

AMAZING SOLAR SDN BHD | 199901009422(484322-X)

AMAZING SOLAR



A subsidiary of
K3 RESOURCES SDN BHD

AMAZING SOLAR

“ TOMORROW RENEWABLE ENERGY SOLUTIONS FOR TODAY ”



PORTFOLIO

COMPANY

AMAZING SOLAR SDN BHD

is a subsidiary of K3 Metal Service Centre Sdn. Bhd. Established in 2020 which offers total turnkey renewable energy solution and services for residential and commercial industrial businesses.



AMAZING SOLAR



VISION

Our vision is to make renewal energy solutions accessible for all businesses in the Asia Pacific (APAC) region, as well as residential in South East Asia region. We provide engineering procurements construction commissioning (EPCC) all-in-one residential, industrial and commercial renewable energy solutions. We even manufactured own mounting parts and backed by comprehensive maintenance service together with global technology partners and solutions providers.

AMAZING SOLAR

WHY SOLAR PV POWER?

From reducing your utility bill to preserving the environment, the benefits are endless. Now with attractive support schemes given to the industry, the best time to go solar is NOW!



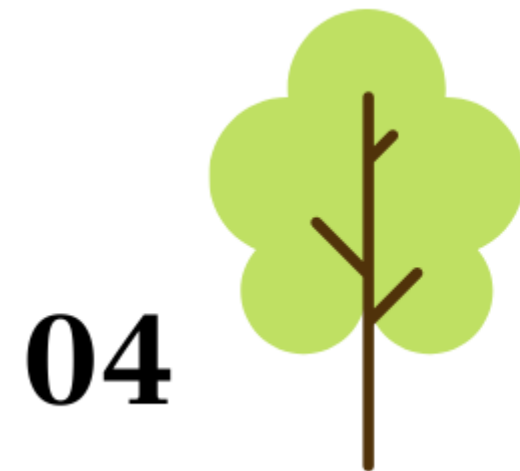
01
Reduce your
electricity bill



02
Hedge against
rising electric cost



03
Earn a great return
on investment



04
Save the earth with
renewable energy



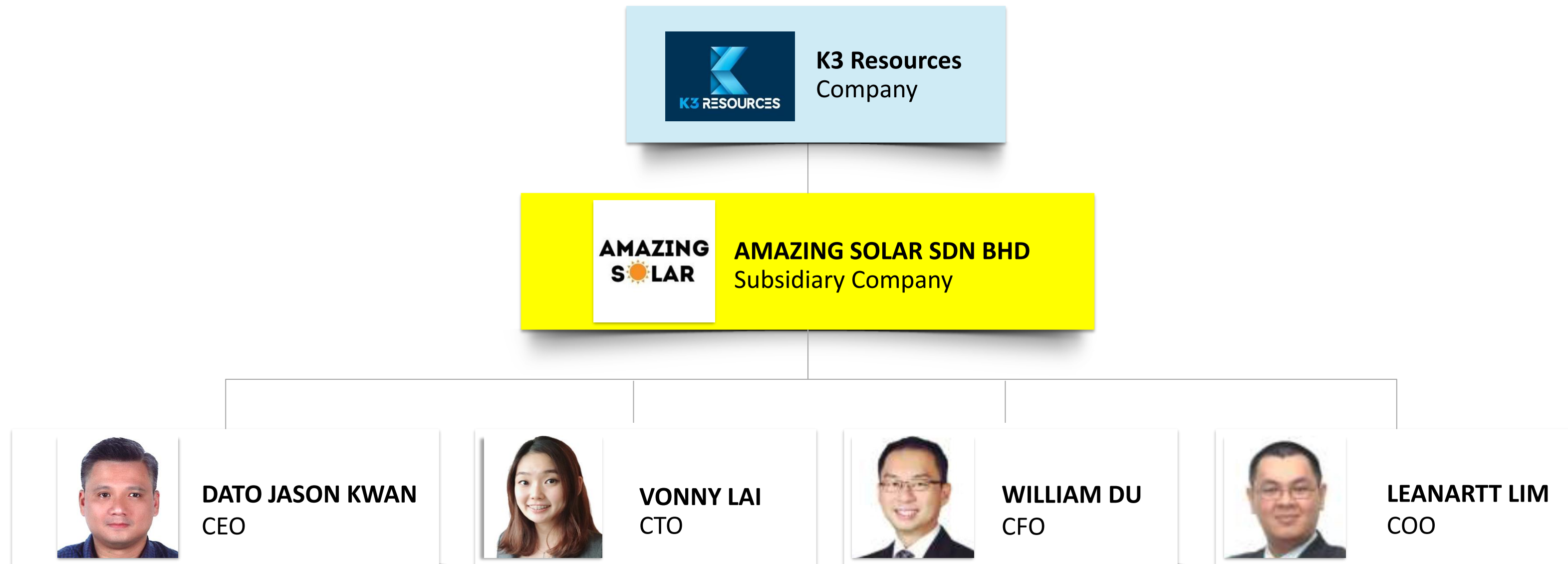
05
Double roof for
cooler building



06
Green Branding
for your business

Organization Chart

Amazing Solar Sdn. Bhd. (199901009422(484322-X)) is a subsidiary of K3 Metal Service Centre Sdn. Bhd. (486011-K)
Established in 2020 which offers total turnkey renewable energy solution and services for commercial & industrial businesses.



WHY AMAZING SOLAR?

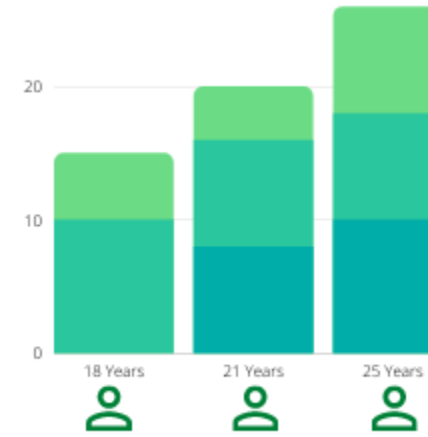
With Amazing Solar ZERO Capital Solution, your business will enjoy immediate bill saving with your own green energy generation.



01

ZERO Upfront Cost

Immediate saving with no upfront cost



02

Tariff & Tenure

Fixed tariff. Choose from 18, 21 or 25 Years



03

Billing & Support

Integrated billing with TNB
24 hours hotline support



04

Warranty

We ensure our equipment in a top quality condition throughout the contract period



05

Maintenance

Preventive annual scheduled maintenance, 24 hours continuous performance monitoring. Free throughout contract period.



06

Ownership

Full transfer of ownership at the end of contract period at no cost. Early contract exit option available.

SOLUTIONS

Be it for business, schools, or houses, Amazing Solar offers customized solutions to meet your needs

01



COMMERCIAL & INDUSTRIAL

- Tailor-made system to optimize cost savings
- Multiple financing plans with ZERO capital and options for outright purchase
- Flexible tariff and tenure period
- Maintenance covered throughout contract period

02



HOUSING DEVELOPERS

- Make your township to be solar-ready and lead a green lifestyle
- Personalized energy solution with efficient energy management package to enhance your property values

OUR SERVICES

With our full, hassle-free services, let us take care of your solar PV system so that you can enjoy bill reduction with peace of mind.



01

Free Consultation

- Conduct Preliminary Study
- Identify area & interconnection
- Propose Tariff
- Estimate Savings



02

Preliminary Study Presentation

- Amazing Solar will present to you
- Your team to indicate YES/NO
- Proceed with discussion/ negotiation agreements



03

Detail Study / Engineering Design

- On site detail study
- Finalize the tariff
- Finalize the contract period



04

Construction + O&M

- Installation period depending on time and size : 2Weeks – 2 months
- Free O&M by Amazing Solar throughout contract period

SOLAR ENERGY PURCHASE (SEP)

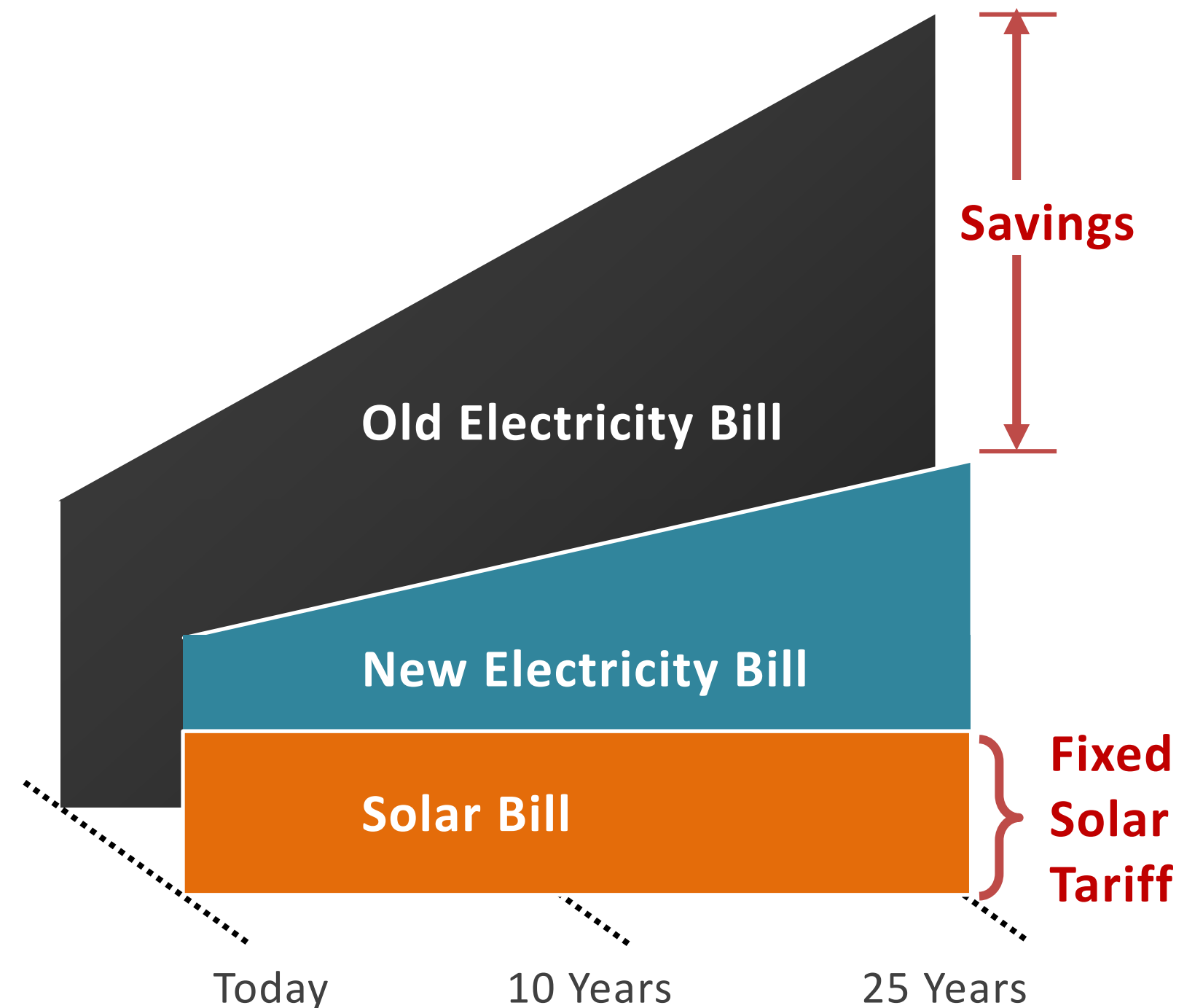
This is how SEP can let you enjoy NEM for bill saving at ZERO upfront cost

- 1 ZERO UPFRONT COST**
 Finance by Amazing Solar

- 2 BILL SAVINGS**
 Obtained via NEM and Solar Tariff is fixed throughout the contract duration

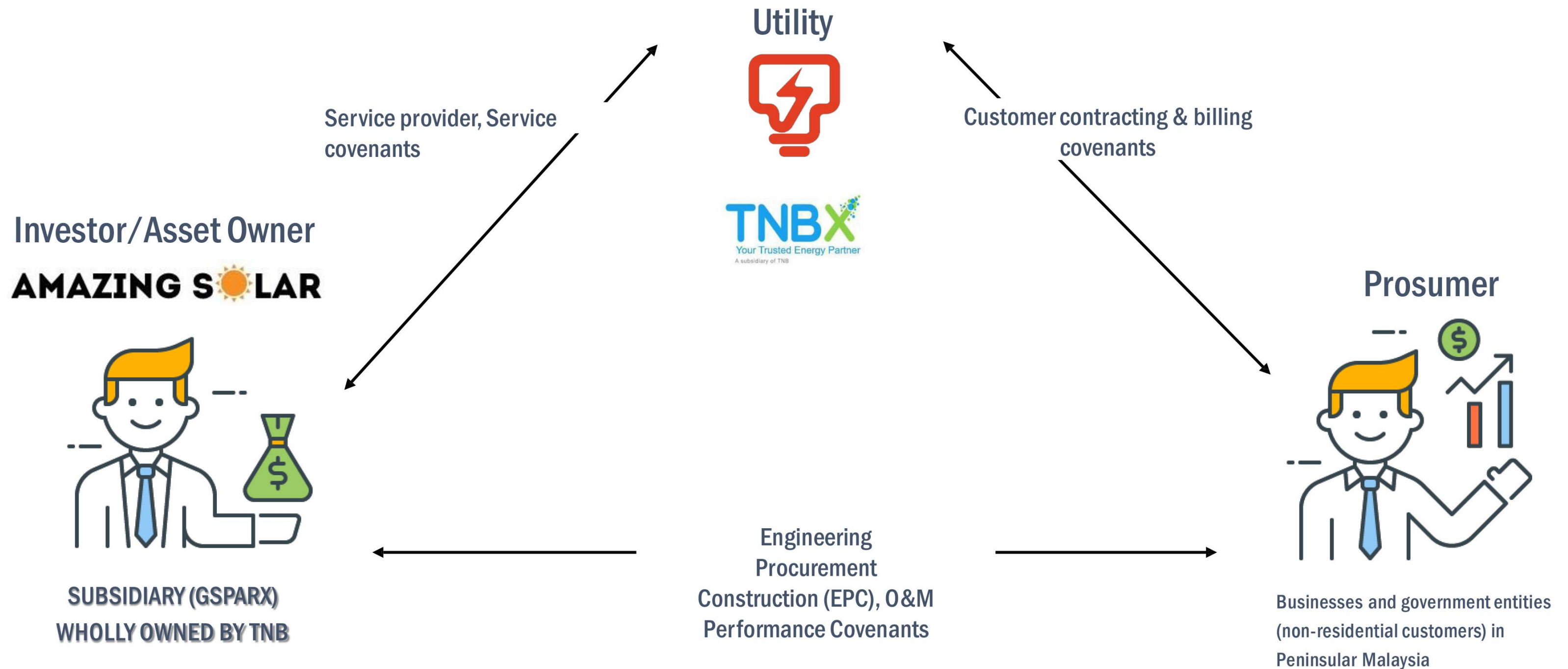
- 3 WORRY FREE & HASSLE FREE**
 Amazing Solar maintain, monitor and repair the system throughout the contract duration

- 4 BUILD AN ECO BRANDING**
 Products can be claimed as <<Powered by Clean Energy>> and encourage Corporate Social Responsibility (CSR).



AMAZING SOLAR

UNDERSTANDING SARE FOR SEP

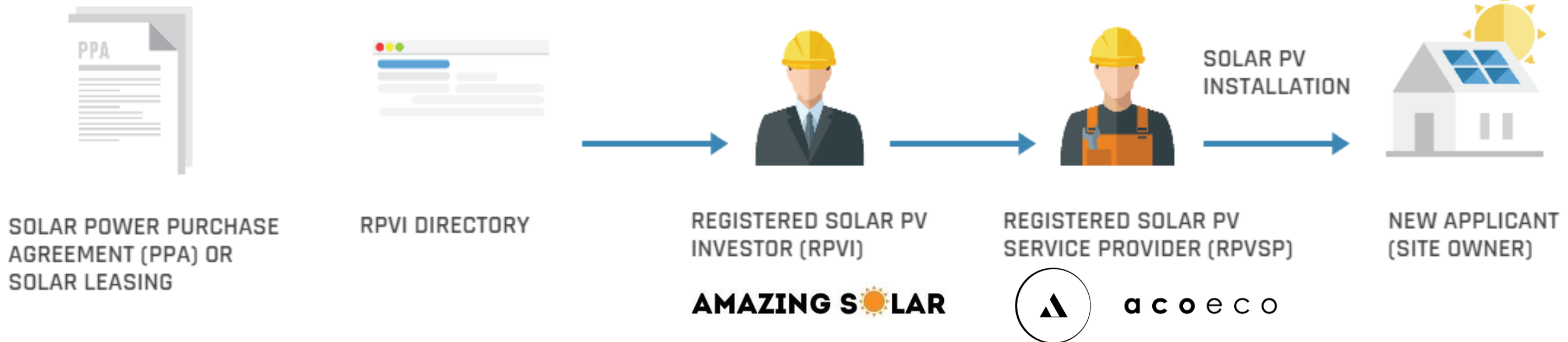


AMAZING SOLAR

UNDERSTANDING SPPA FOR SEP

DIRECT CONTRACT

- ▶ 2 parties agreement : Consumer & Investor
- ▶ Collection of payment between 2 parties



POWER PURCHASE AGREEMENT (PPA)

- ▶ Upfront payment is negotiable and based on agreement between investors and consumers
- ▶ Worry-Free Maintenance & Performance
- ▶ Payment in Energy (RM/kWh) - You will pay for solar energy generated (RM/kWh) from the PV system

- ▶ Longer payback period
- ▶ Installation done by the Investor's EPC contractors
- ▶ System is owned by the Investor

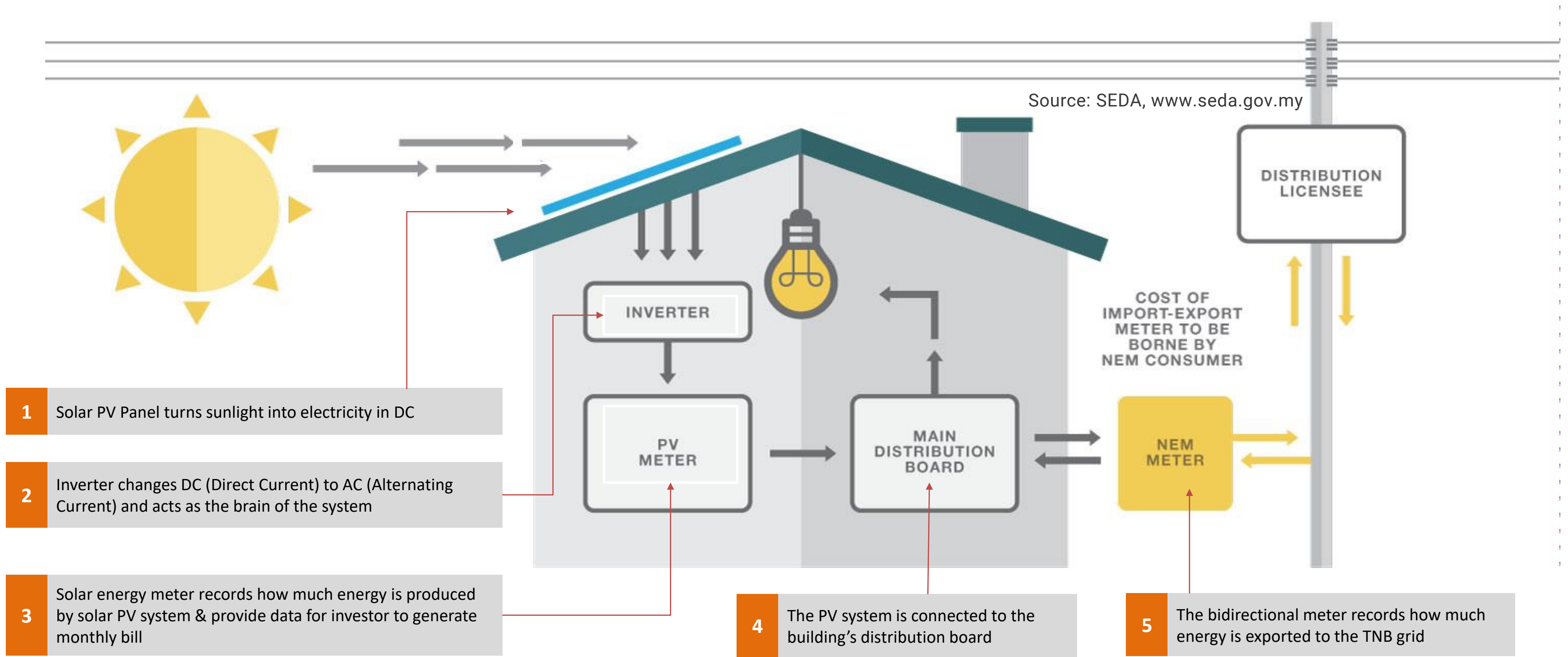
SOLAR PV : SPPA/SARE PROGRAM

RIDES ON NET ENERGY METERING (NEM) PROGRAM

<p>What is the Program about?</p>	<ul style="list-style-type: none"> • We generate Clean Electricity by installing Solar PV system right on your rooftops at ZERO CAPEX. Your solar solution will be funded by Amazing Solar (Investor). Solar energy will be generated and sold to prosumer at an agreed solar rate per kWh generated throughout the Power Purchase Agreement (PPA) or Supply Agreement with Renewable Energy (SARE) contract period.
<p>What is does it benefit Prosumer?</p>	<ul style="list-style-type: none"> • Enables electricity cost reduction. Solar Tariff is lower than grid tariff • Enables Prosumer to be green prosumer and leads by example
<p>How does it work?</p>	<ul style="list-style-type: none"> • Amazing Solar provide comprehensive system including solar PV panels, inverters and balance of system (BOS) • Supply of other BOS, installation, operation and maintenance by Amazing Solar
<p>Any cost incurred by Prosumer?</p>	<ul style="list-style-type: none"> • Prosumer does not pay for any CAPEX & OPEX cost • Amazing Solar to invest and maintains the system throughout the contract period
<p>What are obligations of Prosumer?</p>	<ul style="list-style-type: none"> • Prosumer sign contracts (PPA) with Amazing Solar • Prosumer make payment for the energy generated from Solar PV system through the monthly bill from Amazing Solar • Prosumer ensures Amazing Solar asset are safe within the building compound from theft and/or vandalism • Inform Amazing Solar if the assets are damages due to any catastrophic event such as hurricanes, strong winds, lightning strike and etc.

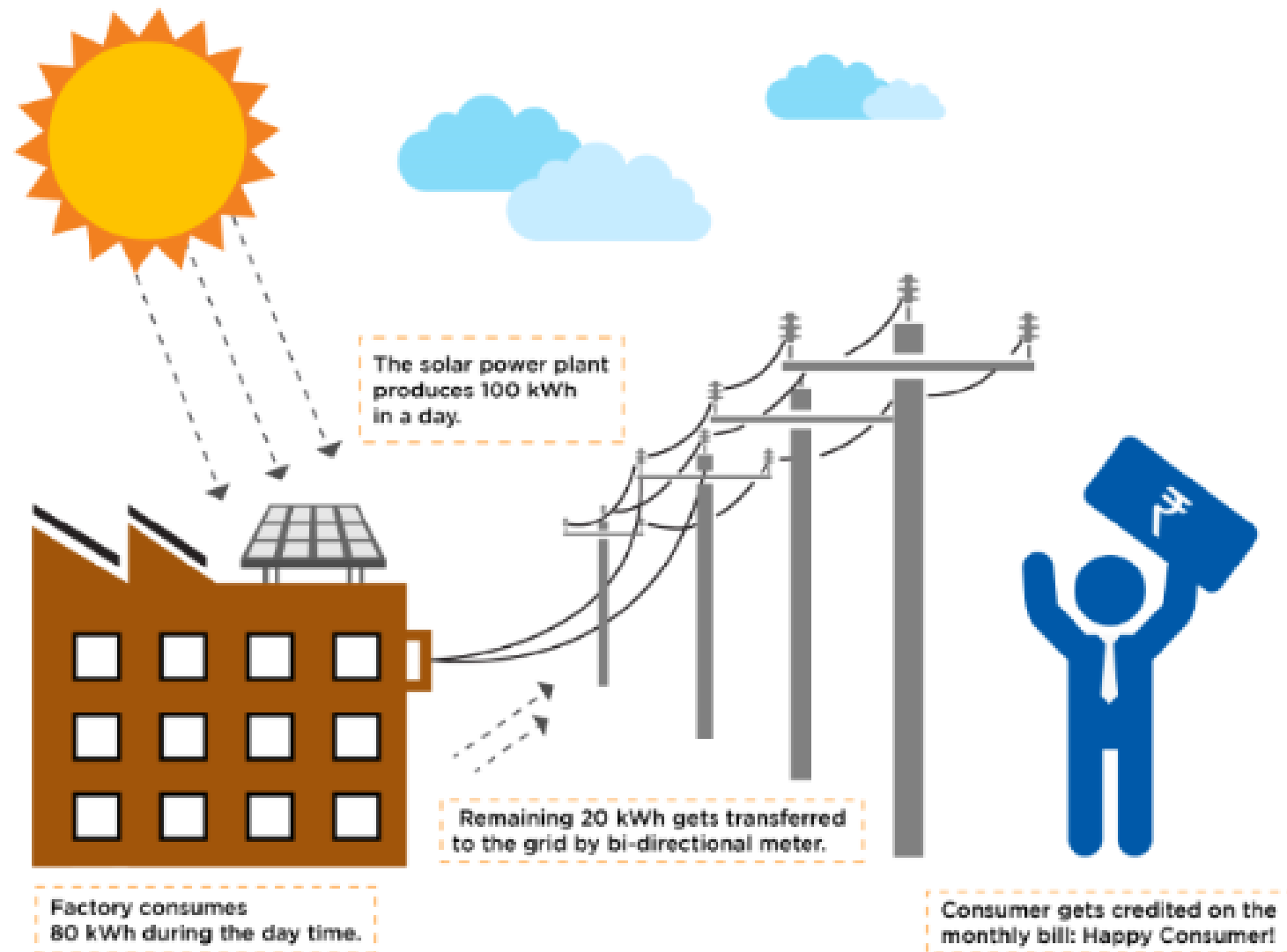
UNDERSTANDING NEM

Under NEM, you can sell excess solar energy to TNB and gets energy credit to offset the bill



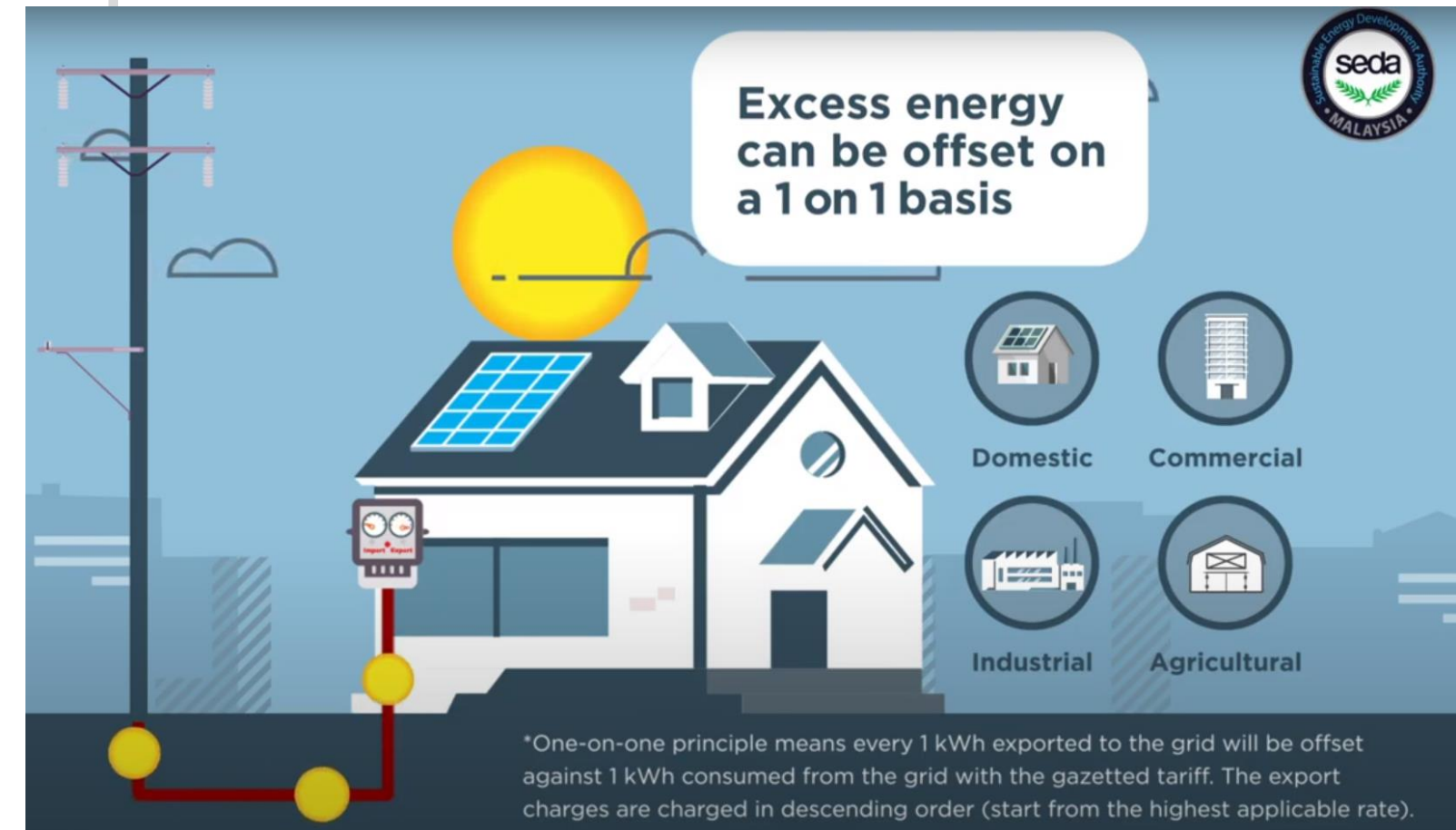
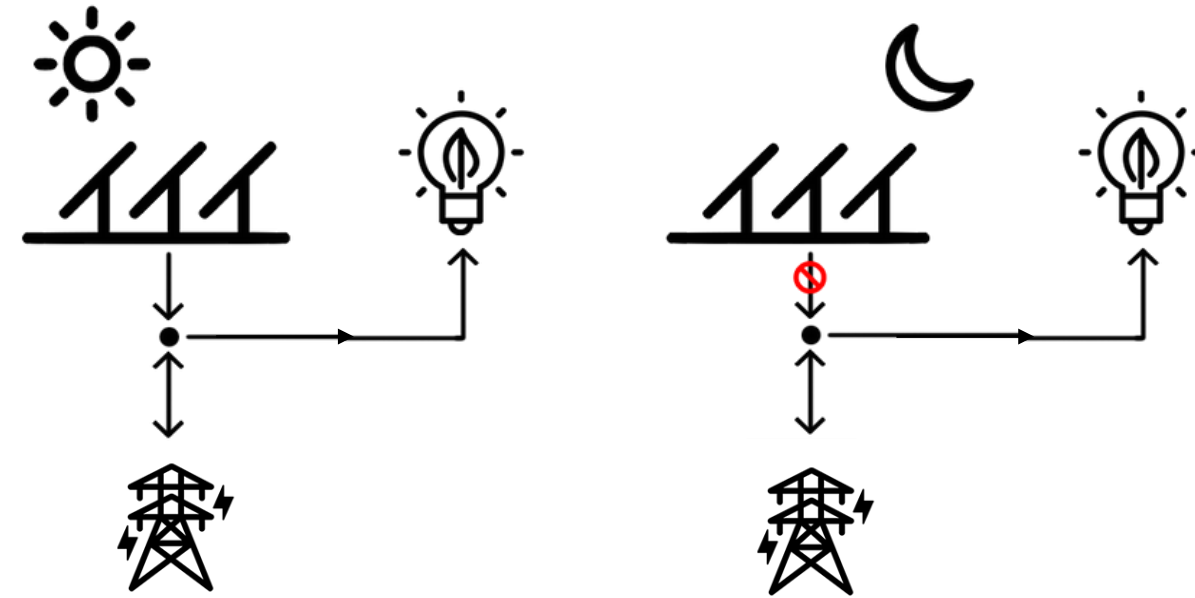
AMAZING SOLAR

NET METERING: HOW IT WORKS




Consumer can use credits to buy Power during night.
(Credits can be use to contra the bill
- but it cannot convert to cash)

NET ENERGY METERING -POLICY



INTEGRATED TNB BILL (SARE)

Under this program, you pay only to TNB where the bill contains solar energy bill



ENERGY STATEMENT
<http://www.mytnb.com.my>

No. Akaun : 210116213222
Tarikh Penyata : 26.03.2019
No. Invois : 102349957

Ringkasan Akaun Anda


Bayaran Akhir	RM250.00	Terima Kasih.
Tunggakan	RM6.00	Bayaran Segera.
Caj Semasa	RM147.48	
Penggenapan	RM0.02	
Jumlah Bil	RM153.50	Bayar sebelum 25.04.2019

Ringkasan Caj Semasa

Perihal Perkhidmatan	Caj (RM)
Utility Import 175.00 kWh	RM38.15
Solar Energy 169 kWh	RM109.33
Service Tax (6%)	RM0.00
Jumlah Caj Semasa	RM147.48

Aras 13, Wisma TNB, No 19, Jalan Timur, 46200 Petaling Jaya, Selangor
Nombor Pendaftaran ST W10-1808-31022372

SUMMARY OF ENERGY STATEMENT



BIL ELEKTRIK DAN INVOIS CUKAI

No. Kontrak : 6001123940
Deposit : RM250.00

Jenis Bacaan : Bacaan Sebenar

Tempoh Bil : 24.02.2019 - 23.03.2019 (28 Hari)
Tarif : A:Kediaman

Blok Tarif (kWh)	Blok Prorata (kWh)	Kadar (RM)	Amaun (RM)
200	175.00	0.2180	38.15
Jumlah	175.00		38.15

Keterangan	Tidak Kena ST	Kena ST	Jumlah
Kegunaan (kWh)	175.00	0.00	175.00
Kegunaan RM	RM 38.15	0.00	38.15
Kegunaan Bulan Semasa	RM 38.15	0.00	38.15
Service Tax (6%)	RM	0.00	0.00
Caj Semasa	RM	38.15	38.15

No. Meter	Faktor Meter	Bacaan Meter		Kegunaan	Unit
		Dahulu	Semasa		
EDM105180101554/2	1.00000	0.00	175.00	175.00	kWh
EDM105180101554/2	1.00000	0.00	0.00	0.00	kW
EDM105180101554/2	1.00000	0.00	100.00	100.00	kWh

TERIMA KASIH
Kerana Membayar Dalam Tempoh 30 Hari
TNB Careline 1-300-88-5454

Bil: OPC

Untuk maklumat bil dan bayaran terdahulu, sila layari - <http://www.mytnb.com.my> atau hubungi Hotline TNB 1 300 88 5454

Untuk gangguan bekalan atau kerosakan lampu jalan TNB sila hubungi melalui telefon/SMS: 15454

Untuk pertanyaan, sila hubungi: TNB MELAKA BARAT ARAS G, JLN BANDA KABA 75000 MELAKA
Tel : 06-2828544
Fax : 06-2835010

Subsidi Bahan Api Dibayari Kerajaan Persekutuan RM 2.36

kWTBB - Kumpulan Wang Tenaga Boleh Baharu

ICPT - Pelepasan Imbangan Kos Penjanaaan

Maklumat Tambahan: Angkadar Kuasa : 0.87


Bayaran melalui cek sah setelah perjelasan cek oleh bank

Service Tax (ST) 6% bagi penggunaan Domestik melebihi 600 kWh.

KW LOW
1020, JALAN BUNGA,
TAMAN BUNGA, AMPANG
68000 SELANGOR

Aras 13, Wisma TNB, No 19, Jalan Timur, 46200 Petaling Jaya, Selangor
Nombor Pendaftaran ST W10-1808-31022372

CONVENTIONAL ENERGY BILL



BIL TENAGA BOLEH BAHARU

No. Kontrak : 7009162447

BIL TENAGA BOLEH BAHARU SEMASA

Tempoh Bil : 01.01.2019 - 23.03.2019
Bilangan Hari : 82 Hari
Jenis Bacaan : Bacaan Sebenar

KETERANGAN JUMLAH TENAGA BOLEH BAHARU SEMASA

Keterangan	Kegunaan(kWh)	Kadar(RM)	Jumlah(RM)
Kadar Penjanaaan Tenaga Boleh Baharu	169.00	0.3100	52.39
Pembayaran Minimum Tenaga Boleh Baharu			56.94
Ansuran (Modal Pendahuluan)			0.00
JUMLAH (RM)			109.33

MAKLUMAT PEMBELIAN TENAGA SOLAR

Nama SP/Pelabur : GSPARKS	Tempoh Baki Kontrak : 2 Tahun & 9 Bulan
No. Tel. Pengguna : 0167220123	Kod Tarif : SEP
Emel Pengguna : jurutypist@gmail.com	Kadar Tarif : RM0.3100
Kapasiti : 200kW	Tarikh Mulatugas : 01.01.2019
Penyambungan : 230 V	Baki Ansuran (RM) :
Teknologi : SOLAR	Baki Ansuran (Bulan) :

BACAAN PEMBELIAN TENAGA SOLAR SEMASA

No. Meter	Faktor Meter	Bacaan Meter		Kegunaan	Unit
		Dahulu	Semasa		
M 6004102123	1.00000	0.00	169.00	169.00	kWh
Jumlah Pembelian Tenaga Solar				169.00	kWh

TERIMA KASIH
Kerana Membayar Dalam Tempoh 30 Hari
TNB Careline 1-300-88-5454

BIL: OPC SEP

Untuk maklumat bil dan bayaran terdahulu, sila layari - <http://www.mytnb.com.my> atau hubungi Hotline TNB 1 300 88 5454

Untuk gangguan bekalan atau kerosakan lampu jalan TNB sila hubungi melalui telefon/SMS: 15454

Sebarang pertanyaan, sila hubungi: TNB MELAKA BARAT ARAS G, JLN BANDA KABA 75000 MELAKA
Tel : 06-2828544
Fax : 06-2835010

KW LOW
1020, JALAN BUNGA,
TAMAN BUNGA, AMPANG
68000 SELANGOR

Aras 13, Wisma TNB, No 19, Jalan Timur, 46200 Petaling Jaya, Selangor
Nombor Pendaftaran ST W10-1808-31022372

SOLAR ENERGY BILL

© 2020 Amazing Solar Proprietary Information. Private & Confidential. All Rights Reserved.

AMAZING SOLAR



EQUIPMENTS

FOR SOLAR PV SYSTEM

AMAZING SOLAR

SOLAR PV PANELS

(MONO PERC 535W HALF-CELL)



Higher output power



Lower LCOE



Less shading and lower resistive loss

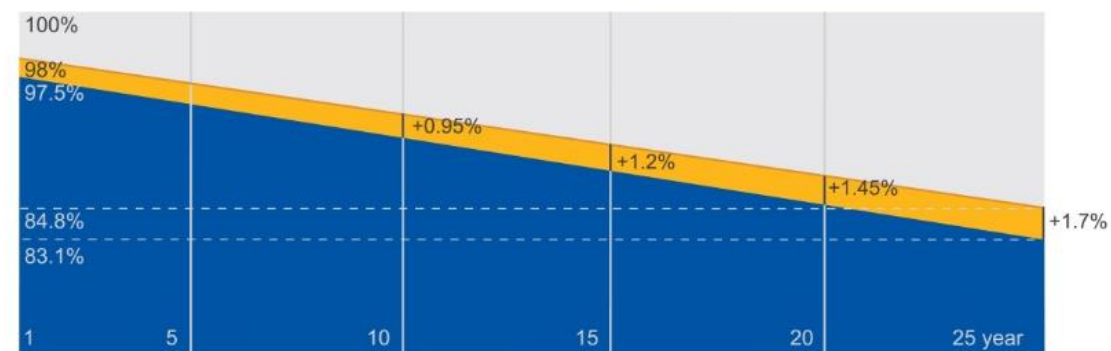


Better mechanical loading tolerance

Superior Warranty

- 12-year product warranty
- 25-year linear power output warranty

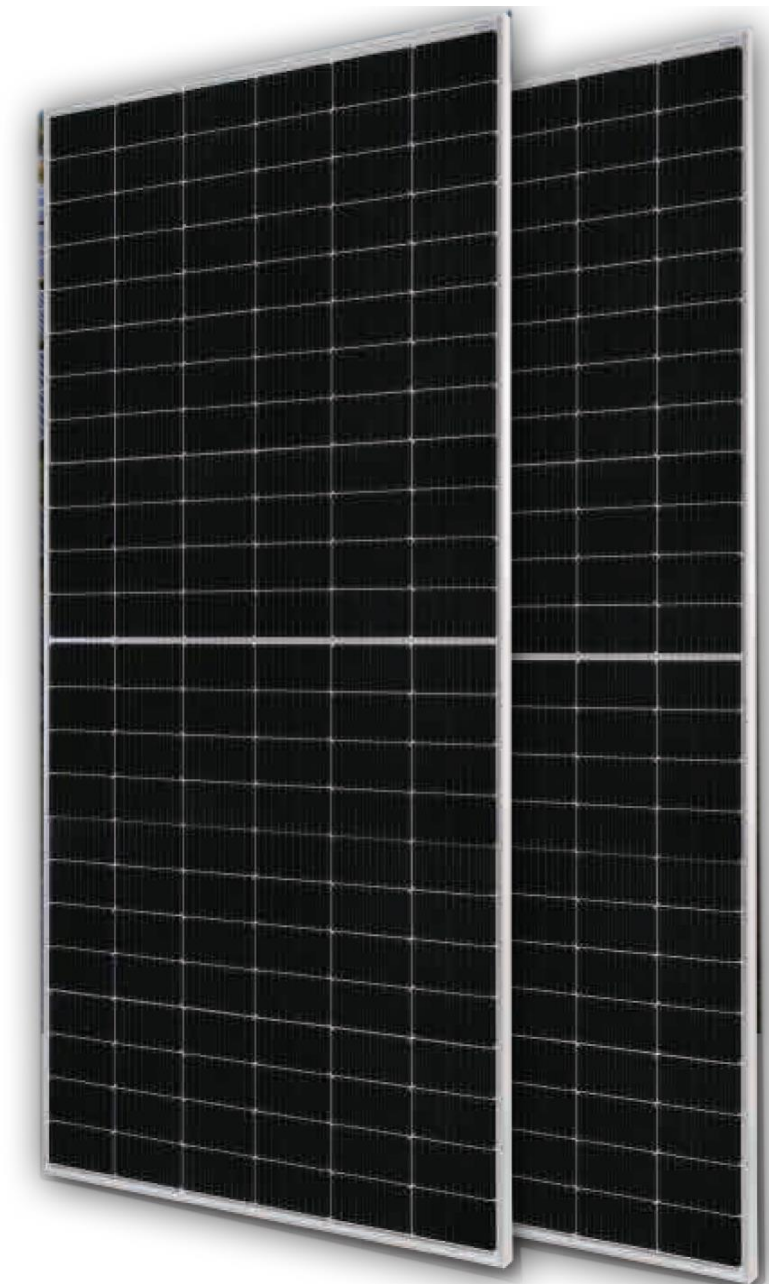
0.55% Annual Degradation Over 25 years



■ New linear power warranty ■ Standard module linear power warranty

Comprehensive Certificates

- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules – Guidelines for increased confidence in PV module design qualification and type approval



Mono 550W MBB Half-cell Module
JAM72S30 525-550/MR Series

Introduction

Assembled with 11BB PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.

AMAZING SOLAR

Mounting Structure

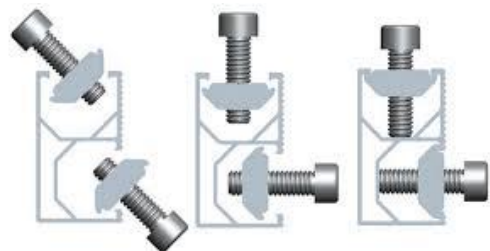
(Metal Roof)



Non penetrating standing seam roof system

Headache-free mounting solution for metal roofs with folded seam design

- Non-penetrating design ensures watertightness.
- Maximum stability with minimum weight.
- Virable combinations with L-feet, fixed foot or PV module clamp directly.
- Simple and quick installation achieved by attaching the clamp to the standing seams.



Inter clamp



Rail clamp



End clamp

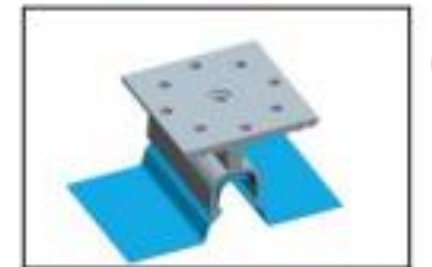
Features

Install site	Suitable for Lysaght® Kliplok® 406, 700, Lysaght® Locked Seam®, Stratmit® Speed Deck, Fielders® Kingclip, Kalzip® ect, customizable
Min. sheet thickness	0.42mm minimum
Roof slope	Up to 45°
Building height	Up to 20m
Wind speed	Up to 88m/s(316.8km/hy/196.9mph)
Standard	AS/NZ1170.2:2011, JIS C 8955:2011, other international standards
Distance between rail fixings	Depending on load condition, refer to manual
PV module	Framed, unframed
Module orientation	Landscape, portrait
Size of module array	Any layout up to site condition
Material	Anodized aluminum 6005 T5, stainless steel 304, 410
Color	Natural, powder coated
Module widths	Maximum 1.0m
Module lengths	Maximum 2.0m
Warranty	10 years limited warranty, refer to warranty doc

- Roof structure to be checked as suitable before installation.
- Clamps are to be fixed within 100mm of sheet fixing clips to purlins.



Kliplok®406



Kliplok®700



SMART STRINGS INVERTER



Smart PV Inverter

SUN2000-185KTL-H1



[Download Brochure >](#)



18 strings intelligent monitoring and fast trouble-shooting
MBUS supported
Smart I-V Curve Diagnosis supported



Max. efficiency 99.03%, European efficiency 98.69%
9 MPPTs for versatile adaptations to different layouts



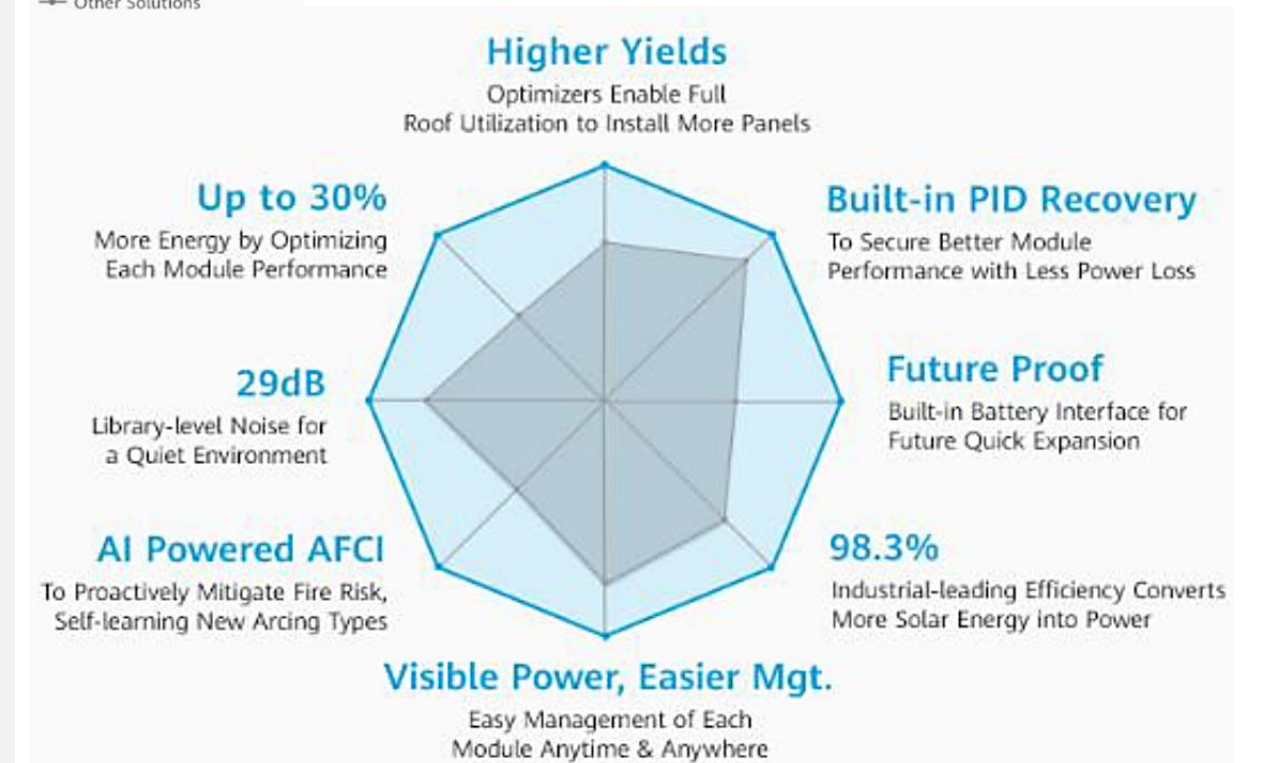
DC disconnect integrated
Residual Current Monitoring Unit (RCMU) integrated
Fuse free design



Protection degree of IP66
Type II surge arresters for both DC and AC

Upgraded Solar Experience

→ Huawei Solution
← Other Solutions



AMAZING SOLAR

Digital PV Solution for Optimal LCOE

Higher Yields
>2% More Energy

Smart O&M
Lower OPEX

Safe & Reliable
25-year's Reliability



Huawei offers leading Smart PV solutions which harnessing more than 30 years of expertise in digital information technology.

As the largest inverter supplier from 2015 to 2019 globally for 5 consecutive years, Huawei is committed to building efficient, **smart O&M, safe, reliable and grid-supporting Smart PV plants**, and helping customers maximize the return of investment over the plants' lifetime.

In 2020, Huawei further **integrate AI technologies** to boost LCOE.

NO.1 in Global Shipments
Huawei Smart PV Inverter
2015-2019



UTILITY-SCALE



COMMERCIAL



RESIDENTIAL

AMAZING SOLAR

7 Innovations for Lower LCOE*

String-level Management & Optimization

Fuse-free Design

Smart Multi-level Topology

Tracking System Integration

Huawei-patented Smart Anti-PID

MBUS Communication

Smart I-V Curve Diagnosis

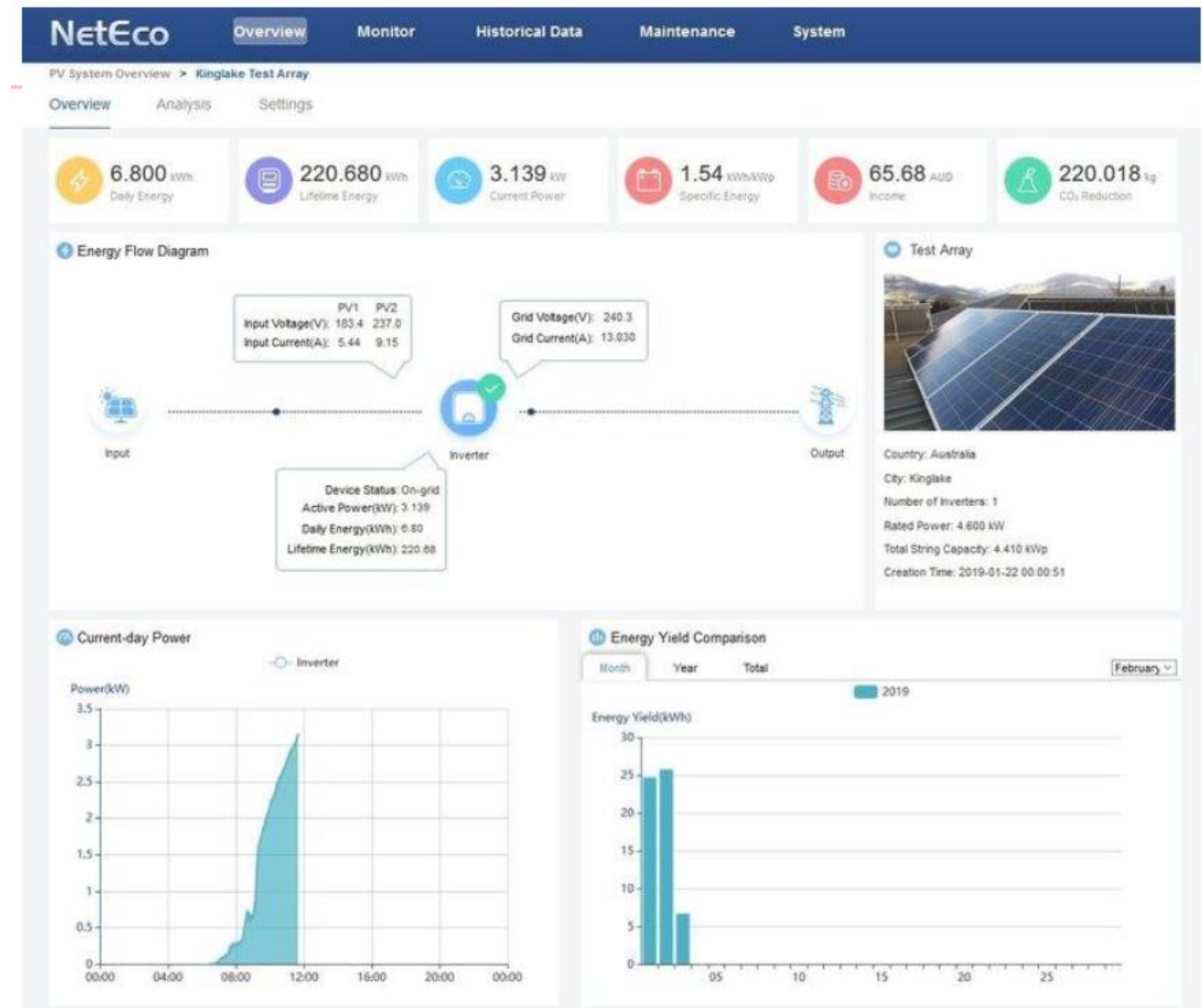
SOLUTION HIGHLIGHTS



AMAZING SOLAR

- String inverters enable **fully-digitalized plants**, and the Maximum Power Point Tracking (MPPT) and multi-core power generation technologies ensure higher efficiency and yields.
- State-of-the-art **wireless communications technologies** build reliable smart grids that feature unified management and higher O&M efficiency.
- Inverters implement a **fuseless, fanless, and maintenance-free design** to avoid the Potential Induced Degradation (PID) effect. With an IP65 enclosure rating, the products can work reliably for 25 years.

Monitoring



NetEco

Smart

- Easy data accesses on mobile devices
- Proactive reports of yields and alarms

Simple

- One-click installation on PC
- Fault alarms via SMS and E-mail

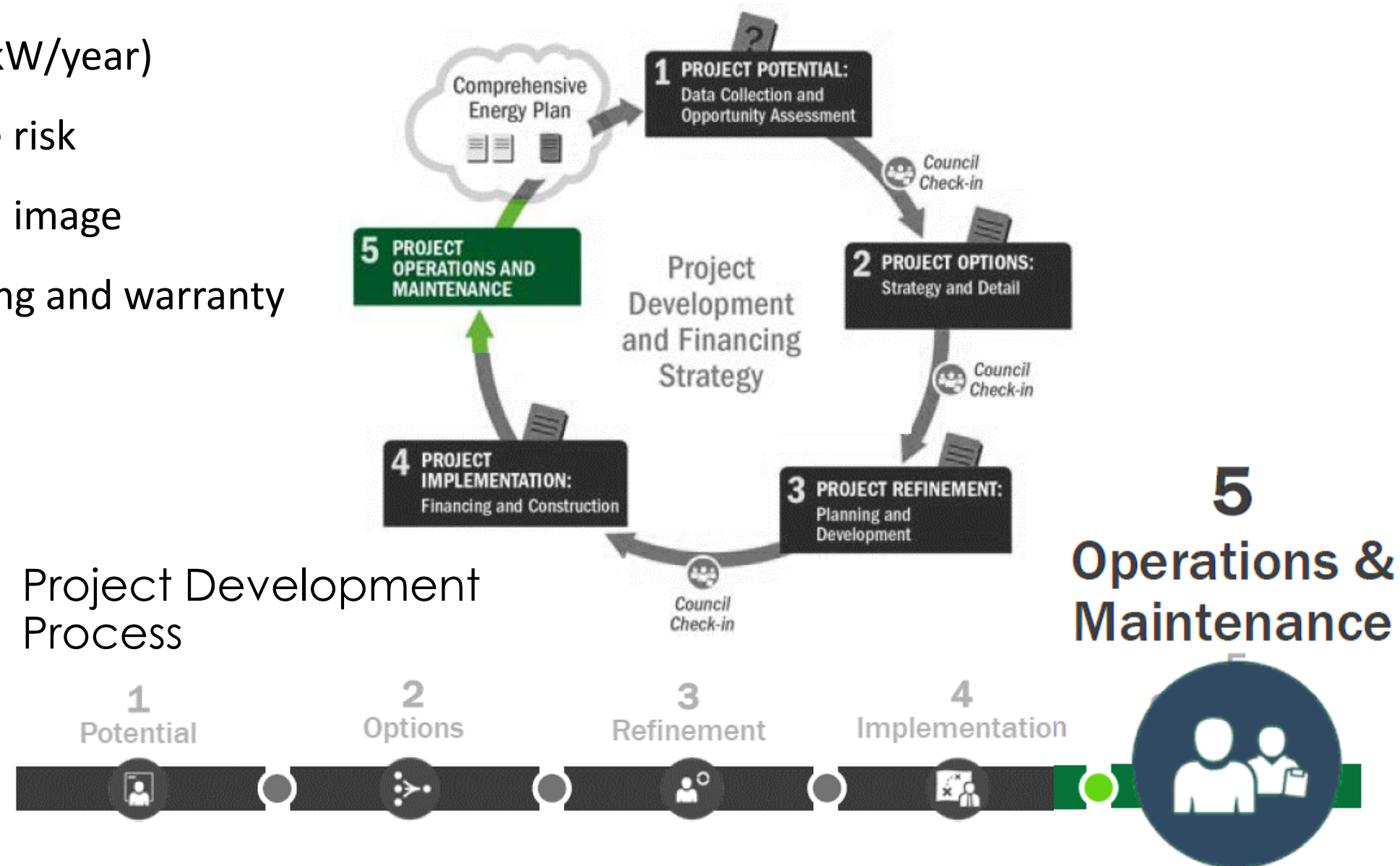
Stable

- Hierarchical management
- Up to 25 years data storage with CSV files

www.solar.huawei.com/apac/

Operation & Maintenance

- Increase efficiency and energy delivery (kWh/kW)
- Decrease downtime (hours/year)
- Extend system lifetime (25–40 years)
- Reduce cost of O&M (\$/kW/year)
- Ensure safety and reduce risk
- Enhance appearance and image
- Often required in financing and warranty



OPERATIONS & MAINTENANCE

O&M ACTIVITIES

1 Administration

- Billing; accounting
- Hiring subcontractors
- Enforcement of warranties
- Management of budget and reserves

2 Monitoring

- Metering for revenue
- Alarms
- Diagnostics

3 Preventive Maintenance

- Scheduled and planned
- Expenditure is budgeted

4 Corrective Maintenance (repair)

- Unplanned or condition-based
- Possible expenditure is kept in reserve or line-of-credit
- Must be timely and effective

Preventive Maintenance

Solar PV systems are like any electrical equipment that need to be regularly maintained for safe and efficient use.

Regular maintenance should be carried out in accordance with the manufacturer's instructions and conducted by a qualified person who is aware of the electrical risks with solar panels.

As a general rule, solar power modules installed at greater than 10 degrees angle will tend to self-clean with average rainfall.

For optimum performance we do recommend to keep your panels clean and regular inspection and cleaning regime

- Recommend every 12, 18 or 24 months.

Check out our ACOPRO TEC package in Appendix.



Solar Modules Cleaning



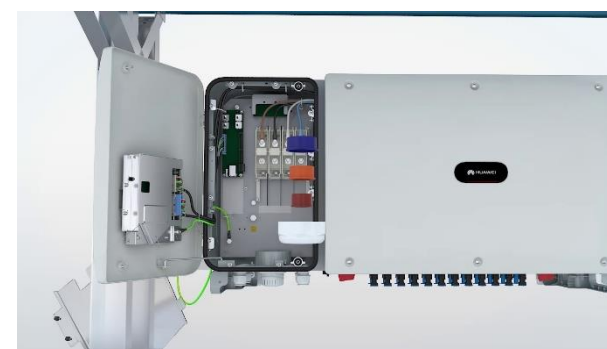
Wiring Cable Inspection



Solar Modules Health Check



Solar Electronic Protection Switch Inspection



Inverter Performance & Health inspection



Fan Cooling Check & Ventilation Inspection



Coming Soon- March'19
Modules Cleaning & Inspection AutoBot



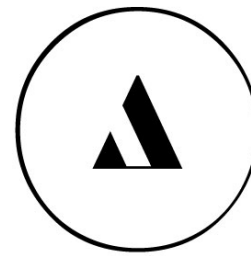
Off-Grid Project 2001
– Solar PV 362kWp
With PJ Indah Team

Project 2011 - FIT PV 4kWp



EPCC Contractor

SEDA Registered Solar PV Service Provider



a c o e c o

“ People who changed the world started from building the future ! ”

ACO ECO SDN BHD know-how is unique throughout the industry. Our core experience cover in planning, design, implementation and operation of projects of Green Building Design, Renewable Energy Development, Solar Photovoltaic System and Electrical Engineering projects.

ACO ECO committed to preserve the environment by providing the leading technology in eco engineering.

Mr.Lai 's interview published as SEDA official advertorial in New Straits Times(2013April) and China Press (2013July) for being the first installing solar power on his house.

Founder of ACO ECO – MR. LAI

All our projects are approved by regulated parties:



acoeco

ACO ECO

OUR HISTORY BEGINS IN 1995

What is ACO?

" Be the 1st Being Eco Friendly !"

ACO ECO is an Electrical Engineering company that provide comprehensive **Electricity Generation & Energy Saving Solutions**. We cover Engineering, Procurement, Construction & Commissioning (EPCC) for every projects.

Our Certification & Licenses :



Construction Industry Development Board (CIDB)
Reg. No. 0120141002-WP-159077



Certified Electrical Contractor For Suruhanjaya Tenaga (ST)
Reg. No. (TKL)WPKL/C/KE/01987/2 016



Malaysia Energy Commission -ESCO Certified (ST/GreenTech)
Reg. No. ESCO 145(2017)/108/2017



Certified Solar PV Engineer & Contractor For Sustainable Energy Development Authority Malaysia (SEDA)
Reg. No. SEDA-RVSP-2018/079



Certified Contractor For Ministry of Finance (MOF)
Reg. No. 357-02240851



COMMERCIAL & INDUSTRIAL PROJECTS



362kWp Off-Grid @ TPM 2001



425kWp FiT @ Kuala Kertih 2012



1MWp FiT @ Sandakan 2016



101.5kWp Selco @ Penang 2010



425kWp FiT @ Kuala Kertih 2012



800kWp NEM @ Puchong 2020

Joint Development
Projects With ACO
ECO SDN BHD



acoeco



AMAZING SOLAR

COMPANY

AMAZING SOLAR SDN BHD

SSM Reg. No. 199901009422 (484322-X)
2779-2, Jalan Industri 12, Kampung Baru
Sungai Buloh, 40160 Shah Alam, Selangor

CONTACT US

TEL : +603 -6157 8668

FAX : +603 -6157 1816

☎ : +6016 -295 6896 (Vonny)

✉ : amazingsolarsdnbhd@gmail.com

f : amazingsolarsdnbhd