

SOLAR CELL·MODULE·SYSTEM

LINUO
POWER

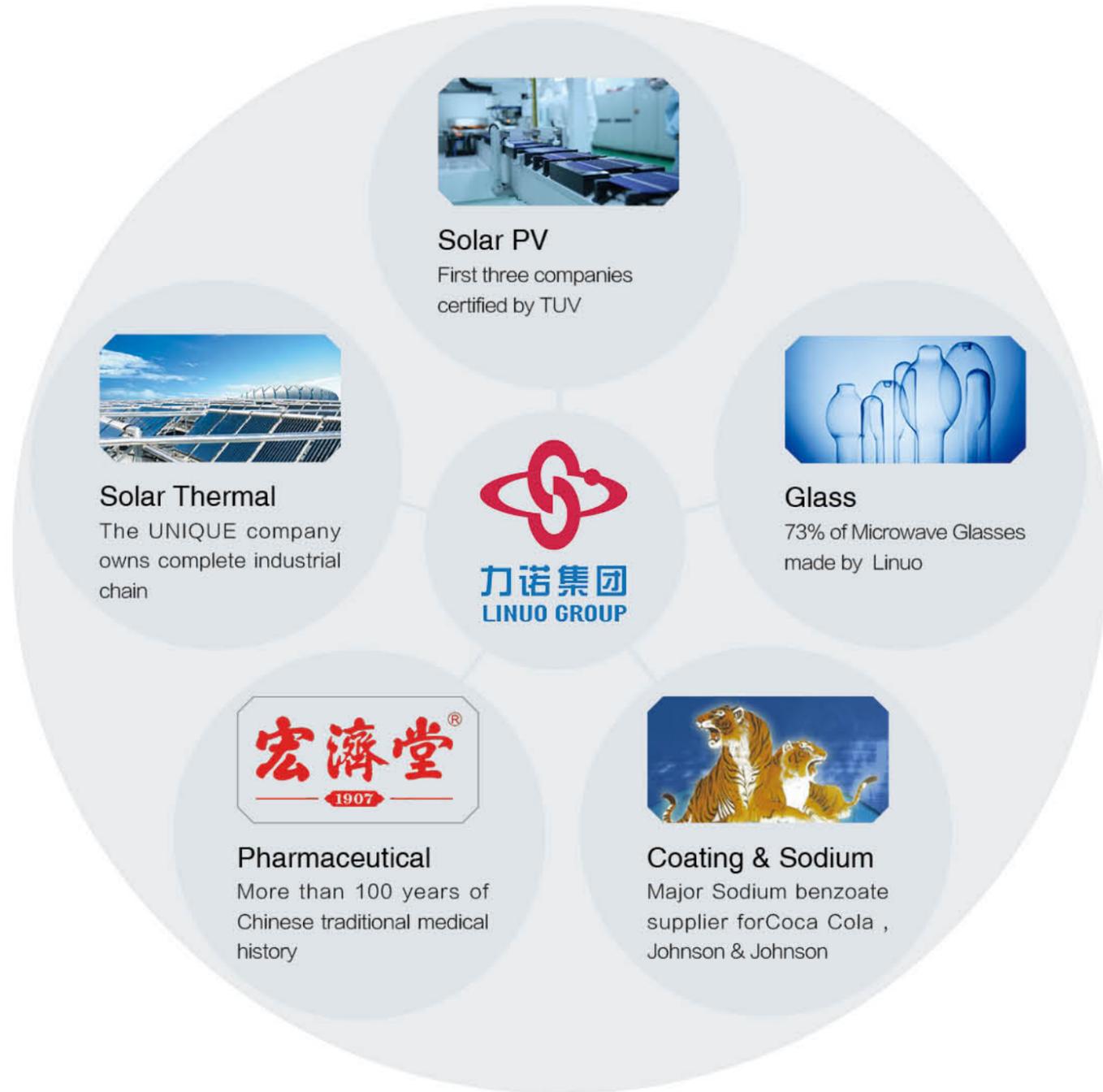


SHANDONG LINUO POWER GROUP
www.Linuopower.com

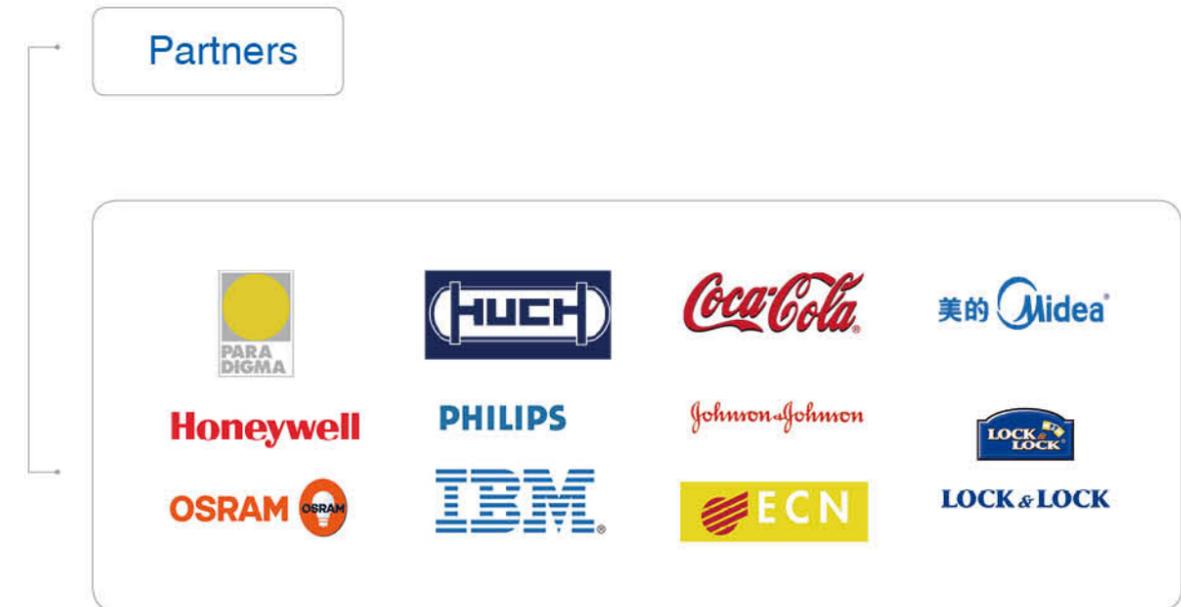
Sunshine is our Life

- 3/ Linuo Group Brief
- 5/ Linuo Power Group Brief
- 7/ History
- 9/ Product Introduction(cells, modules, EPC PV Systems)
- 15/ Quality Control
- 17/ Research and Development
- 19/ Global Sales and Service Network
- 21/ Contact Us

Sunshine is our life



Established in 1994, Linuo Group is a large group corporation focusing on solar industry and health industry with 13000 staff. The annual turnover in 2011 is USD 1.8 billion. Linuo Group engaged in five main industries, owns 31 subsidiaries, 3 overseas companies, 9 overseas offices, 2 overseas R&D organizations, Post-doctoral research station, Taishan Academic Post and Linuo College.



- With being the solar power generating expert as the target, Linuo Power Group has been focusing on the cell, module and PV systems and formed the relatively complete downstream PV value chain since 2003.
- Linuo Power Group has 1500 staff, becoming the remarkable up-coming star in the line through importing the most advanced automatic equipment from Germany, Italy and Korea, etc., integrating the world class process technology & management system, forming international management and R&D team. Linuo Power Group has 500MW solar cell capacity and solar module capacity, which targets the PV cell production capacity of 1000MW in 2013 and increases the module and installation projects capacity accordingly, thus becomes one of the biggest PV manufacture and application bases well as remarkable brand in the world.



• **2003**
Linuo Power was founded
50MW solar module capacity
CE certificate

• **2004**
German market started
ISO 9000

• **2005**
Belgium market started
TUV certificate

• **2006**
100MW solar cell capacity

• **2007**
100MW solar module capacity

• **2008**
Spanish market started
300MW solar cell capacity
300MW solar module capacity
German office established

• **2009**
US market started
UL certificate

• **2010**
American production base started
400MW cell and module capacity

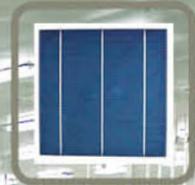
• **2011**
30MW Qinghai PV system was on grid
Greece, UK, Bulgarian market started
South African office established

• **2012**
J-PEC certificate
Japanese market started
100MW PV system in Gansu China started
Australian office established



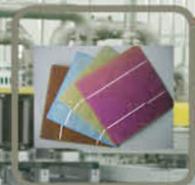
Mono cell efficiency: 18.8%

Target 2012: 19.2%



Poly cell efficiency: 17.2%

Target 2012: 17.5%



Color cell efficiency: 16.2%

Target 2012: 16.5%

CELLS

- The most advanced equipments
- Highly certified multinational management, production and QC team.
- Stable raw material supply chain
- Superior manufacturing technology
- 100% raw wafer inspection
- Low breakage rate
- Instant switching between production lines



MODULES

- 100% EL testing before and after lamination
- Exceptional performance under low solar irradiance
- Maximized compatible with all well-known inverters
- 5400pa snow load and 2400pa wind load
- Resistance to ammonia & salt mist corrosion
- Linear performance warranty in 25 years
- 100% insured by CHUBB
- Current binning
- Global bankable





10MW in Tibet
Altitude: 3836m
Max. wind force: Grade 12
UV radiation: Grade 5
System output efficiency: 81.5%
Temperature difference between day and night: 30.7℃

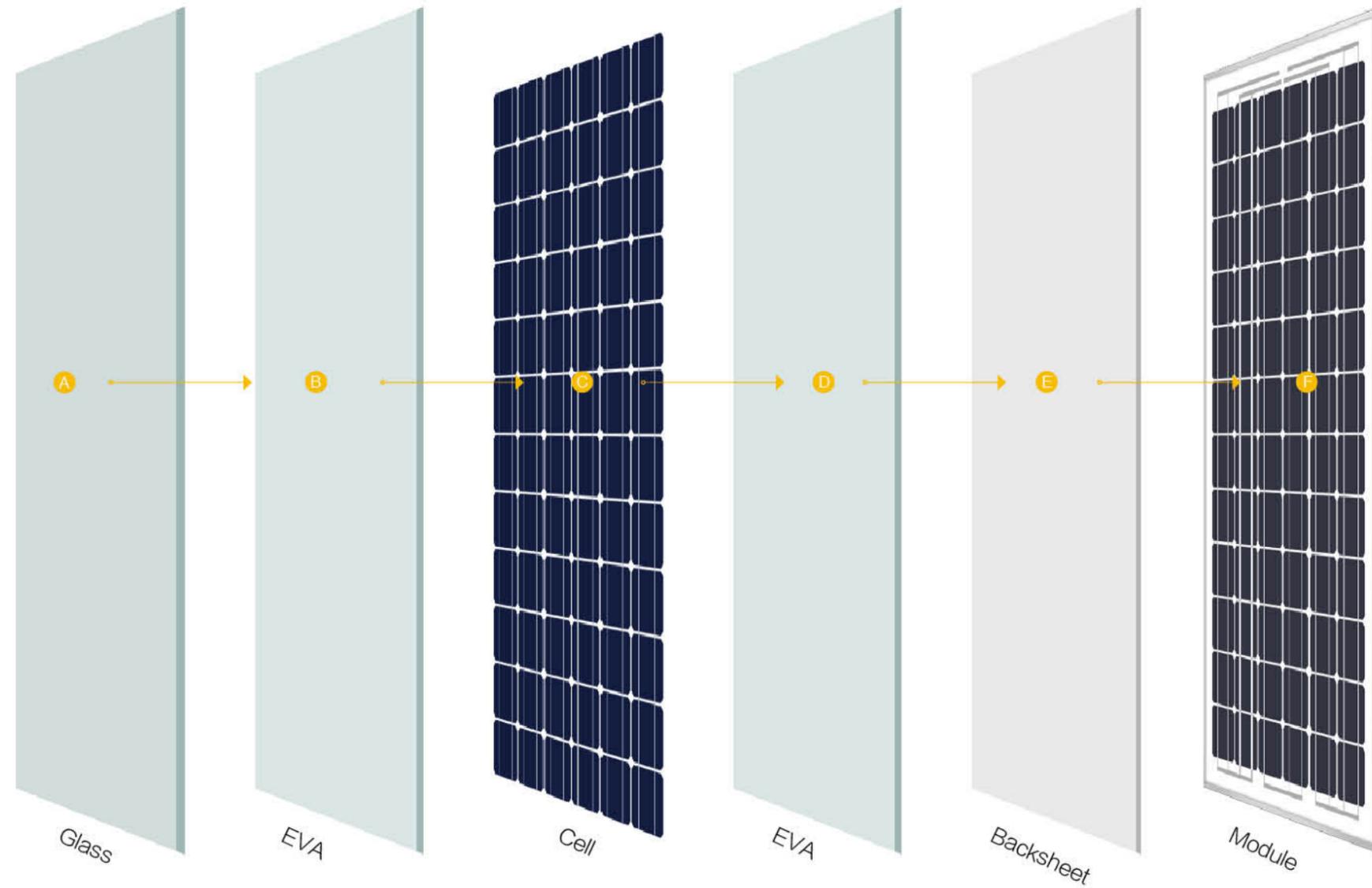


● 54KW in Japan
System output efficiency: 95%

● 2.4MW in Germany
System output efficiency: 85%

● 1MW in Italy
System output efficiency: 86.5%

● 10MW in Linuo Hi-Tech Park
System output efficiency: 82.5%



Layer	Testing
A	Impact testing Light transmittance
B&D	UV Damp-heat Cross linking degree
C	3D microscope measuring Spectral measurement
E	Damp-freeze Tensile testing
F	Hi-pot testing EL testing Mechanical Load Thermal cycling Flash testing

- ISO9001, ISO14000, OHSAS18001;
- MES(Manufacture Execution System);
- SPC(Statistical Process Control);
- Reference cell and modules from TUV and Fraunhofer;
- SOP in all steps and activities;
- 36 hours customer service and 24 hours hotline;
- Spare parts available in our worldwide warehouse.



- To improve the efficiency of solar cells, we insist on improving the manufacturing technology including SE, back passivation. We are also developing N-Type solar cell, HIT cell and Flexible thin film Si PV.

- Linuo Power has extensive cooperation with the international and local science and research organization including ECN, IBM, Tsinghua University, Semi-conductor of Chinese Academy of Sciences, etc.

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Linuo Power Australia

- Under construction

Linuo Power Thailand

- Under construction