

SOLAR PV INDUSTRY



20  
24

# AMIYA ENERGY

THE JOURNEY OF  
*Making Every Life Bloom*

90%

SAVE YOUR  
ELECTRICITY  
BILLS

*Ariff Aman*

Marketing Executive  
Amiya Energy 2024 (2)



7 AFFORDABLE AND  
CLEAN ENERGY

8 DECENT WORK AND  
ECONOMIC GROWTH

13 CLIMATE  
ACTION



# AMIYA ENERGY

MAKE EVERY LIFE BLOOM

## SOLAR PV INDUSTRY VOLUME 2



RESIDENTIAL | INDUSTRIAL & COMMERCIAL

### »»» MISSION

Elevating customer experience through peace of mind and precision in data delivery.

### »»» VISION

A world electrified, where life blooms with affordable and clean energy.

### »»» PURPOSE

Make Every Life Bloom





# ORGANIZATIONAL CHART

*Amiya Energy*



**PETER CHUA**  
Director of Amiya Energy



**ARIFF AIMAN**  
Marketing Executive



**JUSTIN LOW**  
Marketing Executive



**JAMES ONG**  
Sales Executive



**ABI ONG**  
Sales Executive



**NATASHA**  
Admin Executive



**AFIF FIRDAUS**  
Project Engineer



**IZZAH**  
Project Engineer

At **Amiya Energy**, we are committed to driving sustainable energy solutions for a brighter future. Our diverse and dynamic team works collaboratively to deliver innovative renewable energy projects, promote energy efficiency, and create lasting value for our stakeholders.

With a strong foundation in clean energy technologies and a mission to empower communities, we strive to lead the transition toward a greener and more sustainable world.

Together, we are energizing progress and shaping a cleaner tomorrow.





# INTRODUCTION

This is where blooming life begins

## BACKGROUND OF THE COMPANY

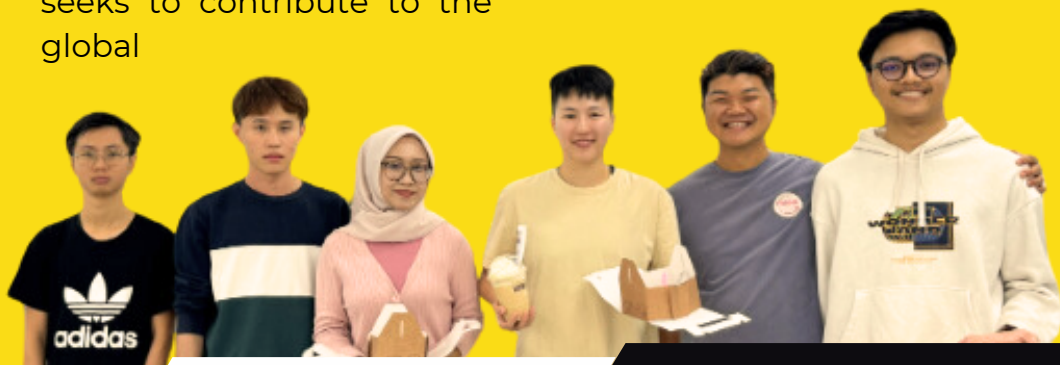
Amiya Energy is a newly established company that officially opened its doors in March 2024. Specializing in advanced energy solutions, Amiya Energy is focused on delivering innovative technologies that promote sustainability and efficiency in the energy sector. With a fresh perspective and a commitment to addressing contemporary energy challenges, the company aims to set new standards in renewable energy

and smart technology integration. At its core, Amiya Energy is dedicated to offering cutting-edge solutions that integrate renewable energy sources with sophisticated storage and grid management systems. The company seeks to contribute to the global

transition towards cleaner energy by leveraging state-of-the-art technologies and sustainable practices.



**AMIYA  
ENERGY**





# ABOUT US



“**AMIYA** holds a special meaning, derived from the names of the most important people in my life. My wife, mother, and children.”

- Peter Chua



ALLY My Wife

Appreciate whatever we have at the present

**A M I Y A**

[Present]

[Past]

[Future]

My Late Mom

Grateful on what mother earth have done for us in the pass

My Daughter

Take action to fight against climate change for the greener future

Amiya Energy was founded in March 2024 with a mission to revolutionize the energy landscape through innovative and sustainable solutions. As a forward-thinking company, we are committed to driving the transition to a cleaner and more efficient energy future. Our expertise encompasses a range of advanced energy technologies, including renewable energy systems, energy storage solutions, and smart grid advancements.

We are passionate about providing reliable, eco-friendly solutions that address the unique challenges of today's energy market. At Amiya Energy, we pride ourselves on our commitment to quality and sustainability. Our team of dedicated professionals works diligently to ensure that our solutions not only meet but exceed industry standards, delivering exceptional value and performance. We are excited

to be at the forefront of the energy revolution, and we invite you to join us on our journey towards a sustainable future powered by innovation.



# Our Company Core Values

## Customer First

We are driven by our commitment to serve our customers with excellence. Every decision we make begins with understanding and fulfilling their needs, ensuring their satisfaction and success are at the heart of everything we do.

## Safety Priority

Safety is more than a standard; it's a promise. We uphold the highest safety measures to protect our people, partners, and communities, ensuring a secure environment where innovation and growth can flourish.

## Integrity

We believe in doing what's right, even when no one is watching. With transparency, honesty, and ethical practices, we build trust that stands the test of time, always leading with integrity.

## Continuous Breakthrough

We strive for progress every day. Through innovation, learning, and adaptation, we embrace change and push boundaries, transforming challenges into opportunities for continuous improvement.

## Teamwork

Together, we achieve more. By collaborating, supporting, and lifting one another, we create a powerful team that turns shared goals into extraordinary achievements. Unity is our strength, and success is a team effort.

**Peter Chua**  
Director Of Amiya Energy



# DIRECTOR

## MESSAGE

Dear Readers,

I am excited to welcome you to this edition of our company magazine at Amiya Energy Sdn Bhd, where we strive for Malaysia's transition to sustainable energy. Over the past year, we have achieved growth and innovation by delivering advanced rooftop solar PV systems, helping businesses cut costs and promote a greener future.

Our commitment to sustainability drives us to adopt the latest solar technologies and support clients in reaching their environmental goals. This progress is thanks to our dedicated team, trusted clients, and supportive stakeholders.

Looking ahead, we aim to expand our impact, explore new technologies, and foster collaborations for clean energy adoption. Together, we can create a brighter and cleaner tomorrow. Thank you for being part of this journey.

*With warm regards,*

*Peter Chua*

*Director, Amiya Energy Sdn Bhd*

**Make Every Life Bloom**





# MEET THE TEAM



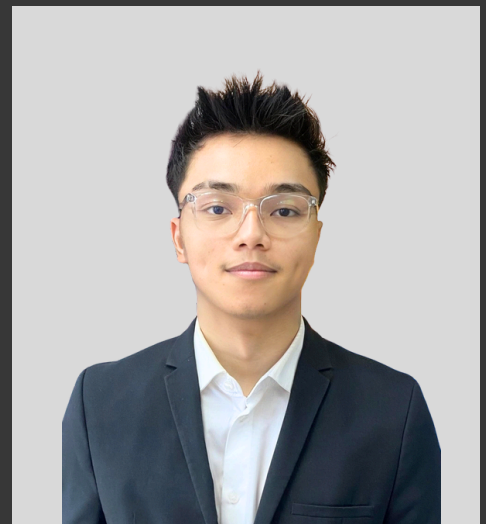
**NATASHA**

Admin Executive

Hi, I'm **Natasha!**, **Admin Executive** at Amiya Energy. I'm passionate about food hunting and traveling, always on the lookout for new culinary experiences and exciting destinations. When I'm not exploring new flavors or planning my next trip, I love unwinding with K-dramas. Oh, and I have a soft spot for all things pink it just makes everything a bit more fun!

Hello, this is **Ariff Aiman**, **Marketing Executive** at Amiya Energy since May 2024. It's been an incredible journey witnessing the impact of renewable energy in transforming lives and empowering communities. This E-Newsletter reflects our dedication to innovation and sustainability. Together, we're building a brighter, cleaner future for all. Thank you for your support as we continue to illuminate possibilities with solar energy.

*"We Make Every Life Bloom"*



**ARIFF AIMAN**

Marketing Executive



# MEET THE TEAM



**JUSTIN**

Marketing Executive

I'm **Justin Low**, a **Marketing Executive** at Amiya Energy Sdn Bhd. I love to jog when stress builds up —it's my way of clearing my mind and staying focused. Let's work together to promote the benefits of solar energy to the public, raise awareness, and encourage a love for the environment and our planet.

Hello Readers, I'm **Jaslyn**, your **HR & Account Executive** at Amiya Energy. My role lets me connect with amazing people and ensure everything behind the scenes runs smoothly, so our team can focus on building a greener future. This E-Newsletter is more than just updates; it's a celebration of progress, innovation, and the people who make it happen. Thank you for being part of this exciting journey toward a sustainable tomorrow.

*Here's to brighter days ahead!*



**JASLYN**

HR & Account Executive



# MEET THE TEAM

**ABI**

Sales Executive

Hi, I'm **Abi**, a **Sales Executive** with a passion for connecting people to sustainable energy solutions. Four years ago, I was in Canada building houses, which taught me the value of resilience and hands-on problem solving. I also graduated from the University of Prince Edward Island with a major in Communication, which sharpened my skills in understanding and connecting with people.

Now, I'm proud to be part of this amazing team, dedicated to helping our customers embrace solar energy and create a greener future. Let's work together to power the world sustainably!

Hello, my name is **James Ong Yee Kang**, and I am a **Sales Executive** at Amiya Energy Sdn Bhd. With a passion for driving business growth and establishing strong customer relationships, I specialize in identifying opportunities, presenting solutions, and delivering exceptional service to clients across various industries. My background includes construction, banking and I thrive in fast-paced environments where I can leverage my skills in negotiation, communication, and market analysis.

**JAMES**

Sales Executive



# MEET THE TEAM



**AFIF**

Project Engineer

Hi! I'm **Afif**, your **Project Engineer** at Amiya Energy Sdn Bhd. I am passionate advocate for Mother Nature, deeply committed to preserving the planet's beauty and ecological balance. My love for environment drives my dedication to sustainable practices, and I actively support initiatives that promote the long-term health of Earth. With a strong belief in the power of green energy, I focus on advancing renewable energy sources like solar power. My goal is to contribute to a cleaner, more sustainable future, helping to reduce humanity's environmental impact and ensuring that the planet thrives for generations to come. Through my work, I aim to inspire others to join the movement toward a greener, more sustainable world.

Hello Team, I'm **Izzah Nadhirah**, as a **Project Engineer** at Amiya Energy. I graduated with a degree in Electrical Engineering from UTHM, and I'm eager to learn more about the solar industry and work together with my team.

Outside of work, I love traveling and emceeing events and weddings. I'm looking forward to collaborating and contributing to our mission of making every life bloom!



**IZZAH**

Project Engineer



# Why Choose

# Amiya Energy

## EXPERIENCED MANPOWER

With over 4 years of hands-on experience, our skilled engineers bring a wealth of knowledge and technical proficiency to every project. We leverage our extensive industry experience to deliver reliable and innovative energy solutions.



## FAST INSTALLATION

We understand the importance of timely project completion. Our team is dedicated to ensuring fast, hassle-free installation, allowing you to benefit from your energy solutions without unnecessary delays.





# Why Choose

*Amiya Energy*

## CUSTOMER SERVICE

Your satisfaction is our goal. We offer exceptional customer service and support throughout the entire process, from initial consultation to post installation maintenance.



## COMPREHENSIVE INSURANCE

We understand the importance of timely project completion. Our team is dedicated to ensuring fast, hassle-free installation, allowing you to benefit from your energy solutions without unnecessary delays.

SolarPro® Solar PV Insurance

Commercial & Industrial  
Residential

[View Plans](#)

[Get Quote](#)



## SOLAR IN MALAYSIA 2007-2024

### 2007-2010: EARLY INITIATIVES AND FRAMEWORK DEVELOPMENT

#### **Introduction of the Renewable Energy (RE) Policy:**

The Malaysian government began emphasizing renewable energy, including solar, as part of the 9th Malaysia Plan (2006-2010). The Small Renewable Energy Program (SREP) was a notable effort to promote RE generation.

#### **Feed-in Tariff (FiT) Planning:**

Malaysia explored Feed-in Tariffs to encourage investment in renewable energy, especially solar. Research and planning during this period set the stage for future legislation.

#### **Growing Awareness:**

The period saw rising awareness about the potential of solar energy, with pilot projects and academic studies driving public and private interest.

### 2011-2015: FORMAL POLICIES AND INDUSTRY KICKSTART

**2011: Renewable Energy Act and FiT Implementation:** Malaysia enacted the Renewable Energy Act 2011, introducing the Feed-in Tariff (FiT) scheme. This scheme guaranteed fixed payments to solar energy producers, spurring private sector investments.

**Suria 1000 Program:** Initiated to support the installation of solar photovoltaic (PV) systems in residential and commercial buildings.

**Increased PV Installations:** By 2015, the FiT scheme significantly boosted solar energy adoption, with over 200 MW of installed solar PV capacity.

**Global Recognition:** Malaysia emerged as a leading exporter of PV modules, leveraging its robust manufacturing sector.



# SOLAR IN MALAYSIA 2007-2024

## 2016-2020: SCALING UP SOLAR ADOPTION

**Net Energy Metering (NEM) Introduction (2016):** The NEM scheme replaced FiT, allowing consumers to offset electricity bills by exporting excess solar energy back to the grid.

**Large Scale Solar (LSS) Projects:** Launched in 2016, LSS aimed to develop utility-scale solar farms through competitive bidding. By 2020, several LSS rounds resulted in projects contributing over 1 GW of installed capacity.

**Grid Parity Progress:** Falling solar PV costs and improved efficiency made solar competitive with traditional energy sources.

**Green Investment Growth:** Government incentives and tax breaks encouraged investment in renewable energy projects.

## 2021-2024: ACCELERATED GROWTH AND DECARBONIZATION GOALS

**Enhanced NEM (NEM 3.0):** Launched in 2021 to boost solar adoption through three programs: NEM Rakyat (residential), NEM GoME n (government), and NOVA (commercial and industrial).

**National Renewable Energy Goals\*\*:** Malaysia aims for 31% renewable energy capacity by 2025 and 40% by 2035, with solar energy as a key component.

**Increased Private Sector Engagement:** Companies like Amiya Energy support residential and industrial solar adoption with innovative financing and installation.

**Technology Advancements:** Integration of battery storage and smart grids improves solar energy efficiency and reliability.



# SOLAR IN MALAYSIA 2007-2024

## 2016-2020: SCALING UP SOLAR ADOPTION

**Net Energy Metering (NEM) Introduction (2016):** The NEM scheme replaced FiT, allowing consumers to offset electricity bills by exporting excess solar energy back to the grid.

**Large Scale Solar (LSS) Projects:** Launched in 2016, LSS aimed to develop utility-scale solar farms through competitive bidding. By 2020, several LSS rounds resulted in projects contributing over 1 GW of installed capacity.

**Grid Parity Progress:** Falling solar PV costs and improved efficiency made solar competitive with traditional energy sources.

**Green Investment Growth:** Government incentives and tax breaks encouraged investment in renewable energy projects.

## 2021-2024: ACCELERATED GROWTH AND DECARBONIZATION GOALS

**Enhanced NEM (NEM 3.0):** Launched in 2021 to boost solar adoption through three programs: NEM Rakyat (residential), NEM GoME n (government), and NOVA (commercial and industrial).

**National Renewable Energy Goals\*\*:** Malaysia aims for 31% renewable energy capacity by 2025 and 40% by 2035, with solar energy as a key component.

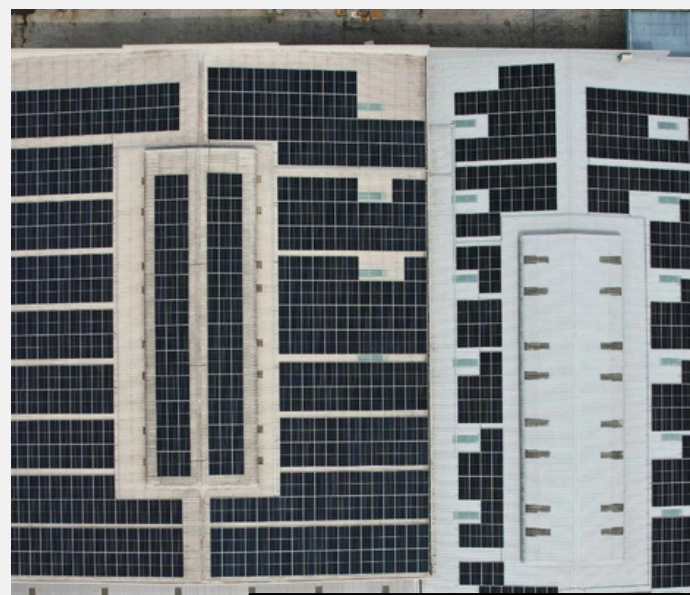
**Increased Private Sector Engagement:** Companies like Amiya Energy support residential and industrial solar adoption with innovative financing and installation.

**Technology Advancements:** Integration of battery storage and smart grids improves solar energy efficiency and reliability.



# OUR SERVICES

At **Amiya Energy**, we are committed to delivering sustainable energy solutions tailored to your unique needs. Explore how our services can empower you to embrace solar energy and contribute to a greener future:





## RESIDENTIAL SOLAR SOLUTIONS (NEM RAKYAT)

# RESIDENTIAL

Turn your home into a powerhouse of clean energy! With NEM Rakyat, enjoy reduced electricity bills by generating your own solar energy and exporting the surplus back to the grid. Let us help you create a brighter, more sustainable future for your family.

### Benefits:

- Lower utility bills
- Increased property value
- Easy financing options



# GOVERNING BUILDING (NEM GOMEN)

The concept of NEM GoME n is that the energy produced from the solar PV installation on Government premises will be consumed first, and any excess will be exported to the TNB grid. The credit to be received for such excess energy will be used to offset part of the electricity bill on a “one-on-one” offset basis for a period of ten (10) years of operation.

QUOTA	ELIGIBILITY CRITERIA	TARIFF CATEGORY	CAPACITY LIMITS
100MWac	Registered consumers of applying to be a consumer of TNB in Peninsular Malaysia-Government Agency(ies) who have not participated in any of the prior solar programmes;*government Agency means a ministry, department or statutory body established by the government at all levels of administration whether at the federal, state or district levels including local authorities	<b>Commercial</b>	The maximum capacity of the PV Installation shall not exceed 1,000 kW and subject to the following conditions:a) for Medium Voltage Consumers, not exceeding 75% of Maximum Demand based on:the average of the recorded Maximum Demand of the past 1 year; orthe declared Maximum Demand for Consumers with less than 1 year’s record; andb) for Low Voltage Consumers, not exceeding 60% of fuse rating (for direct meter) or 60% of the current transformer (CT) rating of the metering current transformers.



## BENEFITS OF NEM GOMEN

The energy generated by NEM consumers will be consumed first which implies that less energy will be imported from the utility. In many countries, the NEM scheme is effective to hedge against fluctuation or increase in electricity tariff in the future. This is especially relevant for consumers that fall under the high electricity tariff block.

Under this program, any excess energy generated will be exported to the utility grid and will be paid on a “one-on-one” offset basis. The priority is for self-consumption, however some premises which are not operating during the weekends or public holiday may have excess energy exported to the grid. The credit shall be allowed to roll over for a maximum of 12 months.

## LICENSING REQUIREMENTS

License is required under Section 9 of the Electricity Supply Act for any person to use, work or operate or permit to be used, worked or operated any solar PV Installation above 72kWp for three phase system and above 24kWp for single phase system. The NEM Consumer or the owner of the PV system asset shall apply for a license from the Energy Commission after receiving information that the NEM application has been approved.

**“Passion is energy”**

**Abi Ong**  
Sales Executive



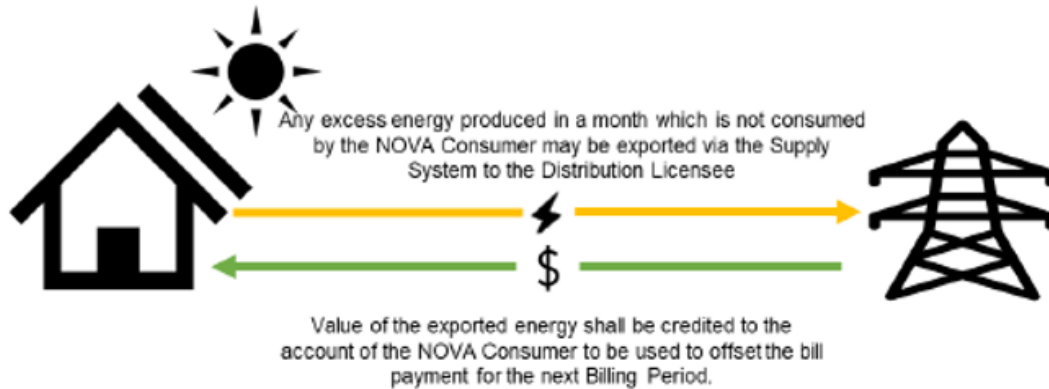
# COMMERCIAL

## (NEM NOVA)

The concept of Net Offset Virtual Aggregation (NOVA) Programme is that the energy produced from the solar PV installation on a NOVA consumer Premise shall be consumed and designed primarily for self-consumption. Any excess

Energy which is not consumed at the Premise where the PV Installation is located due to operational constraints or monthly or seasonal variation in load demands at the said Premises may be exported through the Supply System under one of the following categories:

## CATOGORY A



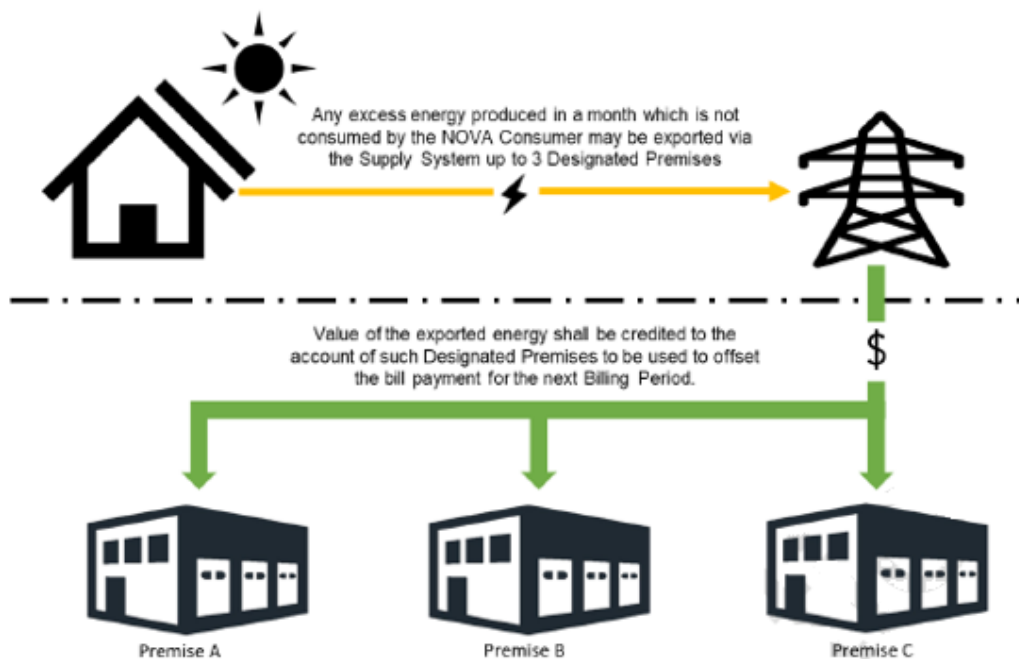
- Any excess Energy produced in a month which is not consumed by the **NOVA** Consumer may be exported via the Supply System to the Distribution Licensee.
- The value of the exported energy shall be credited to the account of the **NOVA** Consumer to be used to offset the bill payment for the next Billing Period.



# COMMERCIAL

## (NEM NOVA)

### CATEGORY B



- Any excess Energy produced in a month which is not consumed by the **NOVA** Consumer may be exported via the Supply System to up to three (3) Designated Premises.
- The value of the exported Energy shall be credited to the account of such Designated Premise to be used to offset the bill payment for the next Billing Period.
- The unit price (RM/kWh) of the Energy exported in the Billing Period to the Supply System shall be based on the Average SMP.
- A Designated Premise of the **NOVA** Consumer includes Premise used or operated by its wholly owned subsidiary company



# COMMERCIAL

(NEM NOVA)





# OPERATION & MAINTENANCE

Solar panels are durable, often backed by 25 to 30-year warranties from reputable installers. Proper maintenance is vital, as regular cleaning prevents dust accumulation that can hinder sunlight and reduce electricity production.

Regular cleaning is essential for residential solar panels, using proper tools to avoid damage. Photovoltaic (PV) modules require less maintenance than other power systems because they lack moving parts. Here are recommendations for effective solar panel care:

**(1) Cleaning Procedures:** Allow rain to naturally clean solar panels of dirt and bird droppings. After severe

weather, visually inspect panels to ensure optimal condition.

**(2) Avoiding Harmful Tools and Chemicals:** To prevent scratches and damage to solar panels, avoid abrasive tools and chemical cleaning agents, and instead use soft brushes, squeegees, leaf blowers, or a gentle garden hose for cleaning.

**(3) Monitoring Efficiency Drops:** Monitoring solar panel efficiency is crucial as dust build-up can reduce energy output. Use mobile apps on solar inverters to track daily productivity. Investigate unexpected efficiency drops on sunny days, as they may indicate obstructions like leaves. DIY

cleaning can work for ground-mounted or accessible flat roofs, but for sloped roofs, professional services are recommended due to safety risks.

**(4) Cost of Maintenance:** Professional solar cleaning service costs depend on location, system size, and complexity.

**(5) Leveraging Solar Panel Warranties:** Securing a strong warranty is essential when investing in a solar power system. The best solar panels offer warranties of 25 to 30 years, covering any malfunctions at no extra cost to protect your investment.



# SOLARPRO INSURANCE

SolarPro All Risk Insurance is Malaysia's pioneer insurance for the emerging solar PV market in Malaysia and was created in response to residential and commercial Solar PV system owners' growing need for specialized and comprehensive protection.

Underwritten by Allianz General Insurance Company (M) Bhd, this policy is the brainchild of Anora Agency and was developed in collaboration with the MPA, in consultation with SEDA Malaysia.

## BENEFITS

From only RM150 a year and income / savings protection up to RM12,000, SolarPro lets residential Solar PV owners to chose a plan based on their needs and finances.



**Anora's Ready Panel of MPIA Authorised & SEDA Approved Service Providers**



**FIT Income Protection  
NEM Savings Protection**



**Fire Protection from Power Surge**



**Comprehensive All-Risk Protection**



**Coverage for Rats Damaging Cables**

Developed in  
Collaboration with



Underwritten by



Developed in  
Consultation with



# Follow Us on Social Media



Let's Get Connected for Our Latest News & Updates



Amiya Energy - Rooftop Solar PV System



Amiya Energy - Rooftop Solar PV System



Amiya Energy - Rooftop Solar PV System



amiya.energy



AmiyaEnergy住家商业系统



@amiyaenergy



019-776 6512



01-06, Level 1, Tropika Welcome Centre - Setia Sales Gallery, 10, Jalan Setia Tropika 1/21, Taman Setia Tropika, 81200 Johor Bahru, Johor Darul Ta'zim



[www.amiya.energy](http://www.amiya.energy)



[amiya@amiya.energy](mailto:amiya@amiya.energy)