



YOUR PARTNER IN
**SUSTAINABLE &
SMARTER ENERGY
SOLUTIONS**

www.johnsonsolar.com.my



COMPANY OVERVIEW

Johnson Solar (JS Solar) is a service leading provider of integrated solutions, products, and services in Malaysia's renewable energy sector. Established in 2018, the company is at the forefront of the solar PV industry, delivering innovative, reliable, and sustainable energy solutions to support a zero-carbon future.

With a strategic focus on operations, engineering, and project execution, JS Solar offers tailored solutions across multiple service categories, including Engineering, Procurement, Construction, and Commissioning (EPCC) services, Contracting services, and Operations and Maintenance (O&M) services for solar PV systems. The company's commitment to excellence and sustainability positions it as a trusted partner in the renewable energy landscape.

COUNT ON OUR EXPERIENCE

JS Solar brings over a decade of expertise in the renewable energy sector, earning a trusted reputation for delivering high-performance solar solutions. Since its establishment in 2018, the company has grown from modest beginnings into a leading industry player, known for innovation, reliability, and consistent project excellence.

JS Solar's experienced team leverages real-time data and advanced technologies to optimize energy systems, ensuring lower costs and greater efficiency. With expertise spanning from system design to ongoing management, JS Solar builds trusted partnerships that support long-term sustainability. The company plays an active role in powering Malaysia's shift toward a cleaner, carbon-free future.

OUR PURPOSE

MISSION

To deliver integrated, high-performance solar energy solutions that enable businesses and communities to achieve their sustainability and energy resilience goals.

VISION

A future powered by clean energy.

CORE VALUE

At JS Solar, the SOLAR core values drive innovation, foster community empowerment, and support the development of a sustainable future through clean energy solutions.



Sustainability

Committed to a greener future through clean energy solutions.



Opportunity

Empowering growth for the team, clients and communities.



Leadership

Setting the standard in innovation and renewable energy excellence.



Accountability

Delivering trust and transparency in every project.



Resilience

Adapting to challenges with determination and innovation.

These values serve as the foundation of the company's mission to accelerate the transition to a zero-carbon future, while generating value for clients and communities.

CORE SERVICES



EPCC Services

Service Positioning:

Comprehensive design, planning, engineering, procurement, construction, installation, testing, and commissioning of solar PV systems.

Target Customers:

Building owners and solar PV system investors.

Key Applications:

Rooftop solar PV systems for Commercial & Industrial (C&I) and residential buildings.

Highlight Projects:

Floating solar PV systems for university campuses. Battery Energy Storage Systems (BESS) for utility-scale solar projects in Kulim Hi-Tech Park.

Client Benefit:

Provides reliable, efficient, and innovative solutions that drive project success and maximise value.



Contracting Services

Service Positioning:

Specialized services for solar PV installations provided as a subcontractor.

Target Customers:

Main contractors for solar PV systems.

Key Applications:

Ground-mounted utility-scale solar PV systems.

Client Benefit:

Experienced subcontracting for safer, faster, and more organised project delivery.



O&M Services (Operations & Maintenance)

Service Positioning:

Routine inspections, cleaning, voltage testing, and timely repair or replacement of components for installed solar PV systems.

Target Customers:

Building owners.

Key Applications:

Rooftop PV systems for C&I and residential buildings.

Revenue Potential:

Newly established O&M department (October 2024) to facilitate long-term growth.

Client Benefit:

Ensures lasting system performance and stable energy output with prompt and accurate maintenance.

OUR SERVICES JOURNEY

1

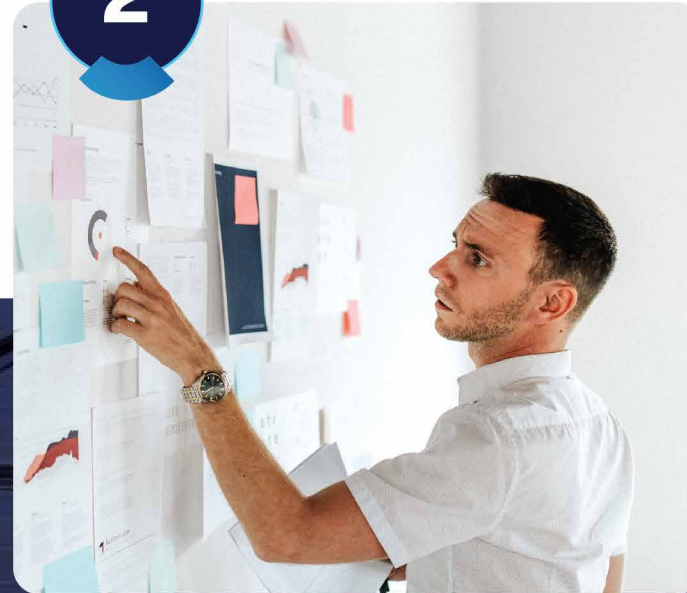


Collaborative Consultation

JS Solar forms strategic alliances with globally renowned energy equipment suppliers to ensure superior energy output and long-term system performance. By leveraging decades of industry expertise, the company delivers tailored, high-efficiency energy solutions that align with each client's specific needs.

Upon receiving an inquiry, JS Solar's dedicated technical consultants promptly initiate contact to collect essential site data and arrange an on-site assessment. A certified JS Solar Service Engineer will conduct a thorough evaluation to lay the groundwork for your customized energy strategy.

2



Strategic Planning

Following the site assessment, JS Solar provides clients with a comprehensive suite of planning tools, including:

- PPA Guidance & Feasibility Analysis
- Comprehensive Project Master Schedule
- Conceptual Design & Site Layout Optimization
- Solar Radiation, Shading, and Energy Yield Simulation

To further streamline the process, JS Solar manages all aspects of regulatory compliance, ensuring the smooth and timely approval of permits and applications from relevant authorities.

3



Design & Engineering

JS Solar's team comprises industry-leading experts in solar energy, dedicated to supporting every aspect of the design and engineering process. The company provides comprehensive services, including:

- Project Planning
- Detailed Site Layout Design
- Structural Site Layout Design
- Load Testing & Assessment
- Electrical Wiring Schematic
- Interconnection Study
- Equipment Planning
- Specification Sheets

4



Procurement

Upon design approval, JS Solar will proceed with the procurement of the necessary products to ensure optimal energy performance. The following services will be provided during this critical phase:

- Logistic Planning
- Supplier Evaluation
- Factory Audit
- Product Quality Inspection
- Shipping & Forwarding Services
- Duty Exemption Application

JS Solar ensure timely delivery of certified equipment while maintaining full transparency at every stage.

OUR SERVICES JOURNEY

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Construction

JS Solar takes pride in delivering projects that meet the highest standards and fully align with client requirements. The focus is to ensure a seamless and efficient process, providing clients with a hassle-free experience. As part of the construction services offered, the following is provided:

- Project Management
- A Detailed Action Plan
- Expertise in All Disciplines
- Construction Surveying
- Close Supervision & Control
- Quality Assurance Plan
- Safety Assurance Plan
- Labour Training
- Risk Assessment & Mitigation Plan

6



Testing & Commissioning

JS Solar validates every system through exhaustive performance verification, employing advanced diagnostic technologies to ensure peak operational performance and full compliance with industry regulations.

Key Processes:

- Testing & Verification of System Performance
- Conductor Integrity
- String Performance
- Inverter Start-up & Functionality
- System PR
- Utility Compliance Requirements

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Operation & Maintenance

JS Solar provides solar O&M services designed to meet the specific demands of clients, ensuring maximum system uptime and optimized energy production for the highest return on investment (ROI). The O&M services include:

- DC & AC Electrical Testing
- Thermal Imaging
- Functional Testing
- Mechanical Inspections

WHY JS SOLAR?

At JS Solar, the team understands that the true value of solar energy lies not only in installation but in the lasting peace of mind it brings. After observing widespread industry challenges — such as inconsistent post-installation support and preventable financial losses — founder Johnson made an unwavering commitment:

"Every client who trusts JS Solar deserves more than a system — they deserve a promise that spans decades."

Under Johnson's leadership, JS Solar has redefined what it means to be a true steward of solar energy. Whether

in the first year or the twentieth, clients never face uncertainties alone. With advanced monitoring technologies and a dedicated in-house Rapid Response Team, JS Solar takes full accountability for each system's performance — today, tomorrow, and for the long term.

The Company's Pledge to Clients and Partners:

"Every solar journey is viewed as a lifelong partnership. No issue is too small, and no timeline is too long. JS Solar doesn't just install solutions — it safeguards each client's future."



OUR ACCREDITATIONS



ISO 9001
(Quality Management System)



ISO 45001
(Quality Management System)



Construction Industry Development Board



Department Of Occupational Safety & Health



MyHIAU Mark & Directory



The Sustainable Energy Development Authority of Malaysia (SEDA Malaysia)



Energy Commission of Malaysia



Malaysia Ministry of Finance (MOF) Registered Company



Malaysia Photovoltaic Industry Association



Tenaga Nasional Berhad



JKKP / DOSH



Energy Commission Of Sabah

OUR LEADER



Johnson Chai

Founder

With over 15 years' worth of experience in the Solar Industry, Johnson has achieved many milestones in his career. As the Founder of JS Solar Sdn Bhd, Johnson graduated from Liverpool John Moores University with a major in Mechanical & Manufacturing Engineering in 2004.

In 2009, he joined Hanwha Qcells Malaysia as a team leader in Process Engineering. Johnson was nominated as Sales Manager for the SEA region at Hanwha Qcells Malaysia in 2011, his main roles included downstream development EPCC (Engineering, Procurement, Construction & Commissioning) alongside utility-scale project investment.

By 2013, fueled by a resolve to redefine trust in solar energy, Johnson took a bold leap. He founded "Johnson Solar" in 2018, a company bearing his name — a symbol of his unwavering commitment to integrity.

PROJECT REFERENCES



Solar For
Residential



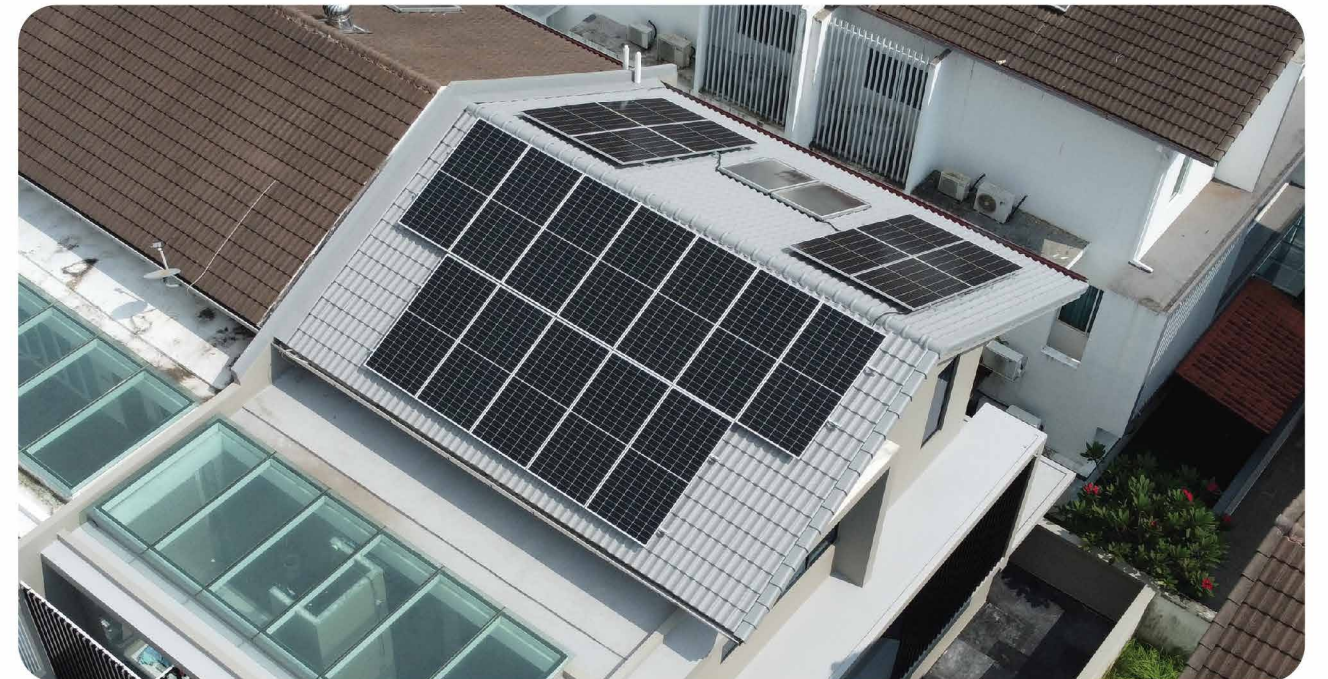
PROJECT REFERENCES



Solar For
Residential



PROJECT REFERENCES



PROJECT REFERENCES



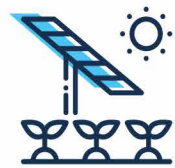
Solar For
Commercial & Industrial



PROJECT REFERENCES



PROJECT REFERENCES



Solar For Solar Farm

As a specialist in **utility-scale ground-mounted** solar PV systems, our company provides reliable and professional contracting services that prioritize system **stability, operational safety, and long-term performance.**

We are actively involved from the initial project conceptualization, design, and engineering through to detailed system planning, solar PV array configuration, balance of system integration, and grid interconnection. Our approach ensures stable system performance, high efficiency, and compliance with all local regulations and safety standards.

To date, we have successfully participated in utility-scale solar PV projects across Peninsular and East Malaysia. Among our key milestones, we proudly highlight the **Kulim Hi-Tech Park Solar PV Project (75MWp)**, a significant utility-scale development that ranks among the **Top 5 largest solar PV installations in Malaysia.** This project reflects our commitment to building stable, bankable, and high-return renewable energy systems.

2018



Gurun, Kedah
(65MWp)



Merchang, Terengganu
(37MWp)



Gambang, Pahang
(65MWp)



Gopeng, Perak
(13MWp)

2020



Marang, Terengganu
(37MWp)

2021



Tawau, Sabah
(7.8MWp)

2024



Kulim Hi-Tech Park
(75MWp)

2025



More projects coming!

Onwards

PROJECT REFERENCES

In our contracting projects, we collaborate with trusted subcontractors for site preparation, civil and structural work, cabling, mechanical & electrical integration, and on-site installation. All critical components and design oversight are managed directly by our in-house team to ensure performance excellence and system safety.

Our objective is building long-term value for investors, stakeholders, and communities. Our systems are engineered for **performance reliability, risk mitigation, and steady returns over the full project lifecycle.**

PROJECT REFERENCES



JS Solar has embarked on its first Battery Energy Storage System (BESS) project to complement its solar PV solutions and position itself at the forefront of Malaysia's renewable energy transition. This marks a strategic expansion of its core business model, which traditionally focused on EPCC, contracting, and O&M services for solar PV systems.

JS Solar's BESS Initiatives

In August 2023, JS Solar entered into a strategic collaboration agreement with Huawei and N.U.R. Distribution Sdn Bhd to embark on Megawatt-hour (MWh) BESS project to be installed in Kulim Hi-Tech Park (KHTP), Kedah. The objectives of this project are to demonstrate BESS capability to mitigate solar PV intermittency and to shift solar PV energy for on-peak delivery.

Project Objectives and Benefits

This BESS initiative is structured as a proof-of-concept project with clear functional and strategic goals:

- Demonstrate grid-level energy storage capabilities for solar PV energy.
- Mitigate solar power intermittency, improving reliability of renewable supply.
- Shift energy generated during daylight hours to periods of peak demand.
- Support decarbonisation and energy cost efficiency.

- Enhance grid stability with smarter load balancing using stored solar energy.

JS Solar's EPCC Scope for BESS

As the EPCC contractor, JS Solar is responsible for:

- Site assessment and feasibility studies.
- Engineering design and system integration.
- Procurement of batteries, inverters, switchgear, and balance-of-system components.
- Civil and electrical installation works.
- System testing and final commissioning.
- Regulatory approvals and utility coordination.



PROJECT REFERENCES

Strategic Significance

JS Solar's BESS project represents a strategic shift toward becoming a full-spectrum renewable energy provider. It enhances the reliability of solar energy by addressing intermittency and aligns with Malaysia's clean energy goals. The collaboration with Huawei and N.U.R. Distribution further strengthens JS Solar's position as an innovator in grid-scale energy solutions.

Future Outlook

The successful rollout of the BESS at Kulim Hi-Tech Park is expected to open doors for JS Solar in larger and more complex energy storage projects. It positions the company to deliver integrated solar-plus-storage systems, expand its revenue streams, and scale its presence in both local and regional clean energy markets.





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