of PV modules ensures budget solutions without compromising on quality.

Our systems are designed by extensive computer simulations and testing to yield maximum power generation.
<table>
<thead>
<tr>
<th>2700KW</th>
<th>2000KW</th>
<th>1860KW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reliance Metro Mumbai</td>
<td>Mondelez India Pvt. Ltd. (Cadbury), Andhra Pradesh</td>
<td>Maharashtra Seamless Ltd., Maharashtra</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1700KW</th>
<th>1000KW</th>
<th>700KW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piramal Glass Ltd. Gujarat</td>
<td>SRG Apparels Tamilnadu</td>
<td>MSL Driveline Systems Ltd., Maharashtra</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>640KW</th>
<th>450KW</th>
<th>429KW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surat Municipal Corporation Gujarat</td>
<td>Orbit Bearings Gujarat</td>
<td>Reliance Mart Pan India</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>400KW</th>
<th>310KW</th>
<th>305KW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grauer &amp; Weil India Ltd. (Growel 101), Maharashtra</td>
<td>Rajasthan Agriculture Marketing Board, Rajasthan</td>
<td>Urja Vikas Nigam Ltd. (MPUVNL) Madhya Pradesh</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>245KW</th>
<th>161KW</th>
<th>100KW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Punjab Energy Development Agency (PEDA), Punjab</td>
<td>Bharat Diamond Bourse Mumbai</td>
<td>Continental Shelf Oman</td>
</tr>
</tbody>
</table>

and many more...
**SOLAR AC MODULE**

- Highest Redundancy type of architecture no single point failure.
- More optimised power tracking (Higher generation than string inverters as each panel has independent MPPT.
- DC wiring is eliminated, AC wiring is standard.
- Monitored at panel level which helps to keep the O&M planned and minimal.
- Micro inverters life is, >30 years - 10 years warranty
- Least effect of moving shadow(s) on the system.
- Lower life cycle cost compared to any other architecture.
- High safety due to low AC voltage of just 230/415 volt.

**FLOATING SOLAR**

- Differentiation: Patented technology, 100% made in India
- Durable & Reliable:- UV resistant floats for long-life: our floats are made in black HDPE pipe which are resistant to UV and associated aspects. Stable against high winds, waves. Designed for quick installation and easy O&M.

**MERLIN MODULES**

- Proprietary mesh mitigates generation loss due to micro cracks.
- Cell to cell interconnect failure is nearly impossible.
- Flexible modules with Peel & Stick installation methodology.
- Frame less and Feather weight modules.
- Superior low angle and scattered light performance.
- Foldable modules with super rugged structure.
PRONTO
DO IT YOURSELF KIT (1KW - 10KW)
- Quick Installation-1KW can be installed in 30 min.
- Qualified material, suitable for tender and Gov projects.
- Least man power requirement.
- Waaree’s latest easy to install solar module mounting structure. Limited to 3 components per structure set.
- No penetration on the surface for structure installation.
- Latest MPPT technology Inverter with remote monitoring.

SOLAR ON-GRID INVERTER
(1KW to 80KW)
- Peak Efficiency up to 98.8%
- Multi MPPT / DC Strings
- IP65 dust-proof and water proof
- Multiple monitoring & communication support
- Ideal design for Rooftop Services / Utility
- Low Self - Power Consumption, Low Maintenance
- String - level Monitoring , Large LCD Display
- Built - in DC Switch and Wi-Fi
- Multiple layer Safety protection

SOLAR OFF-GRID INVERTER
(325VA to 10KVA)
- PWM/MPPT built-in solar charge controllers
- Smart Solar Selection Logic
- Optimum solar power usage
- Hybrid battery Charging
- Maintaining the battery gravity
- Use as a conventional inverter in absence of solar power
- Instant changeover for computers, servers & sensitive loads
- Ability to provide 100% rated power directly from solar panel
SOLAR WATER PUMP
- Wide range of pumps from 0.5HP to 50HP
- Less power losses due to unique winding design
- Approx 7.5 hours of uninterrupted daily running time
- DC brush-less motor which are small in size & easy to handle
- EQDC Approved
- Low maintenance
- Wide experience of installing 2,000 pumps
- Fastest after-sales service
- Highly experienced sales and marketing team

SOLAR THERMAL
- Our solar water heaters are supported by specially designed collectors to harness sun energy and high-density.
- PUF Insulation for efficient heating.
- Our solar water heater solutions have a variety of low and medium temperature applications for domestic and institutional use.
- Our team of qualified commissioning engineers and technicians are equipped to provide both components and turnkey solutions as required by our customers.

ENERGY STORAGE
- Rugged tubular positive plate construction with PDC grid spine for long life.
- Very low self-discharge rate under storage.
- Supplied in ready to use factory charged condition.
- Superior Ampere-hour and watt-hour efficiency.
- Meets IS- 13369 & IEC 61427 specification with latest amendments.
LARGEST NETWORK OF SOLAR PARTNERS

WHY ASSOCIATE WITH WAAREE

Pan India Presence
Ethical Business practices
Customer First approach
Best technology products
“Product to Finance to Execution to Maintenance” under Single roof
Faster ROI & better cashflows

BENEFITS

Opportunity to associate with strong solar brand and organized player in solar franchisee.
Latest technology & Quality products.
Large range of product mix- Single stop solar solutions under one roof.
Competitive price and better margins.
Strong pre & post sales and marketing support.
Training from expert technical and sales professionals to the franchisee's team

LOCATED PAN INDIA

GLOBAL REPUTATION

Present In:
Canada, Germany, Italy, USA, UK, Kenya, Sri Lanka, Bangladesh, South Africa, Dubai, Netherlands, Nepal, Spain, Vietnam, Malta, Belgium, Thailand, Iraq, Uganda, Turkey, Hungary, Mauritius, Yemen, Nigeria, Croatia, Morocco, Australia and many more.
Evolving technologically and volumetrically

2019
2 GW

2018
1.5 GW

2017
550 MW

2014
250 MW

2013
110 MW

2007
30 MW

WAAREE ENERGIES LTD.

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Email: waaree@waaree.com • Website: www.waaree.com

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company/waaree-group waareegroup waareegroup WaareeEnergiesLdOfficial