



Lanco Solar

Simple | Clean | Green | Sustainable | Positive

Always Inspiring

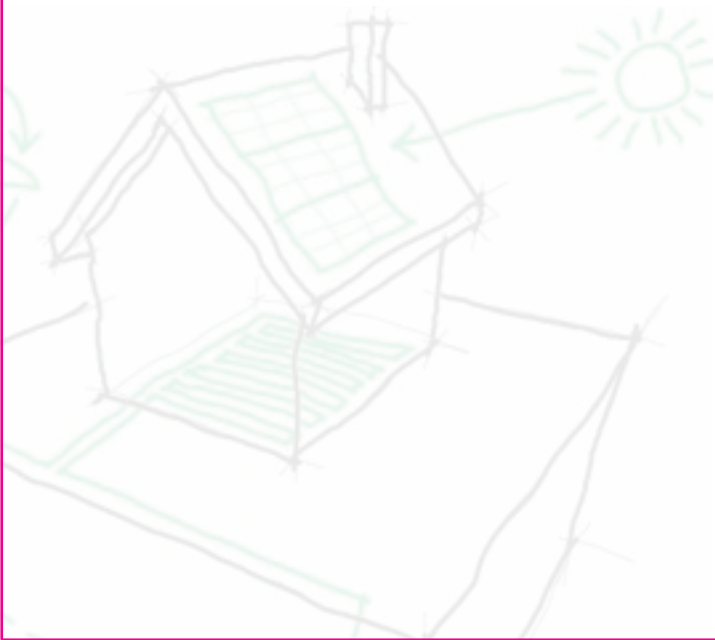
Someday, wherever there's sunshine,
there'll be Lanco Solar Power



Inspired to constantly make things better at Lanco Solar, we are determined to become one of the largest Solar players, by bringing in a unique proposition of an integrated Solar business model. This model is built on our expertise in manufacturing (for Solar PV – Polysilicon, Wafers, Cells and Modules) and the development of Products and Systems.

All this, with a clear vision to be the most admired integrated Solar enterprise.

Always Inspiring



About Us

Lanco Group

Established in 1986, Lanco Group is one of India's fastest growing integrated infrastructure enterprises, operating across a synergistic span of verticals comprising EPC, Power, Solar, Natural Resources and Infrastructure.

As on 31 March 2014, Lanco had an asset base of Rs 50,844 crore (USD 8.47 Billion) and gross revenue of Rs 10,875 crore (USD 1.81 Billion). Among the country's top three independent power producers, Lanco has an operating power portfolio of 4650 MW including gas, coal, hydro and solar.

Lanco has an efficient and comprehensive CSR programme led by Lanco Foundation across 12 states, reaching out to more than 3,00,000 people. As part of its business strategy, Lanco has chalked out an ambitious growth plan in solar energy through Lanco Solar.

Lanco Solar

Lanco Solar is a 100% subsidiary of Lanco Infratech Limited (LITL). Lanco Solar has taken considerable strides in the solar industry during recent years in Integrated Manufacturing, Rooftops, Solar EPC and Project Development, with an aim to deliver sustainable, innovative and cost effective solution across the entire Solar Power Value Chain.

Leveraging its strong core strengths to deliver engineering excellence, Lanco Solar provides turnkey EPC solutions to its customers in India and abroad. Equipped with these strengths, Lanco Solar has entered into EPC agreements with private players for the development of solar plants and utilities (Solar Thermal & Solar Photovoltaic). Lanco Solar has also signed major agreements with reputed corporate organizations and state governments to partner them in their efforts to adopt solar technologies.



State-of-the-Art Manufacturing Facility



The state-of-the-art modules plant, already commissioned and currently in operation, boasts of many 'firsts' in India - crack-free modules being one among them.

Added advantages

- An automated module line for high productivity and quality
- Our module plant is ISO 9001; ISO 14001 and ISO 18001 certified. Also certified by TUV and Intertek
- Suitable for installation in all weather conditions of the world
- Worldwide relationships with the suppliers and manufacturers

Polysilicon, Wafers, Ingots and Cells

Based on the 'sand to power' strategy, Lanco Solar is setting up a fully-integrated PV manufacturing project for the production of high-quality polysilicon, silicon ingots/ wafers and modules in a 250 acre SEZ at Chhattisgarh, India. The project, being built with the latest technology and engineered by the world's leading players, has a production capacity of 1800 TPA of Polysilicon, 360MWp/year of ingots and wafers, high efficiency solar cells and modules.

The first phase of this project is being implemented with a total investment of US\$ 300 million.

Technological features

- Chlorination techniques and CVD reactors to convert metal, grade silicon to high purity polysilicon
- Both casting and crystal-pulling methods available to manufacture silicon ingots from polysilicon
- Cell line capable of handling both mono-crystalline and multi-crystalline wafers
- High-precision, high-productivity wire saws to turn ingots into thin wafers of 180 - 230 micron thickness, ensuring the highest quality
- Latest equipment and technology sourced to produce high-efficiency cells

Special Features

- 100% Crack free Cells in PV Module
- Positive oriented Power Tolerance [0-5W]
- Configured with RFID Tags
- Guaranteed Performance as per Best Industry Standards
- High Quality Induction Soldered Joints
- High Fill factor and less series Resistance Solar Modules
- Less Temp Coefficient
- Solar PV modules Suitable for all types of Climates



Tested for Guaranteed Performance



We test Solar panels to their limits so that our customers get maximum value on their investments.

Our attention to quality includes all stages of the production process, with specific in-process, online and offline quality assurance checks. To ensure defect free modules, we conduct high voltage and insulation test. Besides these tests, each module also undergoes electroluminescence inspection during the process and final visual inspection. Only then can a Lanco Solar panel begin its journey to the customer.

Component Tests

Lanco Solar tests the quality of each module materials / components individually and together. It ensures the high productivity, quality and electrical performance of the module as well as reduces the degradation of the module over its lifetime.

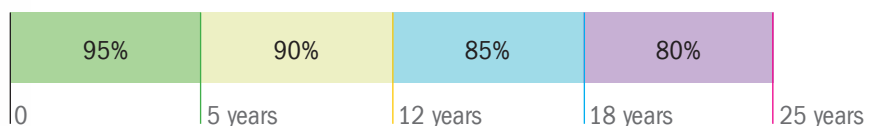
Reliability Tests

Lanco Solar ensures reliability and superior performance of Modules in all types of climatic conditions through extreme environmental testing.

- Thermal Cycling
- Damp Heat
- Humidity Freeze
- Mechanical Load
- Insulation Resistance
- Wet Leakage, etc.

Power Warranty

25 Years Power degradation warranty





Quality You Can Trust

Our deepest commitment to quality and reliability ensures the highest level of excellence of our products at every stage of the manufacturing process.

Salient Features

- Non-Contact Induction technology for highly reliable soldering process
- Electro Luminescence (EL) Tester for crack / defect free modules
- Class AAA performance module tester

Certified for Performance, Durability & Reliability



Lanco Solar is certified according to:

ISO 9001: 2008 Quality management systems

ISO 14001: Environment management systems

OHSAS 18001: 2007 Occupational health and safety management systems

Our products are certified according to:

IEC 61215: Crystalline silicon terrestrial photovoltaic (PV) panels— Design qualification and type approval

IEC 61730: Crystalline silicon terrestrial photovoltaic (PV) panels— Safety qualification

IEC 61701: Salt mist corrosion testing of photovoltaic (PV) modules

Certification Lab



Made in India, Made for the World

- Lanco Solar carries each step of the module manufacturing process in the state-of-the-art facility at SEZ in Chhattisgarh, India
- We adhere to strict environmental and occupational health & safety standards of ISO 9001, ISO 14001 and OHSAS 18001
- We are committed to corporate social responsibility and are a member of the UN Global Compact

Our Promise to Customers

- Uncompromising Quality
- Competitive Cost
- Efficient Service

We offer comprehensive pre and after sales service and pledge superior and timely service to all our customers.

Our Prestigious Projects



Indian Parliament House

India's Parliament House is the hub of policy and politics in the country. When the Government of India wanted to highlight green sources of energy, they chose Lanco Solar to set up and operate an 80 kW solar power plant in the Parliament Annex. Their rooftop PV energy solution has been running successfully since March 2011 and generates around 400 units of electricity on a daily basis. It has become a show-case project of how green energies can be harnessed as a solution to India's growing power needs.

75 MW Solar Project for Mahagenco

Lanco Solar has successfully deployed a 75 MW Solar PV Project for Maharashtra State Power Generation Company Limited (Mahagenco) in Dhule district of Maharashtra, India. Lanco Solar won this EPC (Engineering, Procurement and Construction) contract in a fiercely contested International Competitive Bidding (ICB) process conducted by Mahagenco. The contract valued at Rs. 884 crore (USD 144 million) is the largest deployed Solar Power Project in Asia as of December 2013. This 75 MW solar PV project utilizing the Multi Crystalline Solar Photovoltaic Technology was completed in a record time of nine months and is spread over 267 acres. The power generated by this project over its lifetime is estimated to offset 2.88 million tonnes of CO₂ emission when compared to a coal fired conventional power plant.





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