



# Solar Made Easy

By  i2 ENERGY



# About Us.

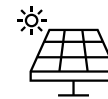
SOLAR MADE EASY

With decades of experience in delivering integrated engineering solutions derived from the group.

At **i2 Energy** we strive to provide a holistic solution catered to your energy needs powered by the sun.



Solar Made Easy

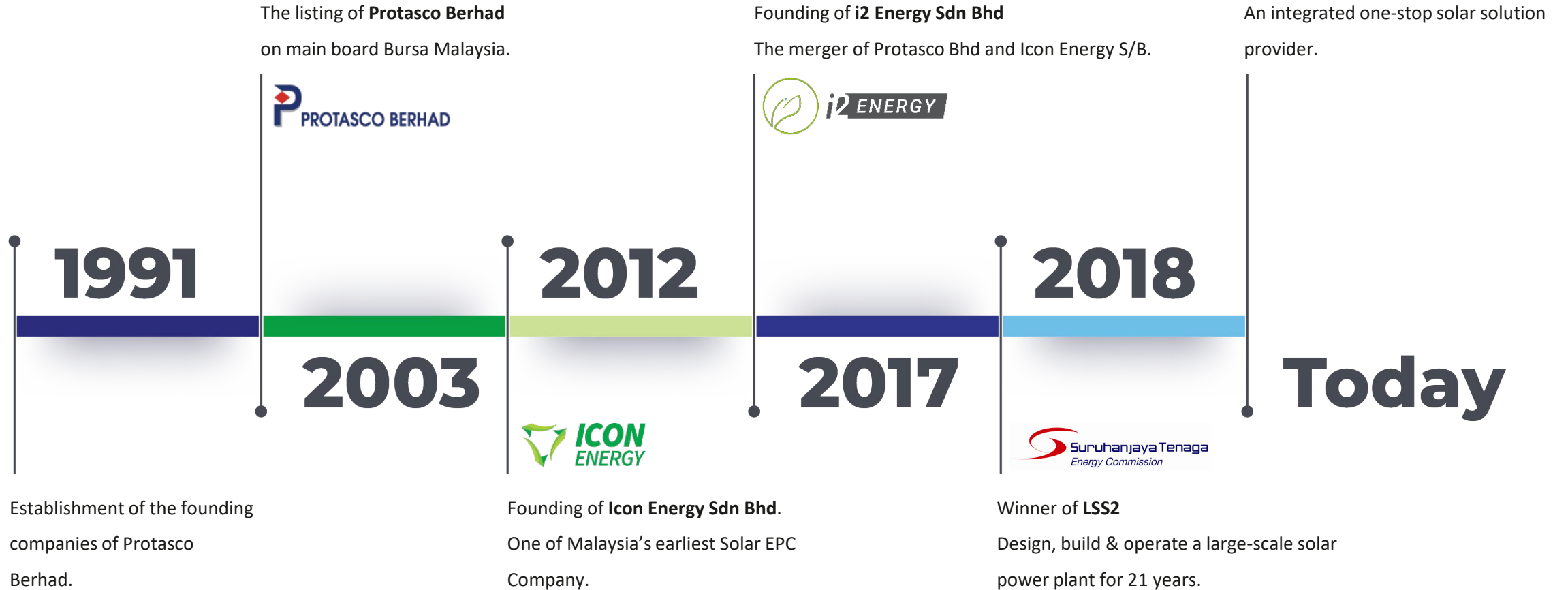


Over 128 projects  
across Malaysia.



# About Us.

Milestone



# Our Achievements.

**Over 128**

Solar PV Systems  
completed across  
Malaysia

**26,250MWh**

Green electricity  
injected into  
TNB Grid

**15,074,000kg**

CO2 Emission  
Avoidance

**31,512,000  
pounds**

Coal Saved

**350,000**

Equivalent of  
trees planted





## An Engineer at Heart

We are an establishment of in-house licensed solar, structural, and electrical engineers and technicians with years of collective experience in the industry.

## Safety in Mind

Our engineers and technicians are trained at Working at Height and underwent Site Safety Supervisory (SSS) training.



# Our Licenses & Affiliation.



SEDA-RPVSP-2022/036



MyHS00026/18



0120190725-SL029677



C115734



ST(TKL)WPKL/C/KE/01435/2020



Reg No: 3054556



MPiA 00160



DEPARTMENT OF OCCUPATIONAL SAFETY & HEALTH

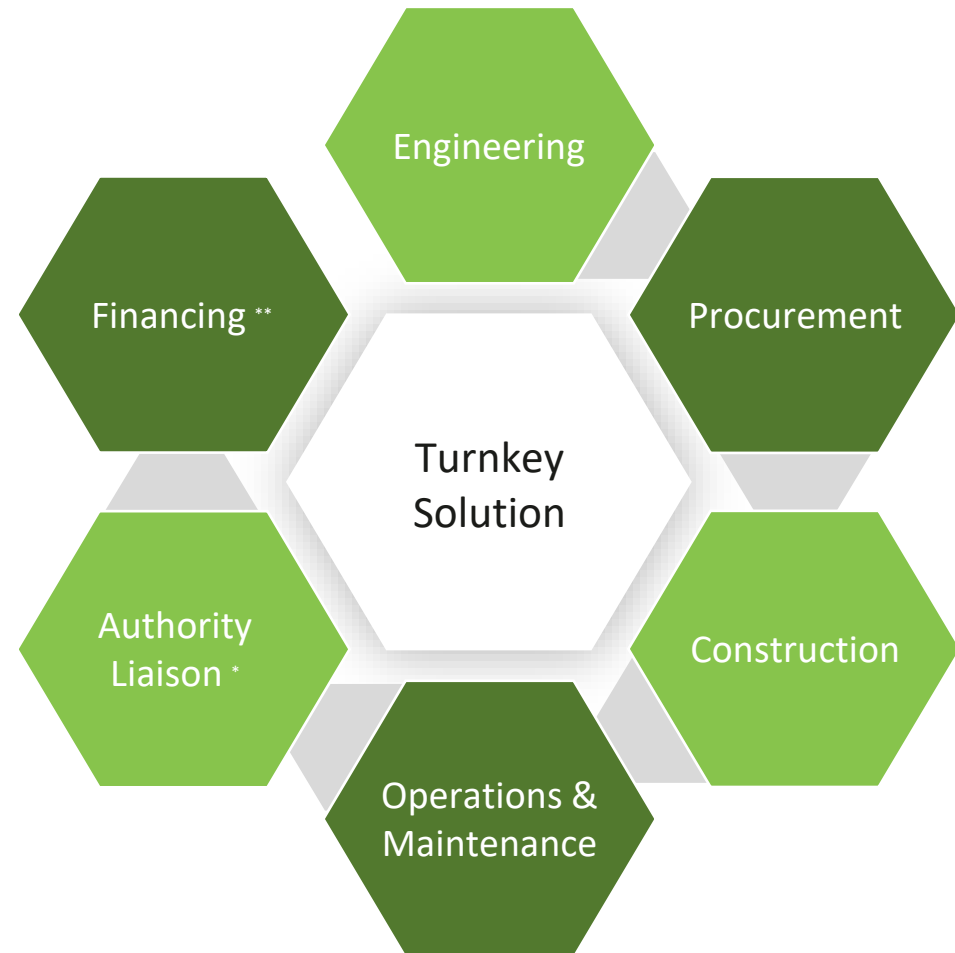
# Our Services.

Solar Made Easy

We provide a **complete turnkey solution** for all your solar energy requirement.

A hassle-free process to ensure that your solar system is optimized on performance from design stage till the end of its lifespan under our maintenance programme.

Maximising your return on investment and achieving your **ESG** goals.



\* Authority Liaison with relevant authorities & agencies: TNB, ST, SEDTA, MGTC and MIDA.

\*\* Financing option with our panel banks, with your preferred bank or a Zero CAPEX Model



### 1. Operations

Monitoring and reporting of the health, functionality and performance of your solar PV system.



 Your **Solar** Doctor.

Your solar PV system energy output and financial potential (savings) goes hand in hand, a system that is properly monitored and maintained is essential in seeing a positive return on your investment.

### 2. Preventive Maintenance

Periodic scheduled maintenance to ensure optimal solar PV system performance.



## Our **O&M** Services.

**Worry free** maintenance programme in place to allow your solar PV system to perform at its best throughout its 25 years lifespan.



### 3. Corrective Maintenance

To repair or replace any faulty parts that impedes the solar PV system performance.





# Track & Publish.

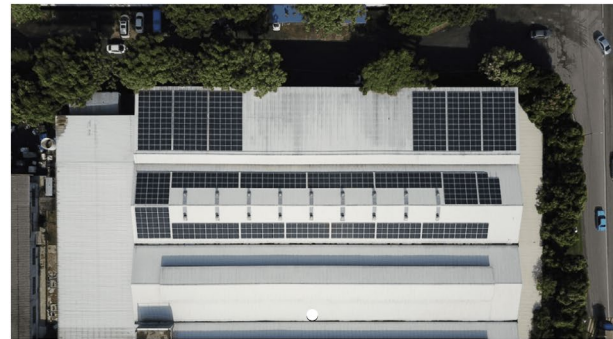
You may monitor and publish your solar PV system performance real time in energy savings, solar energy generation and environmental benefits.



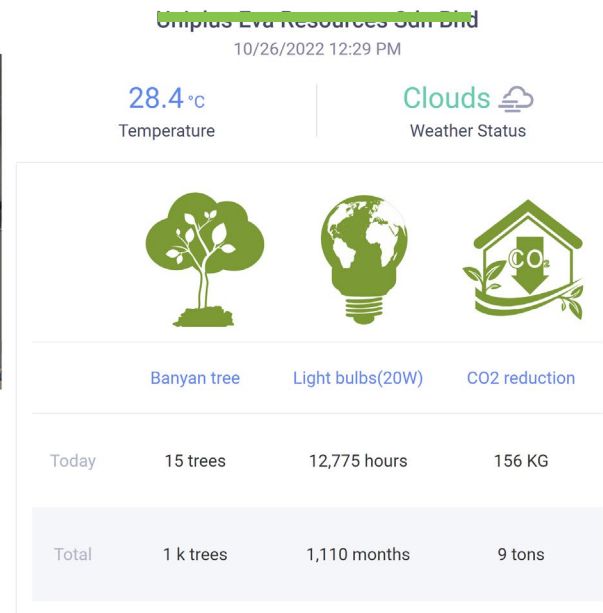
■ All Accessible Online.



256 kWh TODAY    11,121 kWh THIS MONTH    15 MWh TOTAL    190.645 kWp CAPACITY    STATUS



256 kWh TODAY    11,121 kWh THIS MONTH    15 MWh TOTAL    190.645 kWp CAPACITY    10/5/2022 START DATE    22 days OPERATION days





# Rooftop Structure Assessment

We provide comprehensive structural analysis services including as-built drawing development.



**Safety our Top Priority**

Every confirmed site shall undergo a detailed roof structure assessment to ensure that the roof structure is able to withstand the load of the solar PV system mainly the solar PV panels & mounting structure.

STA/P/21/16/R0/10/21

**16/21**

**IKRAM CENTRE  
for ENGINEERING  
SERVICES**

## **ROOF LOADING CHECK FOR THE PROPOSED NEW SOLAR SYSTEM AT ~~SRI KOTA~~ ~~RUBBER MANUFACTURING~~ ~~SDN BHD MELAKA~~**



### **ENGINEERING ASSESSMENT REPORT**

( October 2021 )

Prepared by



**IKRAM Premier Consulting Sdn Bhd**  
(An Associate Company of Kumpulan IKRAM Sdn Bhd)  
Structural Testing & Appraisal Department  
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43000 Kajang, Selangor Darul Ehsan, Malaysia.  
Tel: 603 8738 3681 or 3336 Fax: 603 8926 6291  
Email: fazila@ikram.com.my or ksvong@ikram.com.my

# Our Preferred Suppliers



BACKSHEET MONOCRYSTALLINE MODULE

PRODUCT: TSM-DE19  
PRODUCT RANGE: 535-560W

**560W**

MAXIMUM POWER OUTPUT

**0~+5W**

POSITIVE POWER TOLERANCE

**21.4%**

MAXIMUM EFFICIENCY

## SUN2000-100KTL-M1 Smart PV Controller



10  
MPP Trackers



98.8% (@480V)  
Max. Efficiency



String-level  
Management



Smart I-V Curve Diagnosis  
Supported



MBUS  
Supported



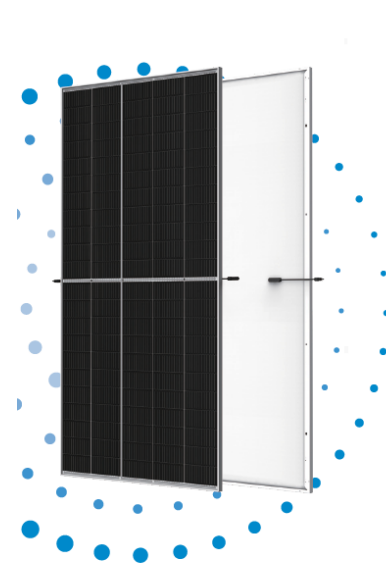
Fuse Free  
Design



Surge Arresters for  
DC & AC



IP66  
Protection



### High customer value

- Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance of System) cost, shorter payback time
- Lowest guaranteed first year and annual degradation;
- Designed for compatibility with existing mainstream system components
- Higher return on Investment



### High power up to 560W

- Up to 21.4% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection



### High reliability

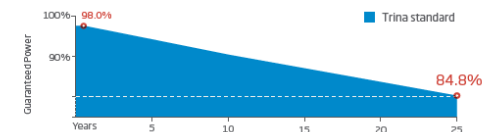
- Minimized micro-cracks with innovative non-destructive cutting technology
- Ensured PID resistance through cell process and module material control
- Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load



### High energy yield

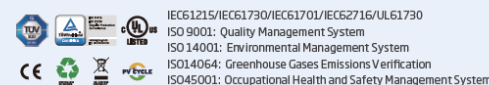
- Excellent IAM (Incident Angle Modifier) and low irradiation performance, validated by 3rd party certifications
- The unique design provides optimized energy production under inter-row shading conditions
- Lower temperature coefficient (-0.34%) and operating temperature

### Trina Solar's Backsheet Performance Warranty



\*\* Final selection of brand and model is subjected to availability upon project implementation.

### Comprehensive Products and System Certificates



Tier 1 Bloomberg (BNEF) Rated



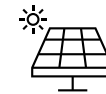


# Product Warranty.

All solar components installed by us comes with product warranty fulfilled by the manufacturer and/or its local distributor.

Product Warranty covers against defects during manufacturing.

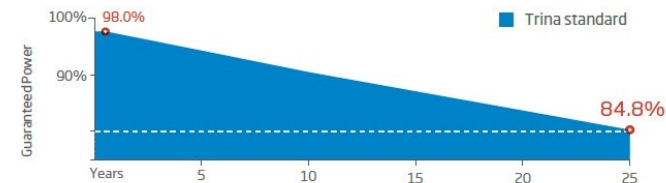
Performance Warranty guarantees the Solar PV Panel Power Output over the warranty period.



## Solar PV Panel

- 12-Years Product Warranty Period
- 25-Years Performance Warranty Period

Trina Solar's Backsheet Performance Warranty



## Solar PV Inverter

- 5-Years Product Warranty Period





MULTIPLE  
*Projects*

## Our Portfolio.

System Capacity of All Sizes.

We **Create** An Energy Platform to Harness the Sun.

Our clientele ranges from residential homes to large scale solar power plants.





TRAPO®



Radisson  
HOTELS & RESORTS



FREEPORT  
A'FAMOSA  
OUTLET





## Contact Us:

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