

With a global  
presence in  
35 countries and

# growing





# power of quality

The only solar company in the world to be awarded a 5-Star rating for quality by TÜV Rheinland two years in a row.



Established in 1983 in New Delhi, India, Moser Baer is one of India's leading technology companies.

Moser Baer has successfully developed cutting edge technologies to become the world's second largest manufacturer of optical storage media and OEM partner to top global brands.

**Moser Baer Solar Limited (MBSL)** is a subsidiary of Moser Baer India Limited. We have leveraged our core competencies in high volume manufacturing of technology products to create a world-class photovoltaic manufacturing facility.



" MOSER BAER SOLAR BRINGS TO THE TABLE ALL THEIR EXPERIENCE AS A TECHNOLOGY COMPANY WITH DIVERSIFIED BUSINESSES. AS A SUPPLIER, THEY HAVE PROVIDED ME WITH HIGH QUALITY SOLAR MODULES, OUTSTANDING CUSTOMER SERVICE AND HELPED ME GROW MY BUSINESS IN THE PROCESS."

► **PHIL REINKEMEYER**  
CEO ALTERENERGY  
DALLAS, TEXAS



# trusted partner

In the exacting world of solar technology, Moser Baer Solar has come to be seen as a trusted partner in a short time.

By every yardstick that counts, the attention to detail in our manufacturing processes, systems, quality controls and customer service has cemented our place as the partner of choice for companies across the globe.

MBSL is a gold-certified business partner to some of the world's most prestigious companies. We have forged strong relationships with several EPC companies, distributors, utilities, educational institutions and Fortune 500 companies.

**Moser Baer products are bankable  
with more than 25 banks and financial  
institutions around the world.**

A TRUSTED PARTNER

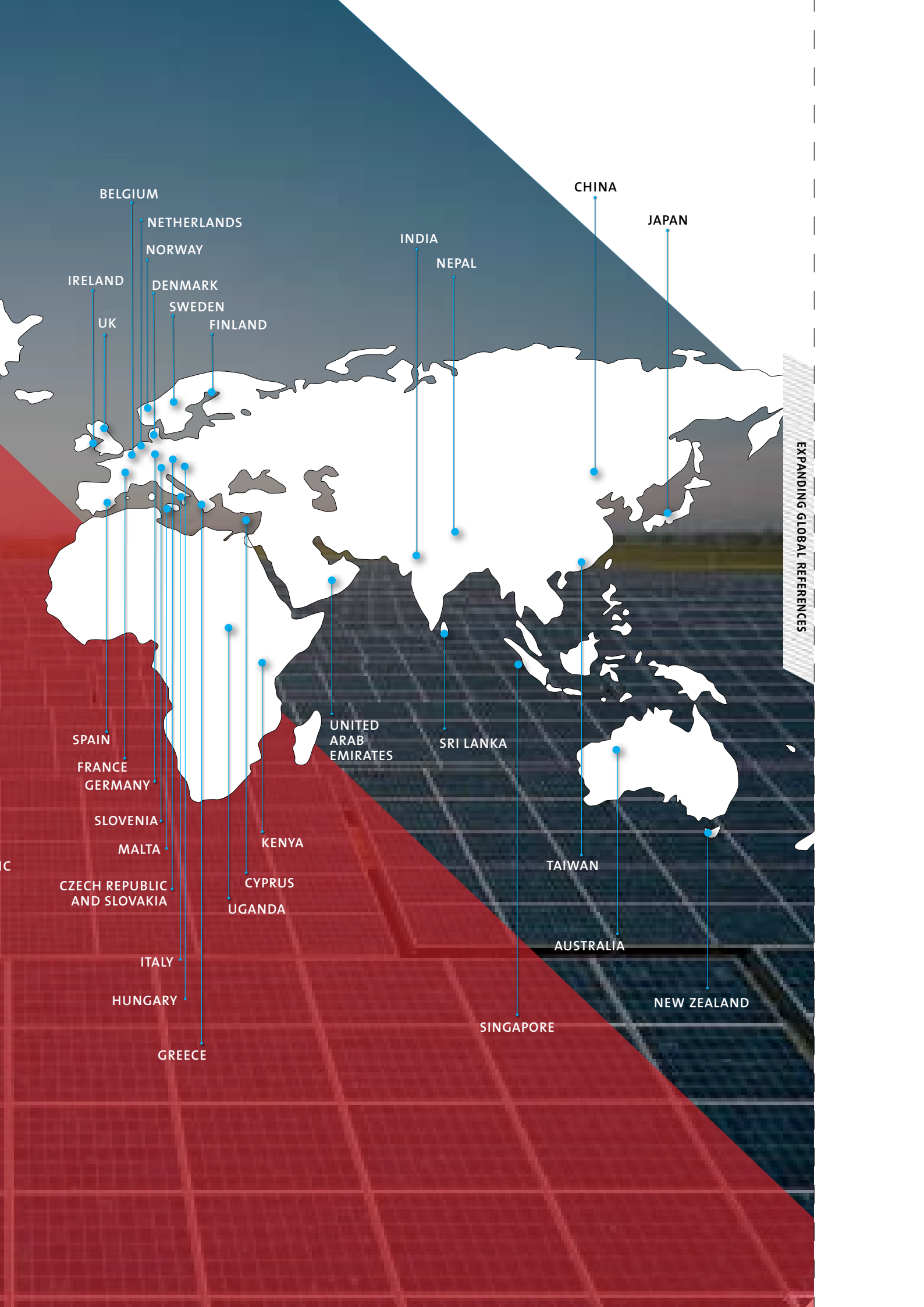


# global presence

Expanding list of global references with installations in more than 35 countries.

Extensive sales and distribution network across the six continents with warehouses in Europe and USA , backed by a dedicated after-sales team.

CALIFORNIA  
WISCONSIN  
OREGON  
COLORADO  
INDIANA  
TEXAS  
VERMONT  
MAINE  
DOMINICAN REPUBLIC  
PANAMA  
COLOMBIA



EXPANDING GLOBAL REFERENCES

BELGIUM

NETHERLANDS

NORWAY

DENMARK

SWEDEN

FINLAND

IRELAND

UK

INDIA

NEPAL

CHINA

JAPAN

SPAIN

FRANCE

GERMANY

SLOVENIA

MALTA

CZECH REPUBLIC  
AND SLOVAKIA

ITALY

HUNGARY

GREECE

KENYA

CYPRUS

UGANDA

UNITED  
ARAB  
EMIRATES

SRI LANKA

TAIWAN

AUSTRALIA

SINGAPORE

NEW ZEALAND

## 1 SUPPLIER QUALIFICATION

- Raw material procurement from top-of-the-line suppliers
- On-site supplier assessment
- Regular supplier audits
- Monthly supplier rating

## 2 INCOMING PRODUCT INSPECTION

- Extensive incoming inspection of raw materials
- Testing from external laboratories
- Periodic trainings for suppliers

## 3 IN-PROCESS QUALITY ASSURANCE

- In-Process audits
- Corrective actions and Improvement
- Regular calibration of measurement systems

## 4 FINAL QUALITY ASSURANCE

- Product and process reliability through periodic testing
- Product verification & Pre-dispatch inspection
- Container stuffing checks

"THE MODULES AND CELLS MANUFACTURED BY MOSER BAER ALL HAVE CERTIFICATES OF QUALITY REQUIRED AS MARKET STANDARDS TO BE FINANCED AND USED IN LARGE PHOTOVOLTAIC PROJECTS. QUALITY IS ALWAYS PRESENT IN THE COMPANY'S PHILOSOPHY AT ALL LEVELS OF OPERATION, AND QUALITY CONTROLS THROUGHOUT THE MANUFACTURING PROCESSES AT THE THREE FACTORIES ARE, IN OUR OPINION, EXCELLENT."

► **ASTROM ENERGÍA SOSTENIBLE**





# rigorous quality control

In-house reliability testing labs and expertise ensure world-class products.

Our quality and reliability tests go far beyond IEC/UL requirements. We have invested greatly in establishing in-house facilities and expertise to subject our cells and modules to rigorous testing at every stage of the manufacturing process.

It is because of this unwavering commitment that our products are known for surpassing international standards, and have been endorsed in glowing terms by international certification agencies and technical advisors.

## QUALITY AND RELIABILITY TESTS

- Outdoor Test for Energy Yield
- Electroluminescence
- IR Thermography
- Reliability Test for Junction Box
- Damp Heat Test
- Thermal Cycling
- Humidity Freeze
- Hot Spot Test
- Low Irradiance Test
- STC & NOCT Performance
- UV
- Outdoor exposure
- Dry Hipot
- Insulation Resistance
- Wet Leakage Current
- Bypass Diode Thermal Test
- Mechanical Load Test

# world class manufacturing

Our fully automated manufacturing facilities are equipped with machinery from world's top manufacturers.

Cutting edge manufacturing facilities and equipment go hand in hand with in-house reliability testing capability to ensure the highest quality standards.

The Company has followed 6-Sigma methodology since inception, and employees engaged in improvement projects based on DMAIC are certified Black and Green Belt by Motorola University. More than 2,000 man-hours of 6-Sigma training have been conducted, in addition to in-house Green Belt and Yellow Belt Certification Programmes.

- ISO 9001 & 14001, OHSAS 18001 (for Health and Safety Standards) by TUV
- SA 8000 (Social Accountability System certificate) by DNV AS certification services
- 5-star rating from TUV Rheinland along with 100% rating for Quality Systems

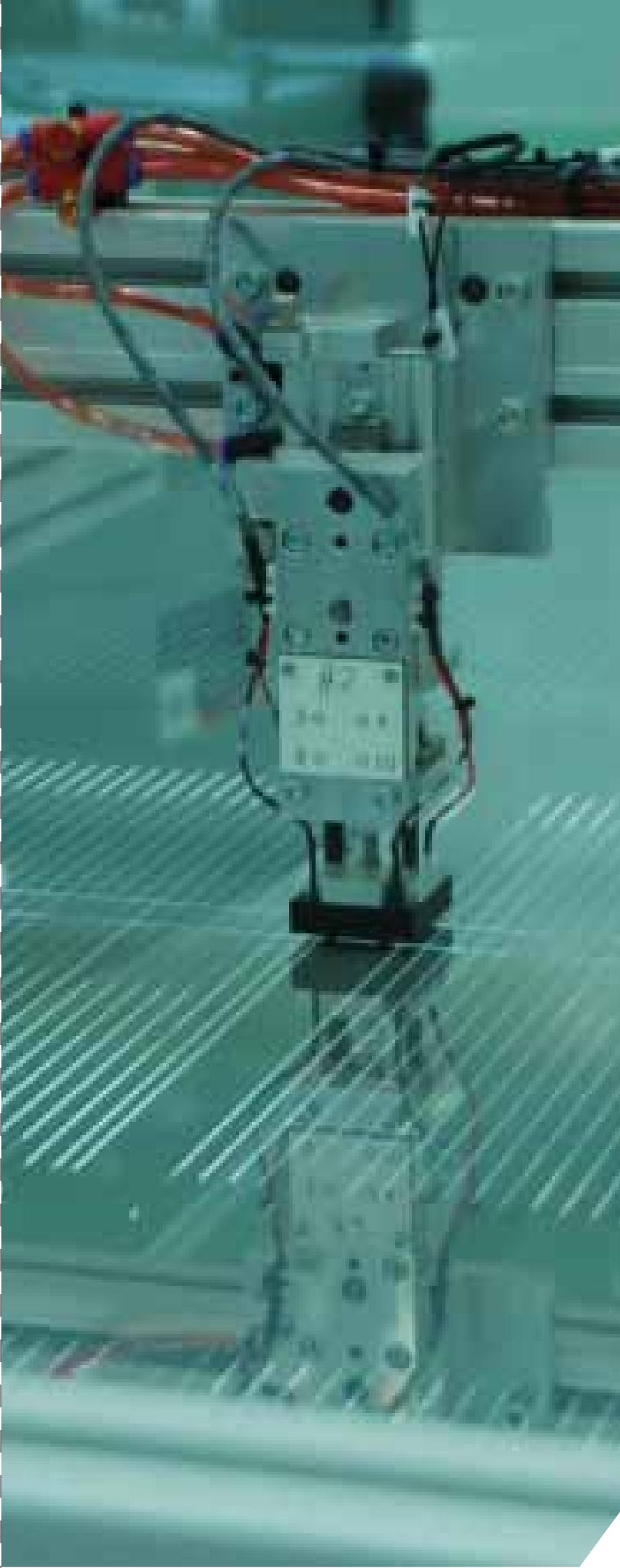


"MBSL'S HIGH TECH FACILITIES AND STATE OF THE ART EQUIPMENT ARE COMPLEMENTED BY A WELL-TRAINED AND HIGHLY SKILLED WORKFORCE."

► **MARC KELLER**  
DIRECTOR, MOBA SOLAR, FRANCE



WORLD CLASS MANUFACTURING



"IN MOSER BAER WE HAVE FOUND A PARTNER WHERE OUR HIGH EXPECTATION TOWARDS QUALITY AND THE WILLINGNESS TO EXCEL WAS PERFECTLY MET FROM THE BEGINNING AND WHO HAS RIGIDLY FOLLOWED AND CONTINUOUSLY DEVELOPED THE SAME. MOSER BAER IS VERY OPEN TO EVERY SINGLE WISH, CHANGE OR SUGGESTION WE MAKE AND PUTS ALL NECESSARY EFFORTS TO CONSIDER AND IMPLEMENT THE SAME. THE COMPLETE MOSER BAER TEAM AND THEIR MULTIFOLD COMPETENCES HAS CONVINCED RALOS TO HAVE FOUND A PREMIUM PARTNER FOR A VERY LONG AND SUCCESSFUL PARTNERSHIP."

► **MR. JOHANNES OCHS**  
BRANCH MANAGER  
RALOS SOLAR GMBH  
MICHELSTADT, GERMANY

# straddling multiple technologies

Customised energy solutions catering to different climatic conditions and geographical locations.

## 1 MULTI CRYSTALLINE CELLS

Multi-crystalline cells are manufactured from highly purified polysilicon using fully automated production lines and advanced robotics delivering high quality cells. The cells are coated with silicon nitride (SiNx:H) anti-reflection layer using DVD sputtering to have uniform deposition ensuring maximum light capturing capability throughout their lifetime.

## 2 MULTI CRYSTALLINE MODULES

The modules are specifically designed to generate optimum energy from sunlight while withstanding the roughest of conditions in a variety of applications (residential, commercial and industrial). The use of high efficiency multi-crystalline silicon solar cells, top quality glass, EVA and Back Sheet ensure robustness, rigidity and high performance.

## 3 THIN FILMS

a-Si thin film modules are frameless Glass-PVB-Glass modules available in quarter, half and full size configurations offering a range of power outputs for different applications. These are ideal for large grid connected Photovoltaic Systems providing excellent performance. Automated inspection and in-house technical expertise ensure tight tolerances and greater reliability with world-class quality.

### CRYSTALLINE SILICON

- IEC 61215 (Edition II)
- IEC 61730 (Safety Class II)
- IEC 61701 – Salt Mist Corrosion Test
- Ammonia Resistance Test
- CE
- UL (USA and Canada)
- CEC Listed
- FSEC Listed
- JET
- MCS

### THIN FILMS

- IEC 61646
- IEC 61730
- IEC 61701 – Salt Mist Corrosion Test
- Compliant as per RoHS Directive 2002/95/EC
- Ammonia Resistance Test
- CE



# sustainability as a corporate goal

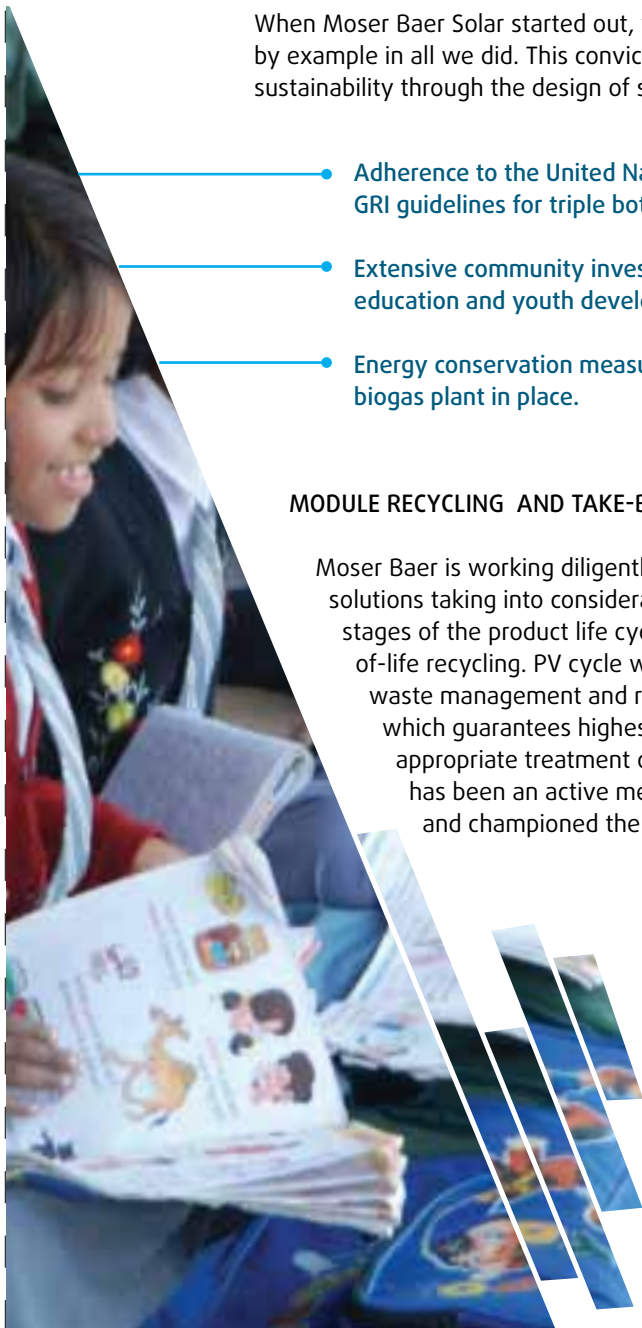
Environment and health safety objectives are incorporated in MBSL's annual business plans. Environmental sustainability has been enunciated as a corporate goal.

When Moser Baer Solar started out, we promised ourselves that we shall lead by example in all we did. This conviction has led to a determination to ensure sustainability through the design of systems, processes and products.

- Adherence to the United National Global Compact, SA-8000 and GRI guidelines for triple bottom line reporting.
- Extensive community investment programs on livelihood, health, education and youth development.
- Energy conservation measures, rain water harvesting systems and biogas plant in place.

## MODULE RECYCLING AND TAKE-BACK PROGRAM

Moser Baer is working diligently to create truly sustainable energy solutions taking into consideration the environmental impacts of all stages of the product life cycle, from raw material sourcing to end-of-life recycling. PV cycle was established to promote a voluntary waste management and recycling policy for the solar industry which guarantees highest economically feasible collection and appropriate treatment of end-of-life modules. Moser Baer Solar has been an active member of PV cycle from the very beginning and championed the recycling and take-back of PV modules.



## RECOGNITION

- Secured prestigious certification of **ISO 14001:2004** for environment management.
- Secured **SA- 8000** certification for being socially accountable.
- **Sony Green Partner Certification** for product environmental management system from Sony Japan securing 96.5%- highest score ever for any company audited by Sony worldwide.
- Recipient of the prestigious **Golden Peacock Environmental Eco -Innovation Award**.
- **First in India to receive recognition** from the Indian Government for forced air treatment.



NORDENDORF, GERMANY | 7.4 MW









PFEFFENHAUSEN, GERMANY | 5.654 MW



KROMĚŘÍŽ, CZECH REPUBLIC | 4.57 MW





TAMIL NADU, INDIA | 5 MW | THIN FILM



CAGLIARI, SARDINIA, ITALY | 978 KW



IMOLA, ITALY | 1 MW



ST. MAXIME, FRANCE | 1 MW



SOKOLOV, CZECH REPUBLIC | 500 KW



BILANY, CZECH REPUBLIC | 4.5 MW



COLORADO SPRINGS, COLORADO, USA | 3.3 KW



MAHARASHTRA, INDIA | 1 MW | THIN FILM



BIESINGEN, GERMANY | 28 KW



BAVARIA, GERMANY | 870 KW | THIN FILM





ALSACE, FRANCE | 174.90 KW



LANDAU, GERMANY | 1.1 MW





AALen - DEWANGEN, GERMANY | 31 KW



LOGIPORT KASHIWA, JAPAN | 500 KW



VM MOTORS, ITALY | 700 KW



HOUSTON, TEXAS, USA | 40.95 KW



SOUTH TYROL, ITALY | 1.05 MW



REGGIO EMILIA, ITALY | 20 KW | THIN FILM



IRELAND | 33.66 KW



SOUTH TYROL, ITALY | 1.70 MW



COMO, ITALY | 200 KW



CALIFORNIA, USA | 45.57 KW



NEW DELHI, INDIA | 158 KW



LJUBLJANA, SLOVENIA | 40.92 KW



MARZELL, GERMANY | 265 KW | THIN FILM



PARMA, ITALY | 20 KW



JAPAN | 382 KW



SCHRAMBERG, GERMANY | 15.6 KW



YAMANASHI PREFECTURE, JAPAN | 36 KW



HOUSTON, TEXAS, USA | 44.10 KW



AALEN-UNTERKOCHEN, GERMANY | 22 KW



SOUTH TYROL, ITALY | 1 MW



SANTO DOMINGO, DOMINICAN REPUBLIC | 2.46 KW



TEPLICE, CZECH REPUBLIC | 11.34 KW



HOKURIKO, JAPAN | 19 KW



LES YVELINES, FRANCE | 31 KW



NETHERLANDS | 7.59 KW



AMSTERDAM, NETHERLANDS | 2.64 KW

# diversified business group

Moser Baer transformed itself from a single business into a multi-technology organisation, diversifying into exciting areas of Solar Energy, Home Entertainment and IT Peripherals & Consumer Electronics.

- World's second largest Optical Media producer with leadership in the next generation of storage formats like Blu-ray discs and HD DVD.
- Global market share of Optical Media products of 20% with products sold in more than 82 countries.
- No. 1 Home Entertainment Company in India with over 10,000 titles (a third of Indian movies released to date).
- Consumer Electronics and IT Peripherals product portfolio comprises DVD players, MP3/MP4 players, LCD TVs, USB drives, DVD writers, etc.









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