

LESSO Solar

SOLAR SOLUTIONS MANUFACTURER

CONTENTS

01 HERITAGE

02 INNOVATION

03 PROJECTS



HERITAGE

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

LESSOEnvisioning the better,
Building the future.**USD4.38 bil**

Annual Sales Revenue

40 years

Production Experience

30⁺

Production Bases

10000⁺

Product Categories

2200⁺

Patents Applied

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 4.9GW for solar panels and 1GW 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



4.9GW

Annual Production Capacity



50+ countries

Global Support Teams

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.

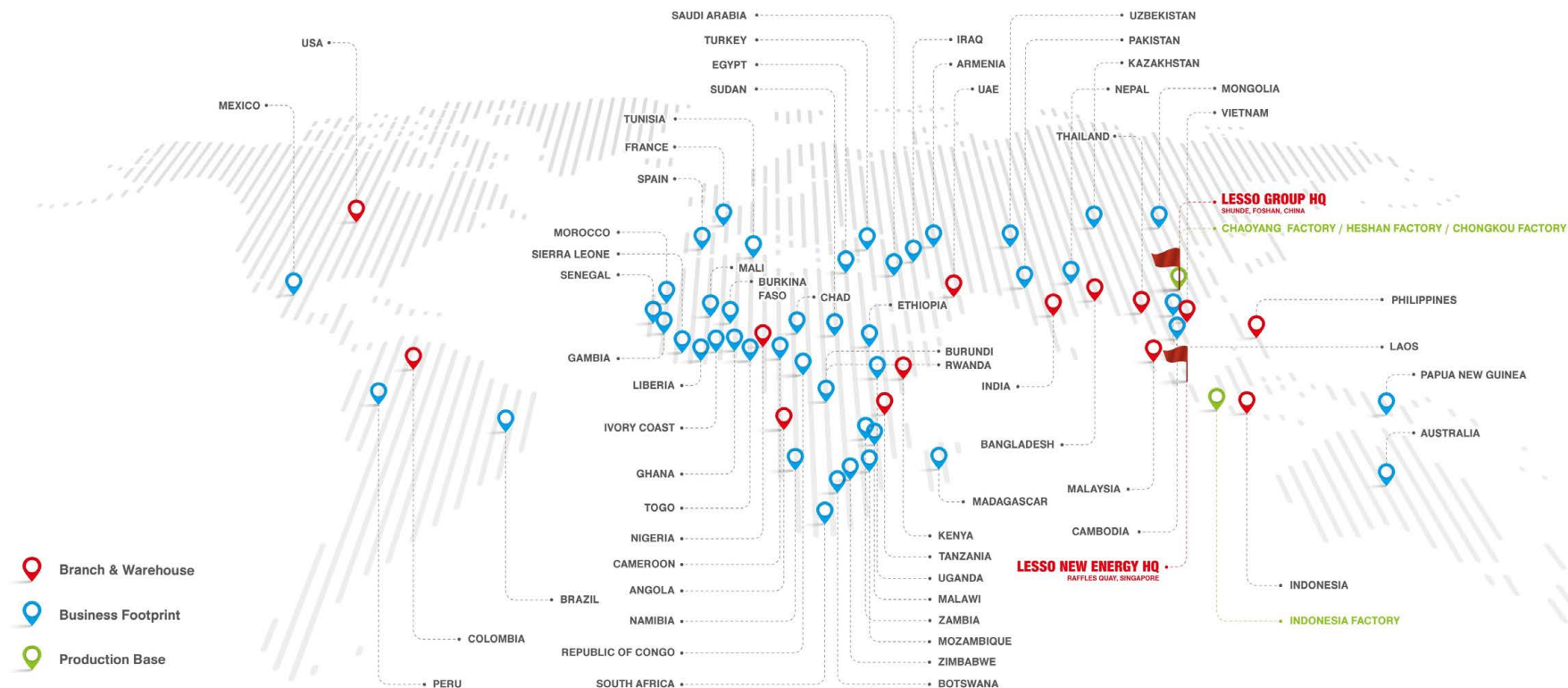
CHINA LESSO

FORTUNE CHINA TOP 500

NO.450



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

LESSO Building a
Solar-powered world.



Chaoyang Factory

Foshan, China

3.2GW in Solar Modules and Energy Storage



Heshan Factory

Jiangmen, China

1GW in Solar Cells



Chongkou Factory

Foshan, China

500MW in Solar Modules



Indonesia Factory

Central Java, Indonesia

1.2GW in Solar Modules

INNOVATION

Research & Development | Advanced Manufacturing | Quality Certification

Solar PV Modules | Smart Solar Solutions



**More than 1,000 scientific
researchers**

**28 national high-tech
enterprises**

Over 2,900 patents

**2 post-doctoral
workstations**

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

**5 China national
accredited laboratories
authorized by CNAS**



Advanced Manufacturing

- Strict Quality Control

- Digital Intelligent Manufacturing

- Management System Certification

- 24 Hours Operation

- Constant Temperature Workshop

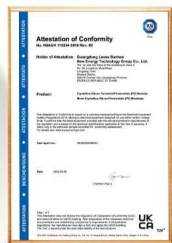


LESSO Building a Solar-powered world.



Quality Certification

LESSO Building a Solar-powered world.



Solar PV Modules

Advanced Automated Production,
High-Efficiency Solar Modules



Energy Storage Systems

Batteries & Inverters Included,
Reliable Power Supply



Project Investment and Partnership

Project Development & Financing,
Driving Green Transition



Engineering and Technical Support

End-to-End Engineering,
Optimized Energy Systems



LTH series

Release Unlimited Power, Leading Innovation

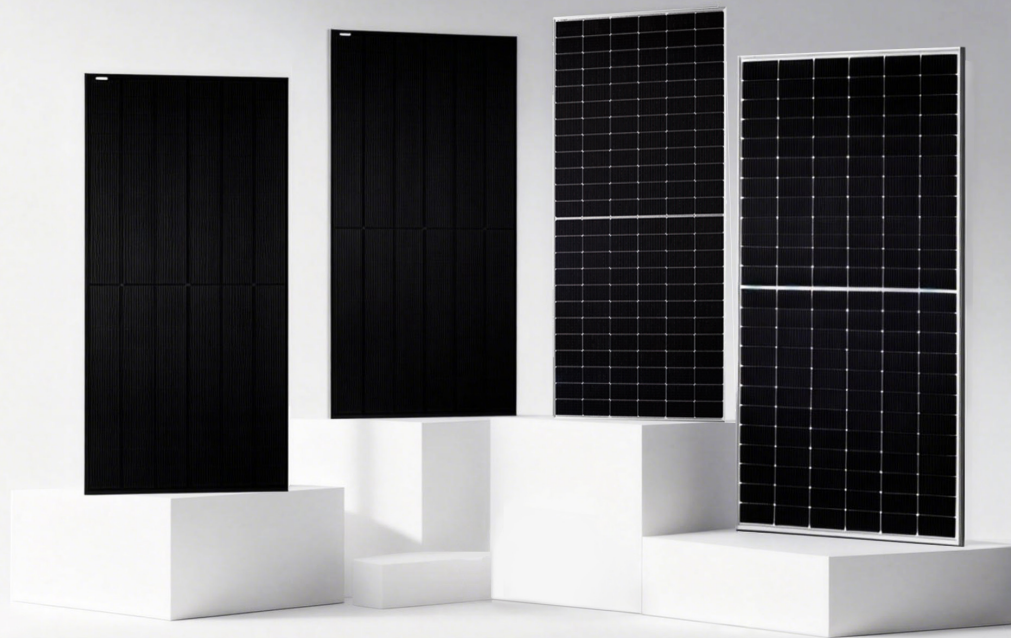
Power Range

430-730W

Maximum Efficiency

23.51%

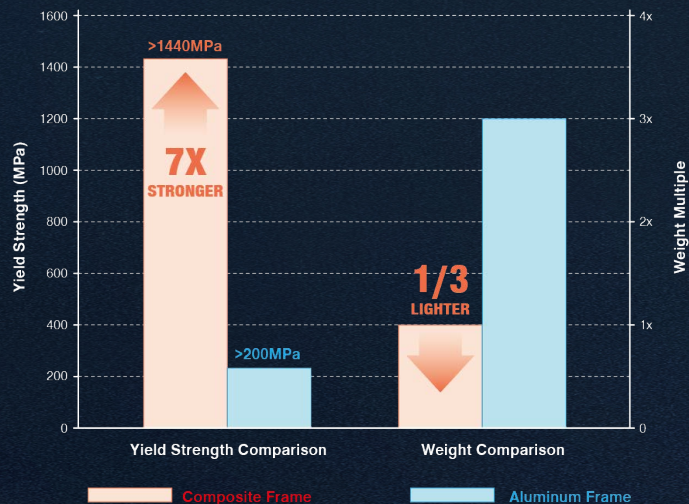
The LESSO Solar LTH Series leverages advanced TOPCon technology to achieve a maximum module efficiency of 23.51%. Featuring N-type cells with zero light-induced degradation (LID), this series ensures superior energy yield. With an annual degradation rate of just 1% in the first year and 0.4% thereafter, 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** m²/kW for module installation, fitting different installation scenarios easily.



Residential Solar Solution

LESSO Building a Solar-powered world.

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

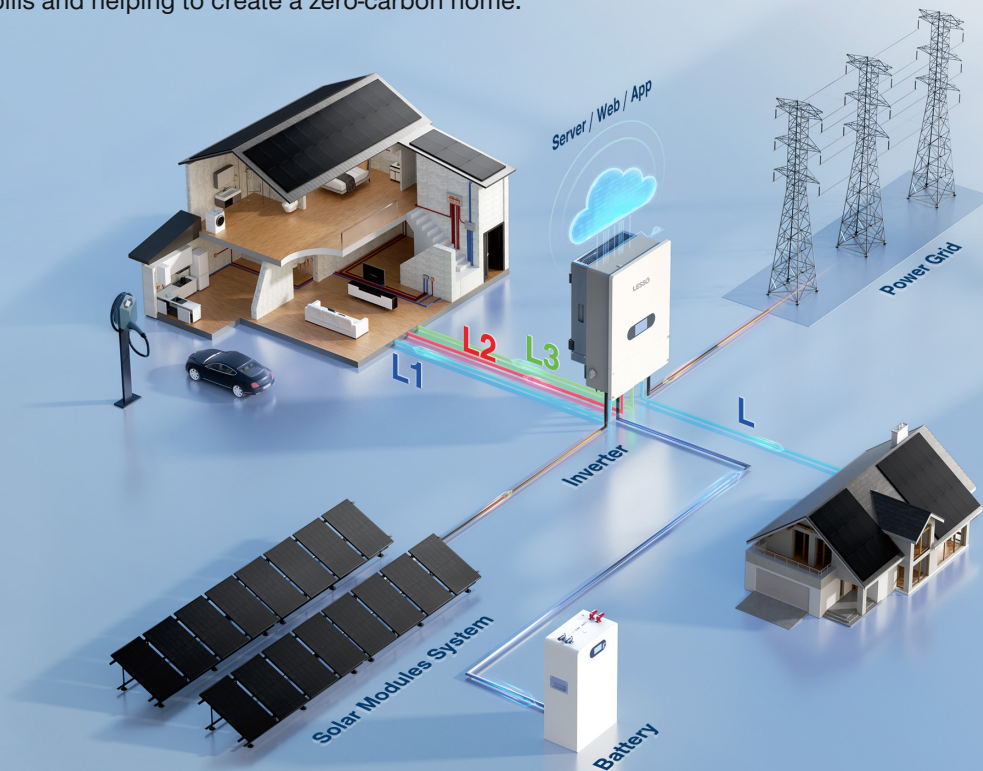


Protect environment

Hybrid Inverter
LEC Series



Battery
LHD-51F205L1C-C2



EV Charger series

LESSO Building a
Solar-powered world.



Easy installation and
easy maintenance



Support intelligent
power allocation



Powerful compatibility,
no model selection



AC EV Charger
LSACS-E



AC EV Charger
LGE-702A1C1C1-XC

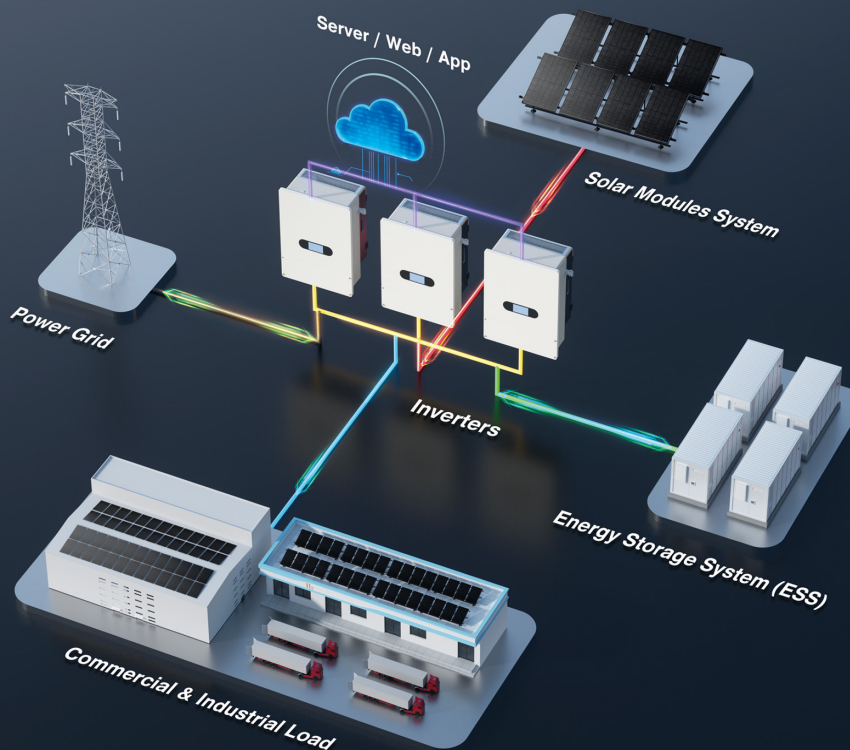


AC EV Charger
LGE-702A1C1C1-XA

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.



Typical Case:
PKEDA Ceramics Solar Power Station
Project Capacity: 8.56MW



Energy storage system

LESSO Building a
Solar-powered world.



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.

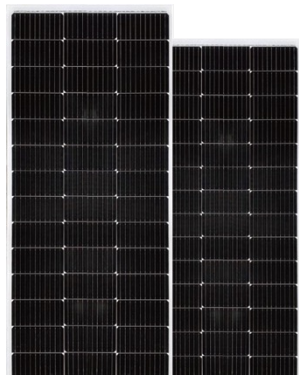
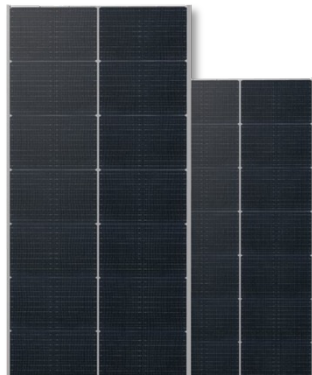
Heat insulation - reduction of building temperature

Save energy and carbon emissions

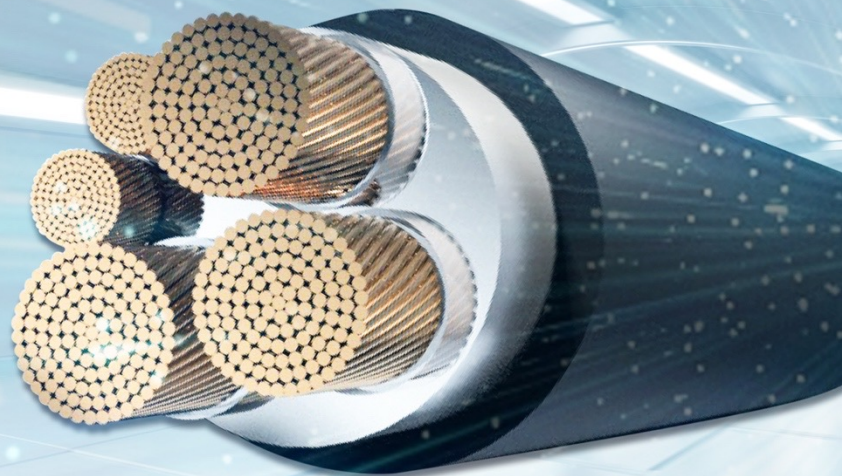
Increase usable floor space, Generate additional profit



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.





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.



ENGINEERING



PROCUREMENT



CONSTRUCTION



OPERATION

PROJECTS

Project Highlights | Global Exhibitions

Project Highlights

LESSO Building a
Solar-powered world.

Project Capacity

8.57MW Kajiado, Kenya

KEDA Ceramics Solar Power Station

Project Capacity

300MW Xinjiang, China

Karamay Desert Solar Power Station

Project Capacity

120MW Zhaoqing, China

Lengkeng Town Agrivoltaic Solar Project



Project Capacity

1MW

Kalimantan, Indonesia

**IKN President office Rooftop
Solar Power Station**



Project Capacity

1MW Saraburi Province, Thailand

**New community concentrated solar power
generation system**



Project Capacity

236.6kW Yangon, Myanmar

Yichang Factory Rooftop Solar Power Station

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



Project Capacity

275kW Egypt

Egypt Solar Pumping Power Station



Project Capacity

500kW Phnom Penh, Cambodia

Snowflake Ice Factory Solar Power Station

Project Capacity

3MW

Iksan City, South Korea

Iksan Ground-Mounted Solar Power Station

Project Capacity

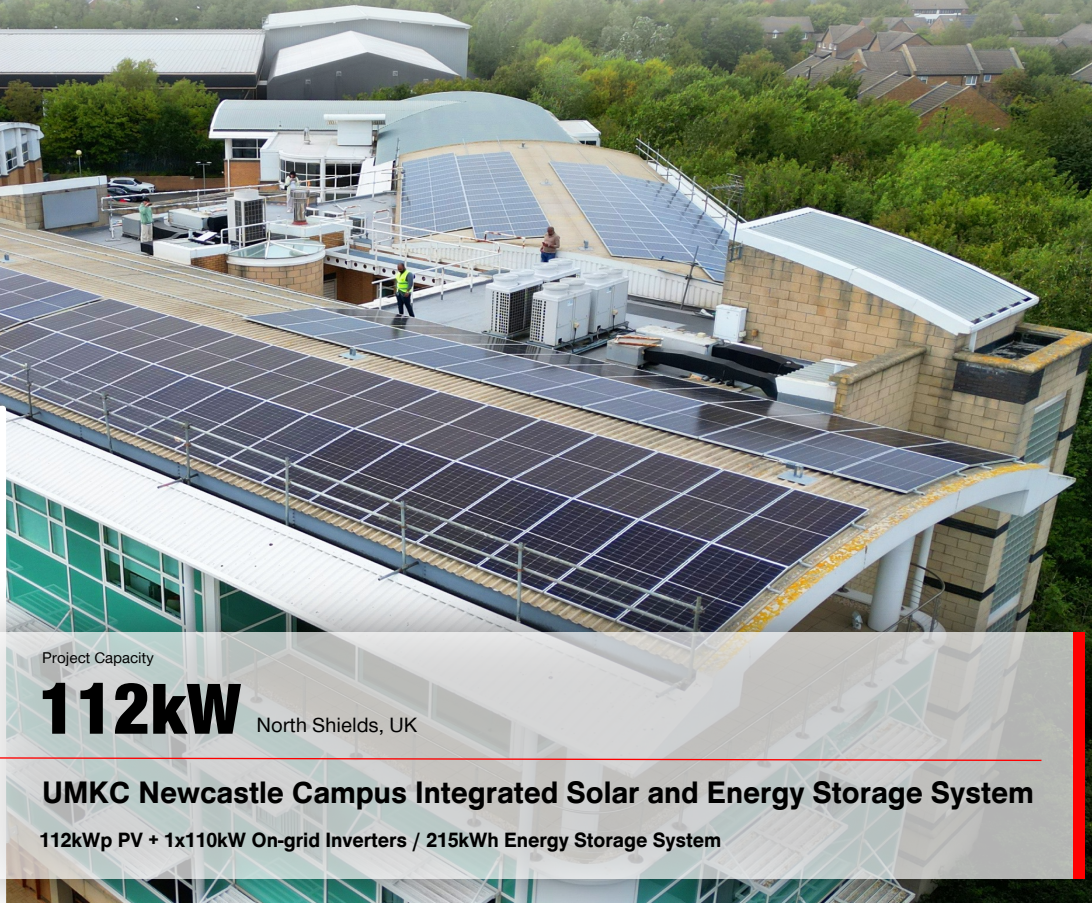
25kW

Jakarta, Indonesia

**Puskesmas Pulogadung Community Health
Center Solar Power Station**



**PUSKESMAS
PULOGADUNG**



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



Project Capacity

46.2kW

North Hykeham, Lincoln, UK

Morrisons Supermarket Solar Power Station

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



Project Capacity

2.2kW

Pinner, Greater London, UK

Residential Hybrid Solar Energy Solution Project

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



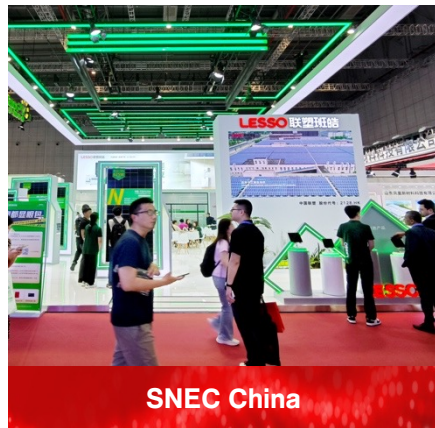
Project Capacity

16.3kW

Basildon, Essex, UK

Residential Hybrid Solar Energy Solution Project

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



SNEC China



Solartech Indonesia



Germany InterSolar Europe



France ENERGIA



Malaysia IGEM



ExpoSolar Colombia



The Solar Show KSA



Dhahi WFES

THANK YOU!



www.lessosolar.com



LESSO Solar

Lesso New Energy Global Trading Private Limited

One Raffles Quay, North Tower, #19-03, 48583 Singapore