

# LESSO Solar

## SOLAR SOLUTIONS MANUFACTURER

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# HERITAGE

LESSO Group | LESSO Solar | Development Course | Brand Value | Manufacturing Giant

**USD4.38 bil**

Annual Sales Revenue

**40 years**

Production Experience

**30+**

Production Bases

**10000+**

Product Categories

**2200+**

Patents Applied

**LESSO**

Envisioning the better,  
Building the future.

LESSO Group is a Hong Kong-listed (2128.HK) manufacturer of building materials with an annual revenue of over USD4.38 billion from its global operations.



## LESSO Solar

**LESSO Solar**, a flagship division of LESSO Group, specialises in manufacturing solar panels, inverters, and energy storage systems, and providing comprehensive solar-energy solutions.

Our four production bases are equipped with advanced intelligent and automated lines, dedicated to the manufacturing of solar PV modules and solar cells, and have achieved a global production capacity of over 15.3GW for solar panels and 6GW for solar cells.

Since launching its global expansion strategy in 2022, LESSO Solar has been growing at a spectacular pace, extending its reach to over 50 countries worldwide with dedicated global support teams.



**4 major**

Production Bases



**15.3GW**

Annual Production Capacity



**50+ countries**

Global Support Teams



# Development Course

**1986**

The Xixi Plastic Hardware Factory was founded in Shunde, Guangdong.



**2001**

The first subsidiary outside Guangdong Province was built in Wuhan, Hubei Province.



**2011**

Its sales volume exceeded RMB 10 billion and expanded its business to the building materials and home furnishings industry.



**2013**

LESSO started to provide customers with integrated solutions from design / production / installation / decoration to services.



**2016**

It built a global platform to provide channels and services.



**2021**

The injection molding workshop of LESSO Indonesia, LESSO's first overseas self-built factory, was put into operation, improving the global layout of overseas markets.



1980

2000

2010

2013

2016

2021



**1996**

The company LIANSU was founded with its trademark registered and it began its brand development.



**2010**

China LESSO was listed on the Mainboard of Hong Kong Stock Exchange. (Stock name: China LESSO, Stock code: 2128.HK)



**2012**

It implemented the parent brand and sub-brand operation model.



**2015**

It further developed its major business and made the strategic plans for the environmental protection industry.



**2019**

In March, LESSO's first automated workshop was put into operation, a shift to intelligent manufacturing. LESSO Tianying was established in Sept, marking LESSO's first step into the agriculture sector.



**2022**

LESSO Solar was founded as LESSO's official reach out to the new energy sector.

**CHINA LESSO**

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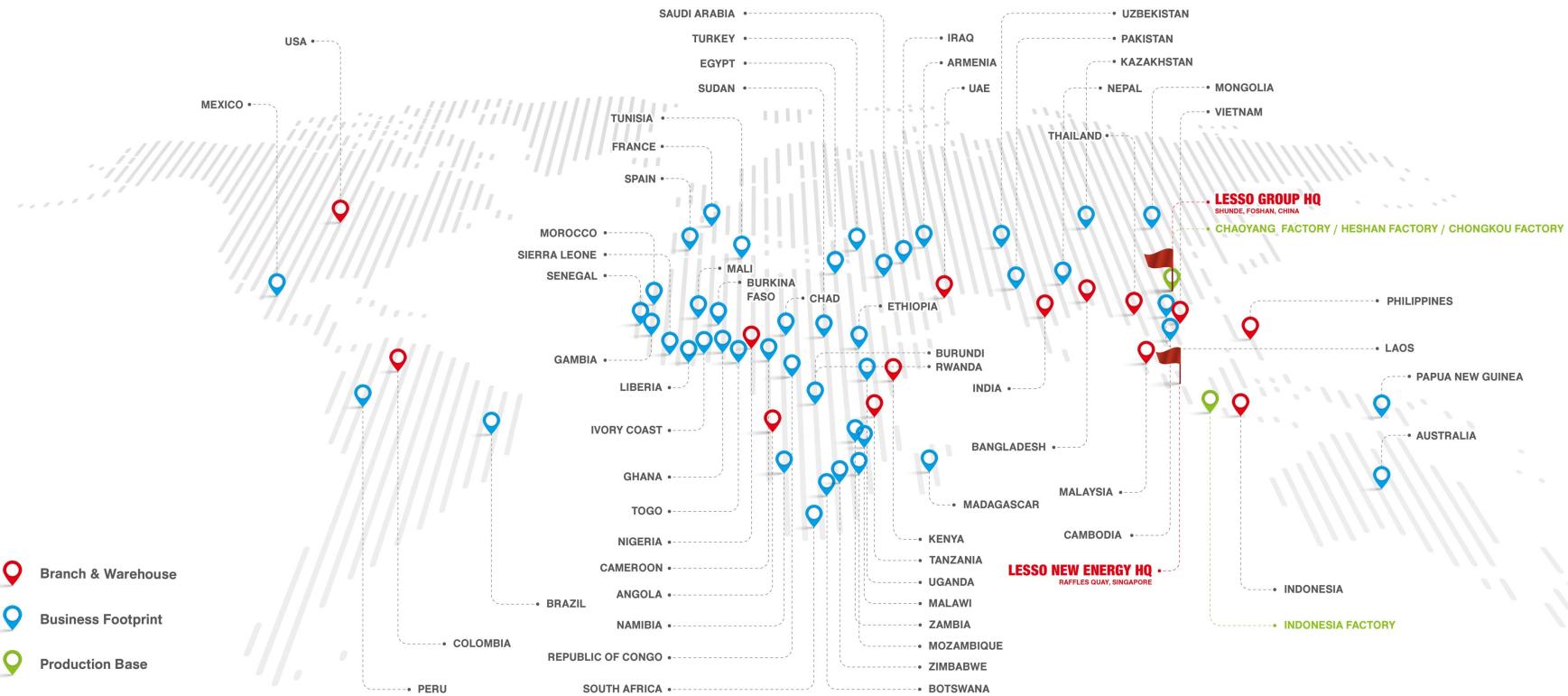
**FORTUNE CHINA TOP 500**

**NO.450**



# Manufacturing Giant

LESSO Solar has been expediting the adoption of smart manufacturing by proactively building smart factories across the world. With a focus on expanding our global production, logistics, sales, and service network, we aim to meet the diverse needs of customers all over the world.



# Manufacturing Giant - Production bases



**Chaoyang Factory**

Foshan, China

**6.4GW** in Solar Modules and Energy Storage

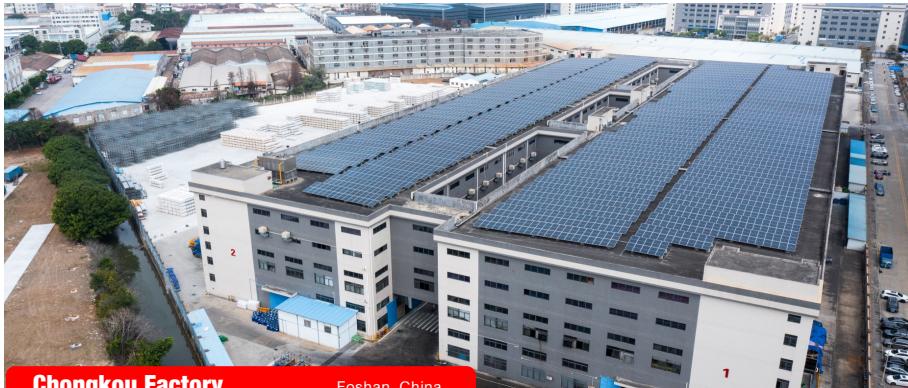


**Heshan Factory**

Jiangmen, China

**6GW** in Solar Modules

**6GW** in Solar Cells



**Chongkou Factory**

Foshan, China

**500MW** in Solar Modules



**Indonesia Factory**

Central Java, Indonesia

**2.4GW** in Solar Modules

# INNOVATION

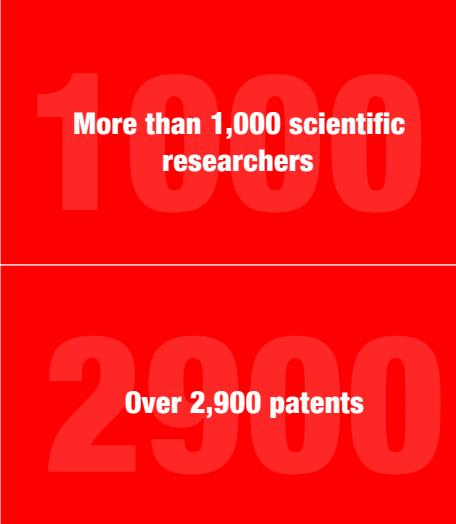
Research & Development | Advanced Manufacturing | Quality Certification

Solar PV Modules | Smart Solar Solutions



1 key enterprise laboratory of  
plastics molding and  
processing technology in  
Guangdong Province

5 China national  
accredited laboratories  
authorized by CNAS

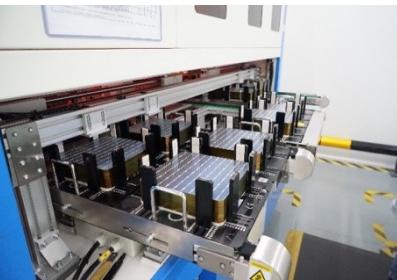


28 national high-tech  
enterprises  
2  
2 post-doctoral  
workstations



## Advanced Manufacturing

- Strict Quality Control
- Digital Intelligent Manufacturing
- Management System Certification
- 24 Hours Operation
- Constant Temperature Workshop



## Quality Certification

**LESSO** Building a  
Solar-powered world.



CALIFORNIA  
ENERGY COMMISSION

هيئة كهرباء ومياه دبي  
Dubai Electricity & Water Authority



## Solar PV Modules

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Advanced Automated Production,  
High-Efficiency Solar Modules

## Energy Storage Systems

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Batteries & Inverters Included,  
Reliable Power Supply

## Project Investment and Partnership

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Project Development & Financing,  
Driving Green Transition

## Engineering and Technical Support

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End-to-End Engineering,  
Optimized Energy Systems



## LTH series

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### Release Unlimited Power, Leading Innovation

Power Range

Maximum Efficiency

**430-730W** **23.51%**

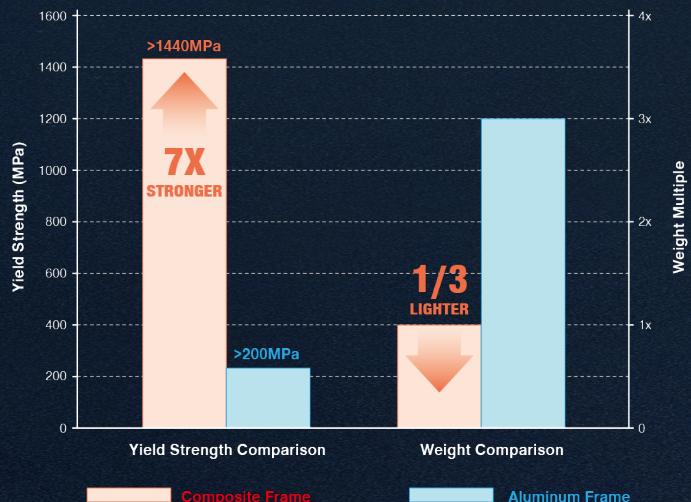
The LESSO Solar LTH Series leverages advanced TOPCon technology to achieve a maximum module efficiency of 23.51%. Featuring N-type cells with zero light-induced degradation (LID), this series ensures superior energy yield. With an annual degradation rate of just 1% in the first year and 0.4% thereafter, the LTH Series delivers exceptional long-term power generation performance, maximizing revenue potential for customers.



## Composite Frame (glass fiber reinforced polyurethane composite)

### Lighter & Stronger

for same-size modules



- Insulation & PID Prevention
- Lightweight & Cost Saving
- High Strength & Stability
- Matched CTE, No Warping
- All-Weather Resistance
- Low Carbon, Lower Cost



## Intelligent Storage for Smart Living



### SAFETY

The battery system complies with multiple key international standards – UN38.3, MSDS, etc.



### EFFICIENCY

MPPT efficiency **>99%**, PV efficiency **>96%**, system efficiency up to **95%**.



### DURABILITY

Module warranty **30** years, system design life **>15** years.



### RELIABILITY

Grid/solar/battery switching time **<10** ms for an uninterrupted experience.



### FLEXIBLE

Requires only **4.5 m<sup>2</sup>/kW** for module installation, fitting different installation scenarios easily.



## Residential Solar Solution

LESSO Solar The LESSO residential solar solution is equipped with high-performance solar panels. It maximizes the self-consumption of solar power, reducing household electricity bills and helping to create a zero-carbon home.



Reducing  
electricity bills



Intelligent charging  
and discharging

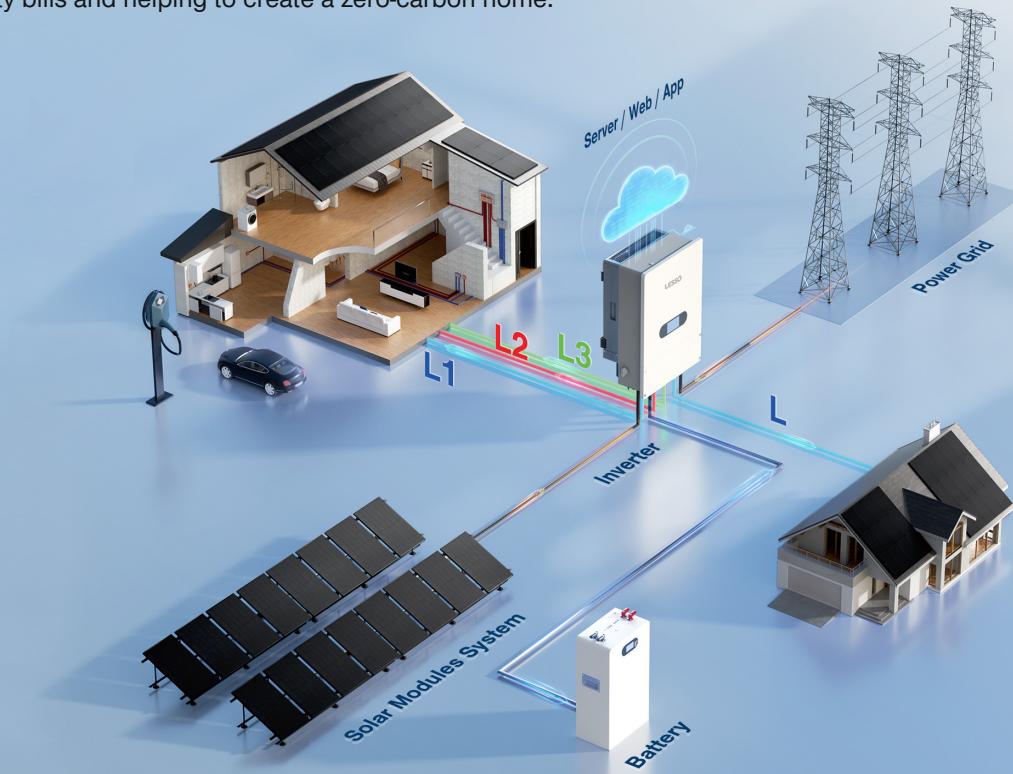


Protect  
environment

Hybrid Inverter  
**LEC-BBD Series**



Battery  
**LSRW 10kWh**



# EV Charger series

**LESSO** Building a  
Solar-powered world.



Easy installation  
and easy  
maintenance



Support  
intelligent power  
allocation



Powerful  
compatibility,  
no model selection



Integrated EV Charger  
**LSADC**



AC EV Charger  
**LSACS**

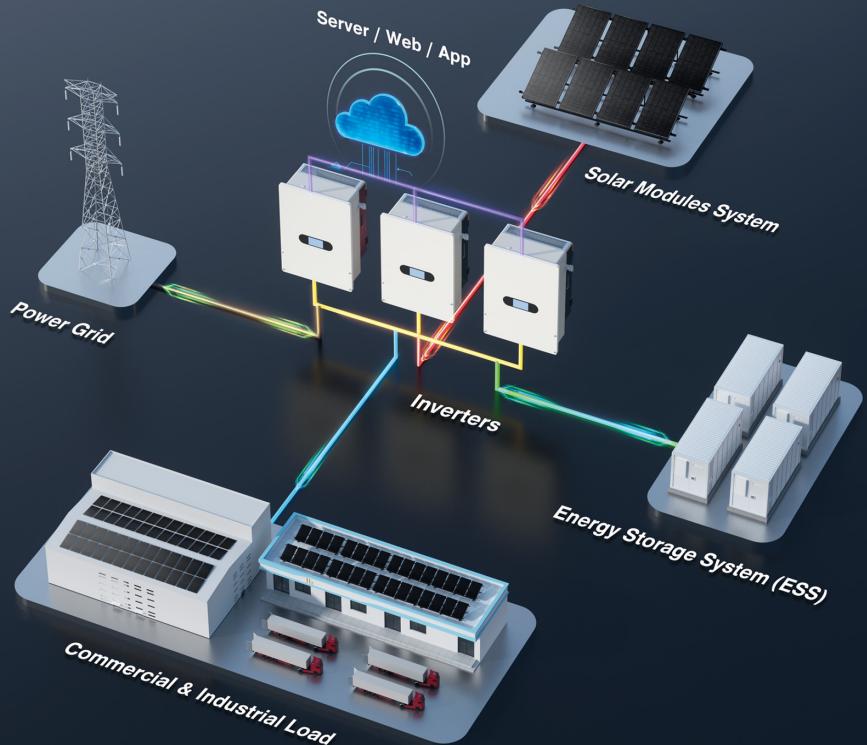
LESSO's inverter for C&I, presents a multifaceted solution tailored for medium to large-scale solar installation endeavors. Its state-of-the-art characteristics assure exceptional energy conversion efficacy and contribute to the steadfastness of the power grid, thereby providing a dependable and sustainable electrical supply for commercial and industrial utilization.



On-grid Inverter  
**LSBH 80-125kW**  
80-125kW | Three phase | 8-10 MPPTs



On-grid Inverter  
**LSBH 225-230kW**  
225-230kW | Three phase | 12 MPPTs



# Energy storage system



The management content is clear and visible



The battery status is monitored at all times



AI provides the optimal charging and discharging solution



# Smart PV Energy System

**LESSO** Building a  
Solar-powered world.

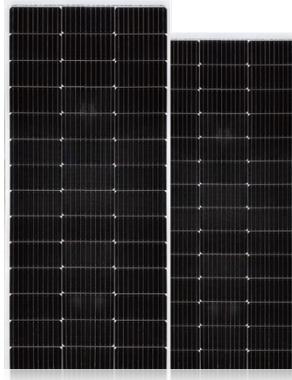
## Heat insulation - reduction of building temperature

## Save energy and carbon emissions

## **Increase usable floor space, Generate additional profit**



LESSO BIPV is a new generation of photovoltaic energy, which is perfectly integrated with buildings to realize the integration of energy and buildings, integrating the dual functions of buildings and photovoltaics, and giving priority to the use of buildings.



YANGMING 150-162W



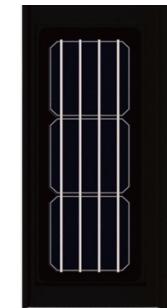
YANGMING 100-108W



YANGMING 50-54W



MUGUANG 15W

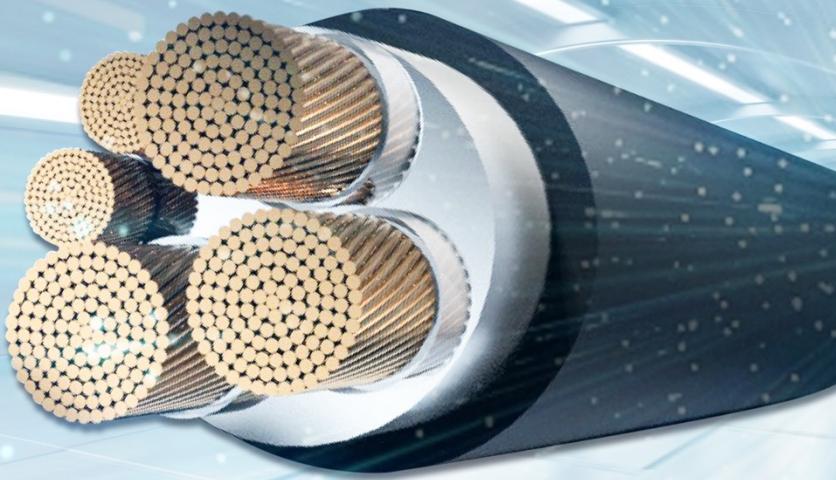


MUGUANG 22W



MUGUANG 59W

LESSO Cable is dedicated to providing safe and reliable power solutions. The company has strong scientific research, production and manufacturing capabilities. Stable power output is ensured through high-quality products, which meet the requirements of safe and efficient operation of multi-scene solar PV power generation systems.



## Mounting System

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Solar Mounting System for  
**Color Steel Tile Roof**



Solar Mounting System for  
**Concrete Roof**



Solar Mounting System for  
**Agriculture and Aquaculture Farm**



Solar Mounting System for  
**Glazed Tile Roof**



**BIPV Water-proof**  
**Solar Mounting**

# EPCO Full Life Cycle Services

The LESSO Centre for New Energy Projects is a global centre for creativity, expertise, and business solutions. We design and manage solar-power projects for the Group's customers around the world, from Cairo to Copenhagen, from Shenzhen to San Francisco, from big to small, from beginning to end.



**E**NGINEERING



**P**ROCUREMENT



**C**ONSTRUCTION



**O**PERATION

# PROJECTS

Project Highlights | Global Exhibitions

## Project Highlights

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**LESSO** Building a Solar-powered world.



Project Capacity

**8.57MW**

Kajiado, Kenya

### KEDA Ceramics Solar Power Station

Project Area: 60,000m<sup>2</sup>

Annual Average Power Generation: 1,310MWh



Project Capacity (Phase I)

**600MW**

Xinjiang, China

**Karamay Desert Solar Power Station**

Project Area: 15,000,000m<sup>2</sup>

Annual Average Power Generation: 520,918MWh

## Project Highlights

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**LESSO** Building a  
Solar-powered world.



Project Capacity

**120MW**

Zhaoqing, China

### Lengkeng Town Agrivoltaic Solar Project

Project Area: 1,333,333m<sup>2</sup>

Annual Average Power Generation: 123,376MWh

## Project Highlights

**LESSO** Building a Solar-powered world.



Project Capacity

**1MW** Kalimantan, Indonesia

**Rooftop power station built in Indonesia's new capital**

Annual Average Power Generation: 1,124MWh

## Project Highlights



Project Capacity

**1MW**

Saraburi Province, Thailand

**New community concentrated solar power generation system**

Annual Average Power Generation: 1,124MWh



Project Capacity

**236.6kW**

Yangon, Myanmar

**Yichang Factory Rooftop Solar Power Station**

Project Area: 1,224m<sup>2</sup>

236.6kWp PV + 2x100kW On-grid Inverters / 2x215.04kWh Batteries

Annual Average Power Generation: 257MWh

## Project Highlights

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Project Capacity

**275kW**

Egypt

### Egypt Solar Pumping Power Station

Project Area: 1,224m<sup>2</sup>

Annual Average Power Generation: 309MWh



Project Capacity

**500kW**

Phnom Penh, Cambodia

### Snowflake Ice Factory Solar Power Station

Annual Average Power Generation: 562MWh

## Project Highlights

**LESSO** Building a  
Solar-powered world.



Project Capacity

**112kW**  
North Shields, UK

### UMKC Newcastle Campus Integrated Solar and Energy Storage System

112kWp PV + 1x110kW On-grid Inverters / 215kWh Energy Storage System

Annual Average Power Generation: 117.6MWh

## Project Highlights

**LESSO** Building a  
Solar-powered world.



Project Capacity

**46.2kW**

North Hykeham, Lincoln, UK

**Morrisons Supermarket Solar Power Station**

2.2kWp PV + 2x5kW Hybrid Inverters / 3x10kWh Batteries

Annual Average Power Generation: 39MWh

## Project Highlights



Project Capacity

**2.2kW**

Pinner, Greater London, UK

### Residential Hybrid Solar Energy Solution Project

2.2kWp PV + 2x5kW Hybrid Inverters / 3x10kWh Batteries

Annual Average Power Generation: 1.7MWh



Project Capacity

**16.3kW**

Basildon, Essex, UK

### Residential Hybrid Solar Energy Solution Project

16.3kWp PV + 2x5kW Hybrid Inverters / 6x5kWh Batteries

Annual Average Power Generation: 12.7MWh

## Global Exhibitions



SNEC China



Solartech Indonesia



Germany Intersolar Europe



France ENERGAIA



Malaysia IGEM



ExpoSolar Colombia



The Solar Show KSA



Dhabi WFES

# THANK YOU!

 [www.lessosolar.com](http://www.lessosolar.com)



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