

# MARKET SPOTLIGHT: MALAYSIA



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Tuesday, 29 April 1:30-2:30 PM



**Renewable Energy  
Markets™ Asia 2025**

# REM ASIA 2025

## Market Spotlight: Malaysia

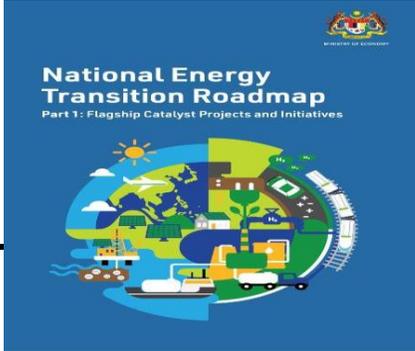
29th April 2025



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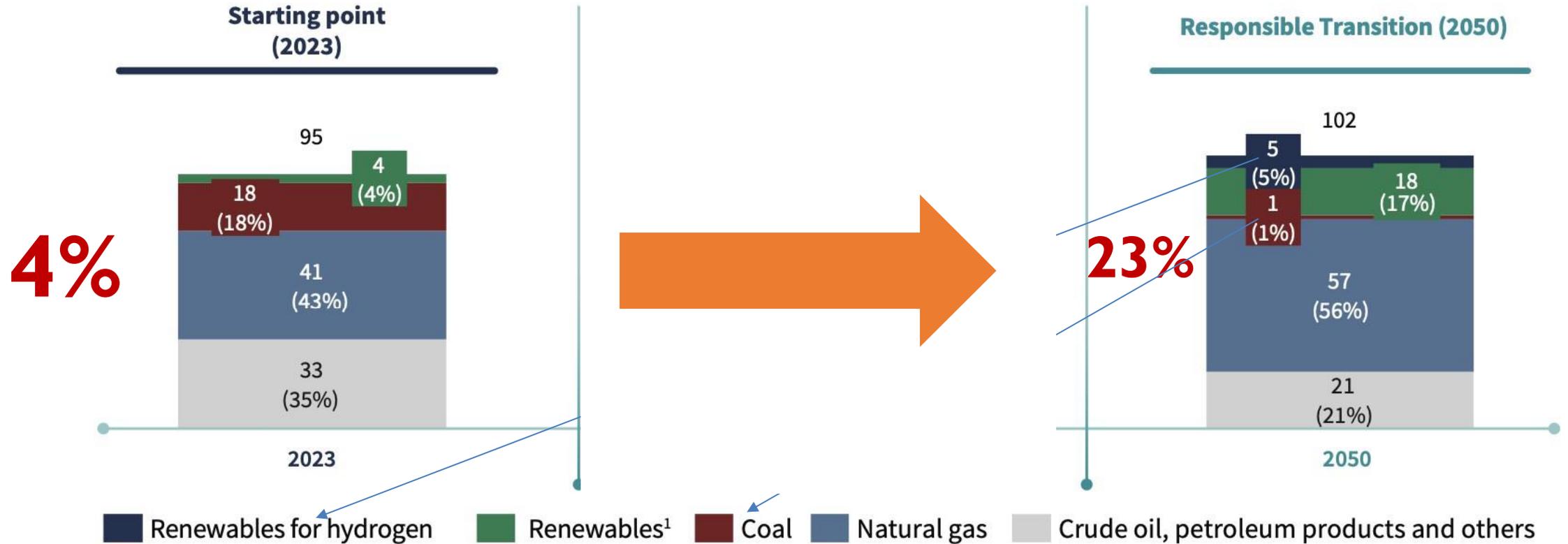
Email: **ceo@asiacarbonxchange.org**



# DECARBONISING THE ENERGY SECTOR

## RE in Total Primary Energy Supply

Total Primary Energy Supply (Mtoe), by energy source



1. Includes bioenergy, solar, hydropower and hydrogen

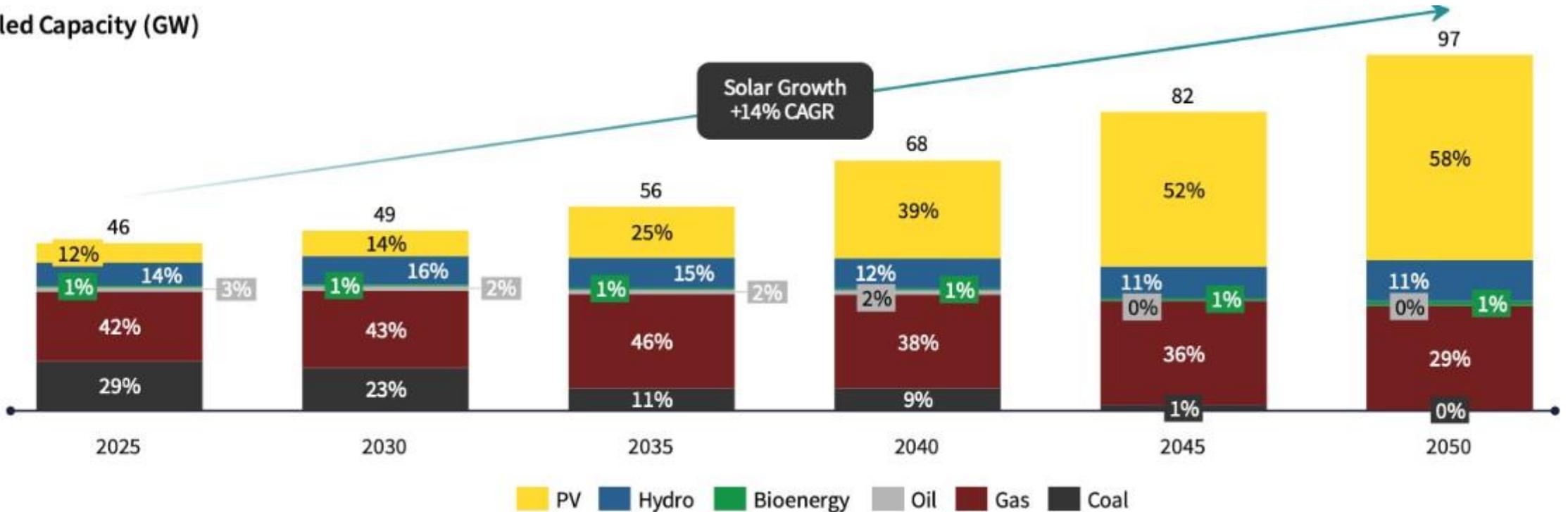
# DECARBONISING THE ENERGY SECTOR

## Solar as the Major Source for Power Generation

National Energy Transition Roadmap  
Part 1: Flagship Catalyst Projects and Initiatives



Installed Capacity (GW)

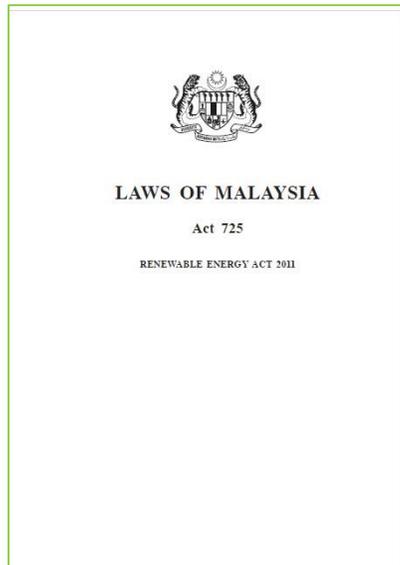


**Intermittency, Grid flexibility, Cost affordability**

# Green programs in Malaysia

- Various green policy/scheme/programs has been introduced to spur the growth of RE capacity for more than a decade

2011



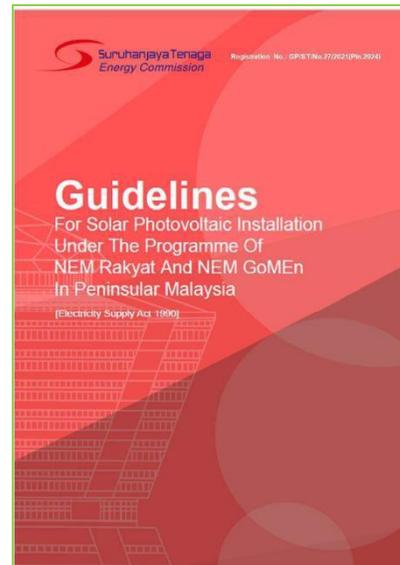
- FIT programs introduced with the enactment of RE Act 2011
- Quotas of FIT has been opened from time to time till date especially for biogas/biomass

2016

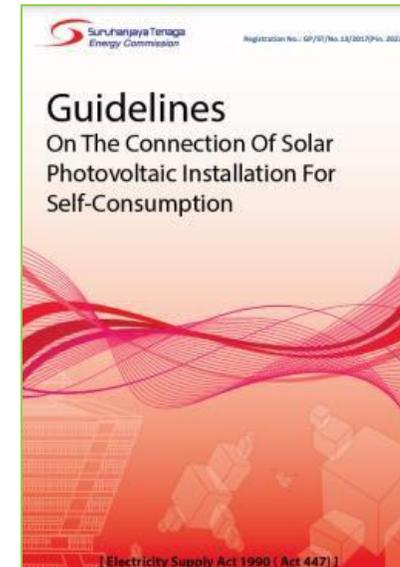


- Large Scale Solar (LSS) program has been introduced in May 2016 onwards
- 5 series of LSSPV bidding cycle has been opened and awarded till date (LSS 5 to be awarded)

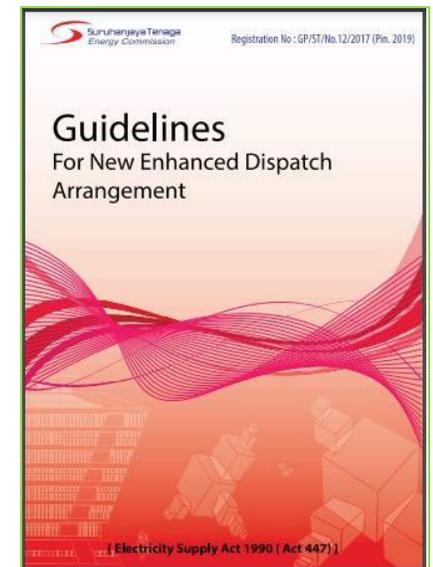
2017



- Net Energy Metering (NEM) scheme is introduced to allow more rooftop solar installation
- Variations of NEM scheme from Nov 2016 (NEM 1.0), Jan 2019 (NEM 2.0) and Dec 2020 (NEM 3.0)



- Self-consumption (SelCo) guideline for solar PV was introduced since April 2017 to facilitate consumer's RE installation for selco

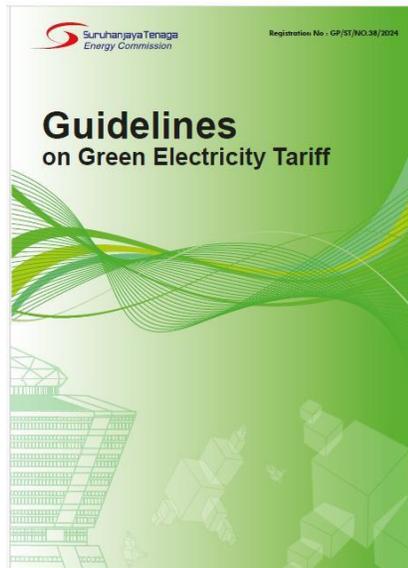


- New Enhanced Dispatch Arrangement (NEDA) was fully launched in June 2017
- May 2019 updates provides Solar Power Producer as a new category to sell energy to Single Buyer

# Green programs in Malaysia

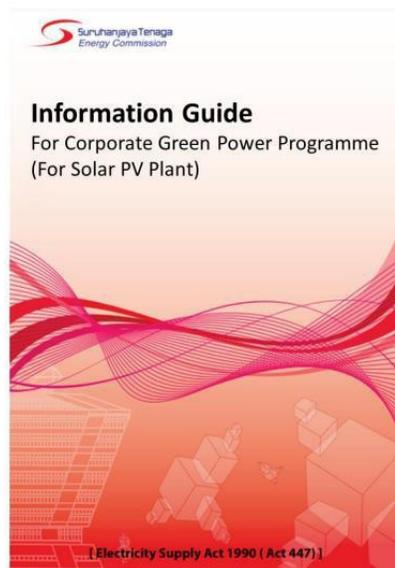
- Various green policy/scheme/programs has been introduced to spur the growth of RE capacity for more than a decade

2021



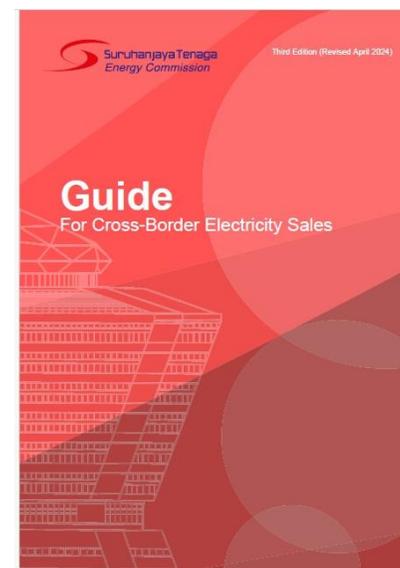
- **Green Electricity Tariff (GET)** introduced on 21<sup>st</sup> Nov 2021 for customers to obtain green electricity with mREC (bundled) through TNB billing

2022



- **Corporate Green Power Program (CGPP)** was started since Nov 2022
- It's a mechanism of virtual power purchase agreement, which is implemented using the existing New Enhanced Dispatch Arrangement (NEDA) framework.

2023



- **Cross-Border Electricity Sales (CBES) through Energy Exchange Malaysia (ENEGEM)** was introduced in Oct 2023
- The scheme will be launched in phases starting with the Pilot Phase for up to 300 MW using existing interconnection between Peninsular Malaysia and Singapore.

2024



- **Corporate Renewable Energy Supply Scheme (CRESS)** will be implemented in September 2024
- Allowing third-party access to electricity grid for green electricit

# Green programs in Malaysia

- Various green policy/scheme/programs has been introduced to spur the growth of RE capacity for more than a decade

2024



- **New SELCO guideline**
- The key changes introduced in the SELCO Guidelines are as follows:
- Removal of Capacity Limit:
- Standby Charges : RM 12/kWp
- BESS from Dec 2025 for 1 MWp assets.

2025



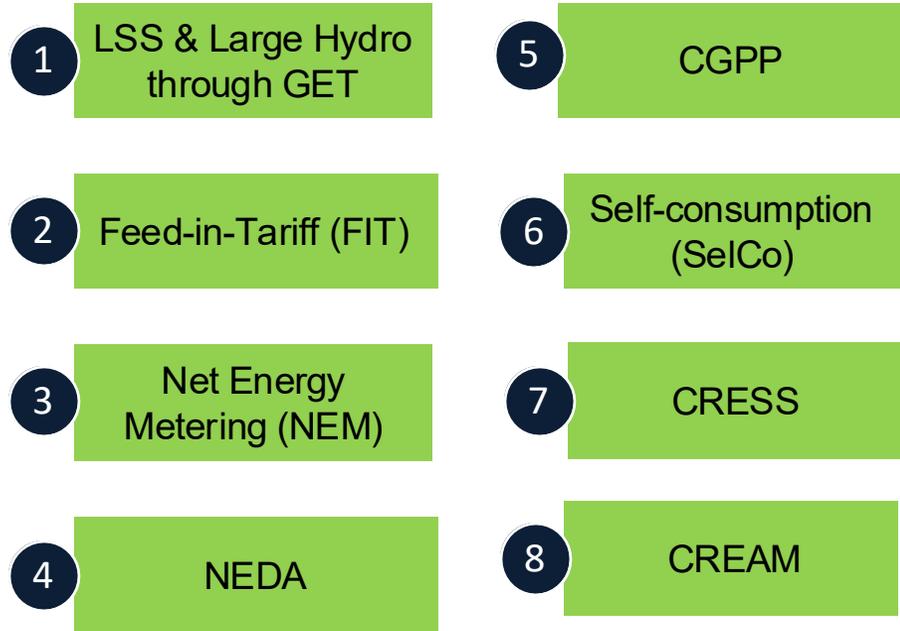
- **CREAM,**  
"CREAM guidelines" likely refers to the Community Renewable Energy Aggregation Mechanism (CREAM) guidelines introduced by the Energy Commission (ST) in Malaysia. These guidelines facilitate the aggregation of residential rooftop space for renewable energy generation, benefiting local green consumers.

# Sources of green attributes in Malaysia

- Malaysia now has various source of green attributes coming from various schemes/programs introduced

In summary:

1. The abundance of **green attributes** is as a result of various green programs/schemes introduced over the years which benefitted the people, country and environment. This provides **opportunity** for the certification of RE in the forms of the **Renewable Energy Certificate (REC)**.
2. REC will have an important role as the catalyst to spur more RE capacity growth in Malaysia; towards the aim of achieving the National Energy Transition Roadmap (NETR) target of **70% RE capacity by 2050**.
3. PETRA stands to support or share our experiences on the implementation of various Green Electricity supply programme



# Purchasing RECs in Malaysia

- Customers are allowed to acquire through various Platforms ,Utility and Traders.

## Platforms



## Unbundled

Bilateral REC only sale

Multilateral REC only sale

REC sale via marketplace

### Unbundled RECs:

These allow the separation of the renewable energy attribute (the REC) from the electricity generation.

## Bundled

Self-consumed Power + REC

Corporate PPA

Utility Green Tariff

### Bundled RECs:

These are the standard type of REC, where the renewable energy and the corresponding electricity are sold together.

Thank You



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Type	Description	Key Features
<b>Bilateral REC-Only Sale</b>	A direct transaction between a single buyer and a single seller where only the Renewable Energy Certificate (REC) is sold, separate from the physical electricity.	<ul style="list-style-type: none"> <li>• Private contract</li> <li>• Direct negotiation of price and terms</li> <li>• No electricity delivery involved</li> </ul>
<b>Multilateral REC-Only Sale</b>	Multiple buyers and/or multiple sellers are involved in a coordinated sale of RECs, often organized by a facilitator (e.g., auction, tender).	<ul style="list-style-type: none"> <li>• Pool of buyers and sellers</li> <li>• Standardized terms</li> <li>• Competitive or batch pricing</li> </ul>
<b>REC Sale via Marketplace</b>	RECs are listed on an open platform (such as <b>mGATS</b> or <b>BCX</b> ) where buyers can select and purchase certificates based on price, vintage, and project attributes.	<ul style="list-style-type: none"> <li>• Transparent pricing</li> <li>• Standardized transaction processes</li> <li>• Market supply-demand driven</li> </ul>

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# REM ASIA 2025

## Market Spotlight: Sabah

*29<sup>th</sup> April 2025*

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# Sabah Energy Roadmap and Master Plan 2040



## Objectives & Action Plans



1

### Energy Security

To develop comprehensive plans for Sabah to build its capacity to meet current and future energy demand

### Affordability & Equity

To bolster the State's ability to provide universal access to affordable and fairly priced energy for domestic, commercial and industrial use

2

3

### Environmental Sustainability

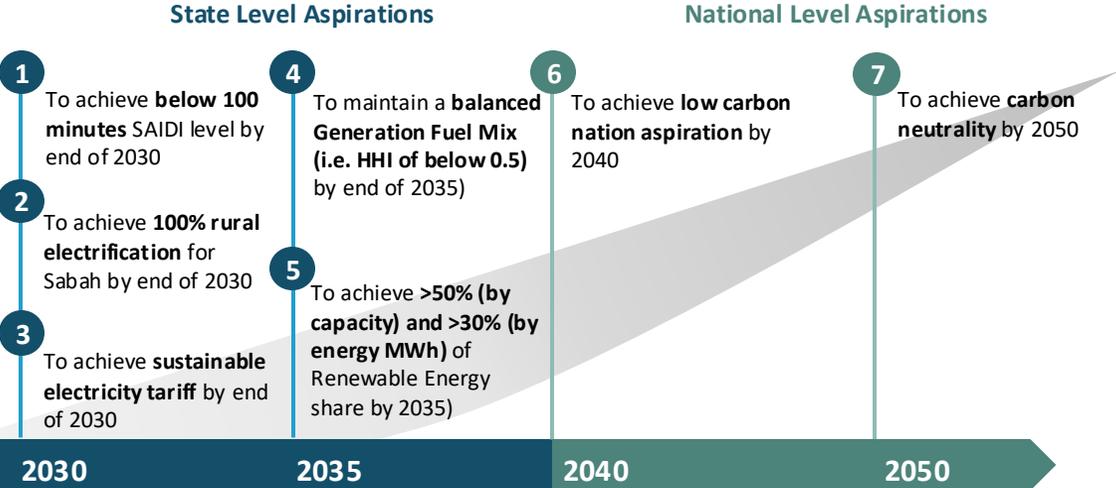
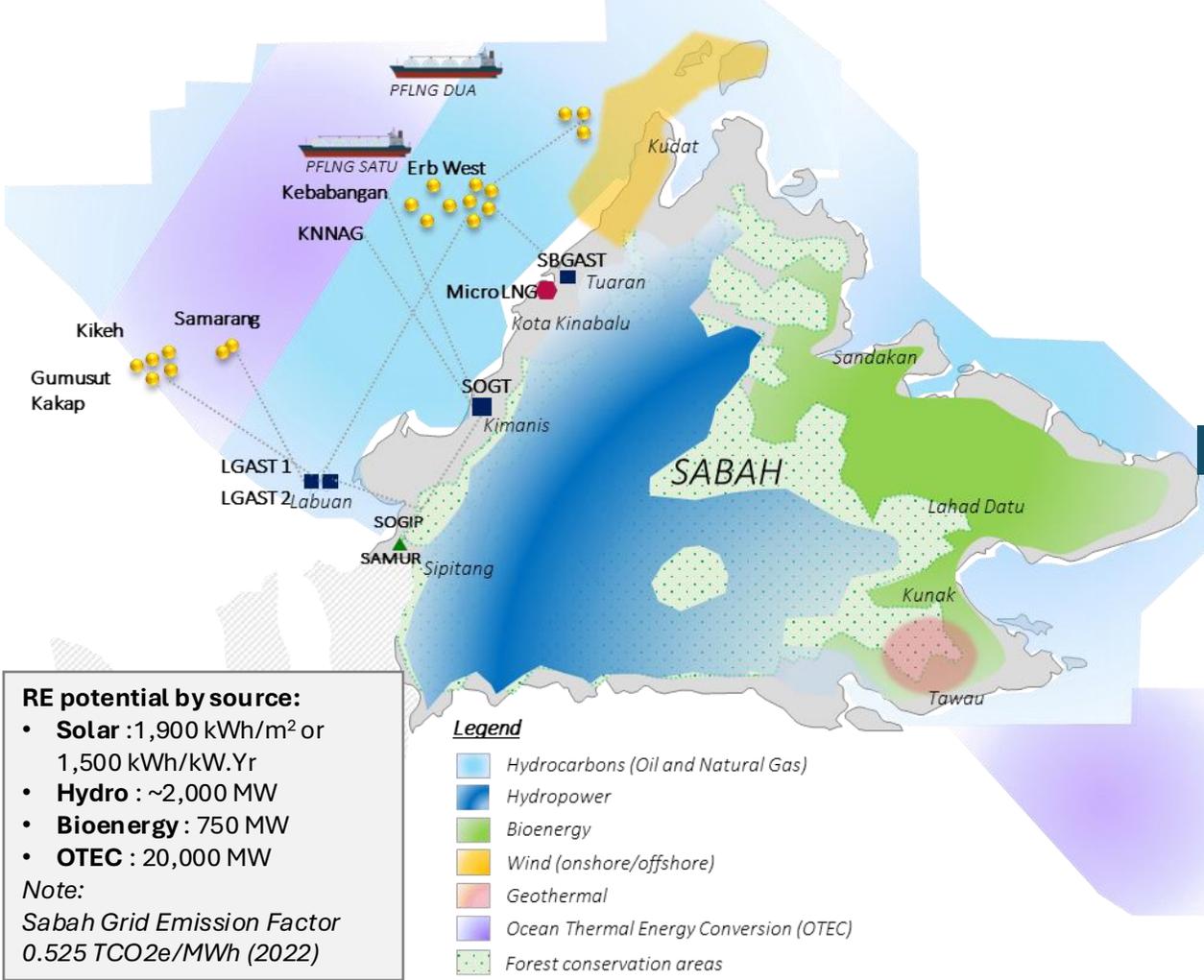
To prepare Sabah towards an energy transition phase to mitigate and avoid potential environmental harm and climate change impacts

Vision					
Reliable, Accessible, Affordable and Sustainable Energy for Sabah					
Energy Security		Equal Accessibility & Affordability		Environmental Sustainability	
Ensure energy security towards operational and financial sustainability		Optimise energy resources to stimulate sustainable socioeconomic growth		Enhance energy sector contribution towards environmental sustainability	
<ul style="list-style-type: none"> <li>A1 Achieve <b>Operational Sustainability</b></li> <li>A2 Establish State <b>Policy for Indigenous Energy Resources</b></li> <li>A3 Improve <b>Generation Reserve Margin</b></li> <li>A4 Improve <b>Generation Energy Mix</b></li> <li>A5 Develop <b>Integrated Gas Master Plan</b></li> <li>A6 Establish Resilient <b>Cross-border Interconnectivity</b></li> <li>A7 Identify <b>New Energy Sources and Technologies</b></li> </ul>		<ul style="list-style-type: none"> <li>B1 Implement <b>Generation Optimisation Plan</b></li> <li>B2 Progress towards <b>Effective Energy Tariff</b></li> <li>B3 Implement Energy <b>Subsidies Rationalisation Plan</b></li> <li>B4 Achieve <b>100% Rural Electrification</b></li> <li>B5 <b>Optimise Hydropower</b> Potential</li> </ul>		<ul style="list-style-type: none"> <li>C1 Increase <b>Renewables Contribution</b> to Sabah Generation Mix</li> <li>C2 Expand Use of <b>Bio-energy</b></li> <li>C3 Establish Sabah <b>Energy Efficiency Action Plan (SEEAP)</b></li> <li>C4 Transition Sabah towards a <b>Carbon Neutral State</b></li> </ul>	
<b>16 Strategies</b>					
6 Enablers					
Policy & Regulation	Governance	Human Capital & Capabilities	Research, Development & Technology	Financing & Investment	Energy Supply Industry Structural & Operational Reform

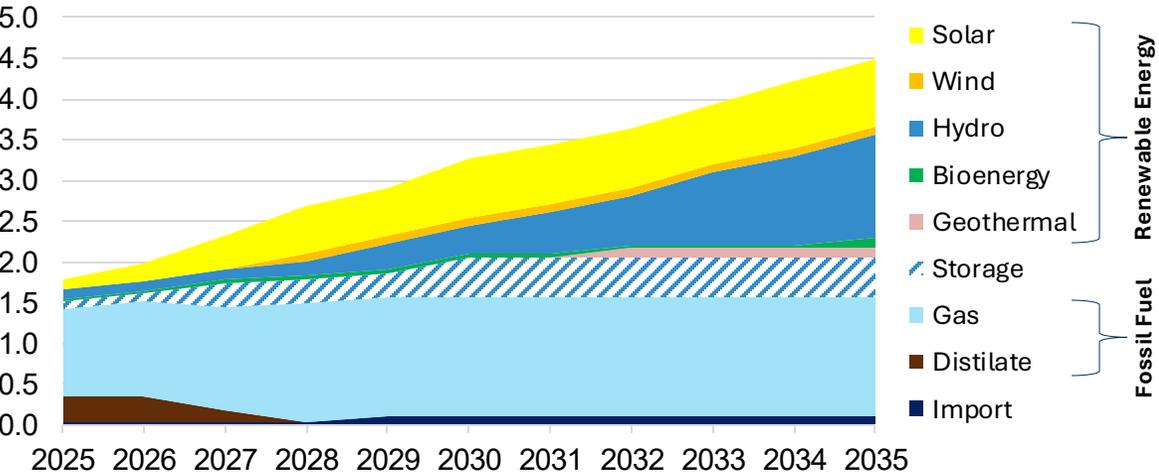
# The BIG Picture : Sabah Energy Resources Map and Outlook



Sabah's current and future energy landscape, highlighting the strategic locations and diverse energy resources that will drive the region's growth and development.



**Electricity Production by Source | Capacity Mix**  
Measured in GW



The locations marked on this map are indicative only and may not represent the precise geographical positions of the energy resources and facilities  
Source: Energy Commission of Sabah

Sabah Cross-border Interconnectivity with North Kalimantan, Indonesia, Palawan, Philippines and Sarawak, Malaysia



1

## Grid Enhancements

Strengthening Sabah-Sarawak interconnection, preparing for ASEAN Power Grid integration.

2

## Future Links

Potential grid ties to Indonesia's Kalimantan and Philippines' Palawan.

3

## RE Market Growth

Expanding renewable energy markets and investor appeal regionally.



## Microgrids & hybrid systems

Focus on rural areas (400 villages unelectrified), solar/hydro hybrid, small community-run grids



## Battery Energy Storage

Lahad Datu BESS (100MW/400MWh) - largest in ASEAN.  
BESS auctions to be launched



## Sabah OTEC Policy

This is the first initiative in Malaysia. It will develop ocean thermal energy technology off the coast of Tawau.

# Investor-Friendly Environment

## 1 Energy Autonomy since 2023

Sabah's energy sector is now now governed under State State authority, enabling customised policies for RE RE growth and local needs needs

## 2 Transparent processes, fast-track approvals

Clear licensing frameworks and streamlined approval processes make Sabah investor-ready for RE development

## 3 Sustainable project frameworks

Projects are aligned with long-term sustainability goals, ensuring commercial viability and meeting carbon and clean energy targets



# Sabah as Carbon Sink

## 1 Carbon Sink

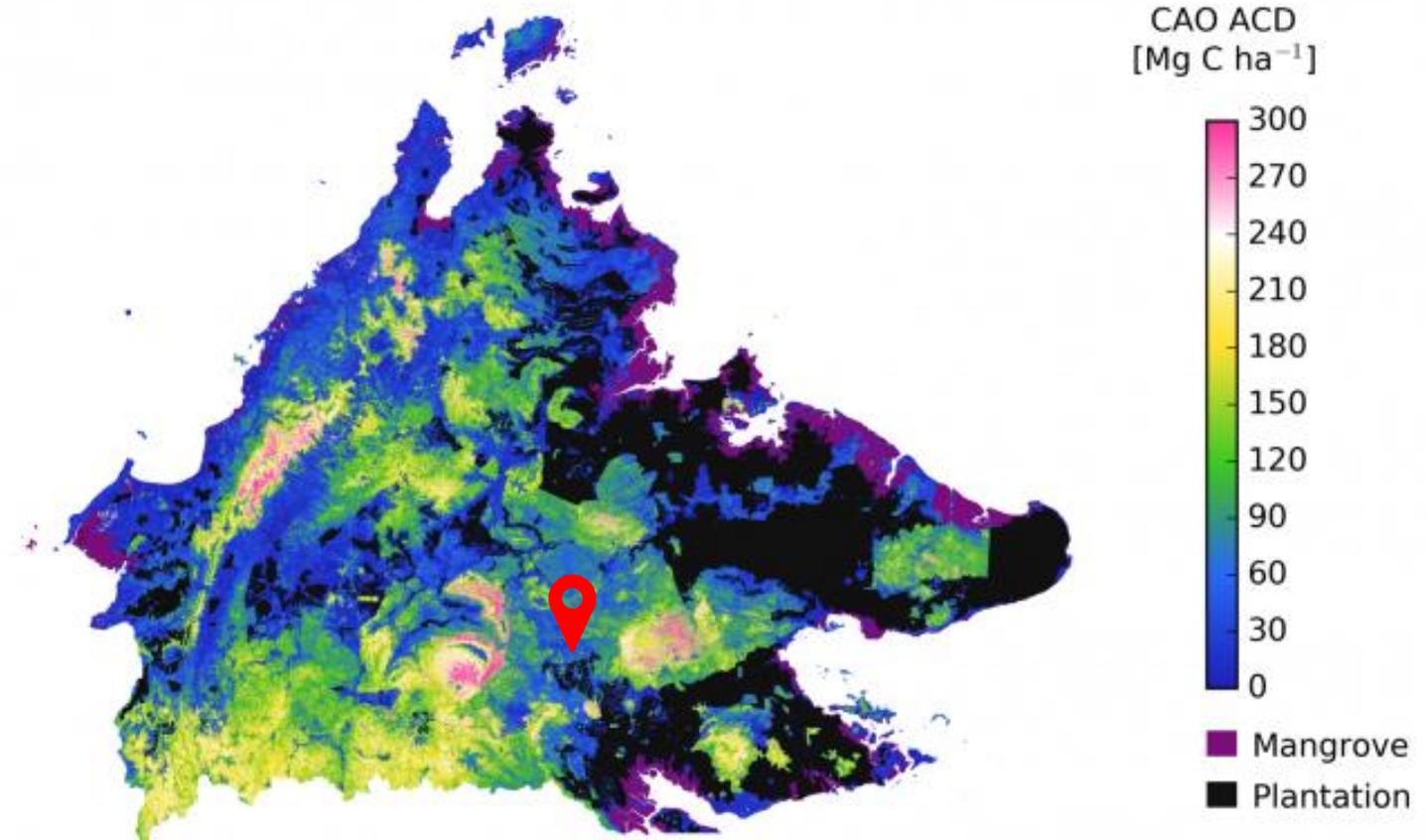
Forest and mangroves keep Sabah carbon negative

## 2 Protected Areas

Over 3 million hectares of conservation zones safeguard biodiversity.

## 3 Mangrove Conservation

Preserving 300,000+ hectares of vital mangrove ecosystems.

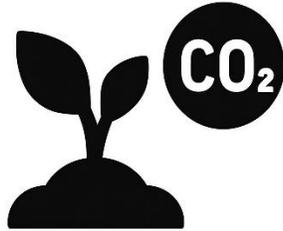


<https://www.oneearth.org/flying-laboratory-reveals-crucial-tropical-forest-conservation-targets-in-borneo/>



### Sabah's first forest certified carbon project:

The Kuamut Conservation Project (83,000 ha in Sabah) is preventing ~**0.8 million tCO<sub>2</sub>e** per year through avoided logging and forest regrowth



## Voluntary Carbon Markets

- Sabah natural ecosystems create access to voluntary carbon markets (VCM)
- Framework currently being developed

**Nature-Based Solutions**  
~20 MtCO<sub>2</sub>e/year (2 mil ha rainforest)



## Renewable Energy Certificates

Potential for RE projects to generate Renewable Energy Certificates (RECs)

**Potential REC**  
1,000 GWh (2025)  
3,000 GWh (2030)  
8,000 GWh (2035)



## Dual Revenue Streams

Earn from both electricity sales (plus RECs) and certified carbon credits (from forests, mangroves, etc).

# Thank you

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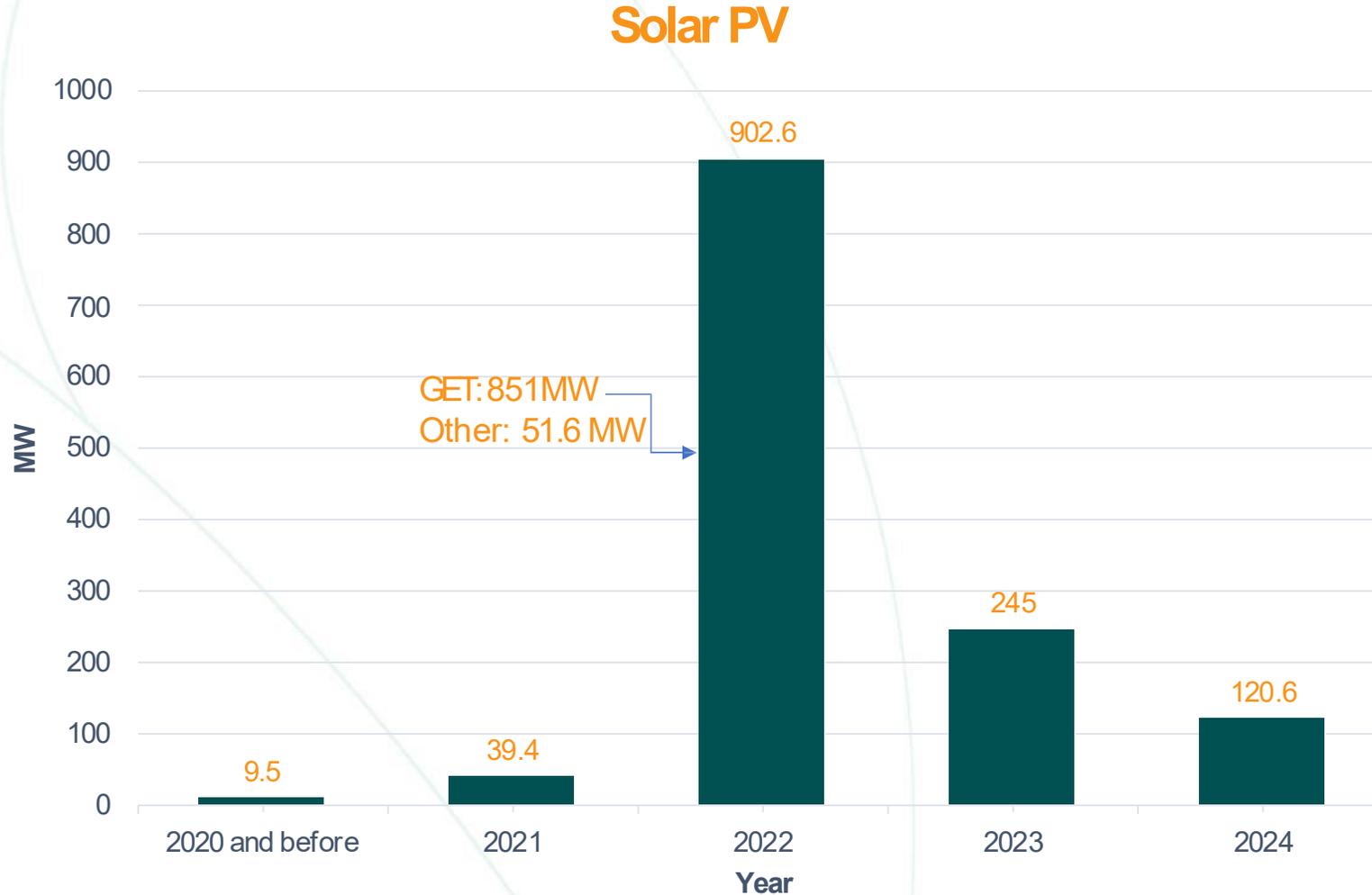
**SAXON**  
**RENEWABLES**

REM 2025

Market Spotlight: Malaysia

29<sup>th</sup> April 2025

# Total I-REC Registered Solar PV Capacity in Malaysia

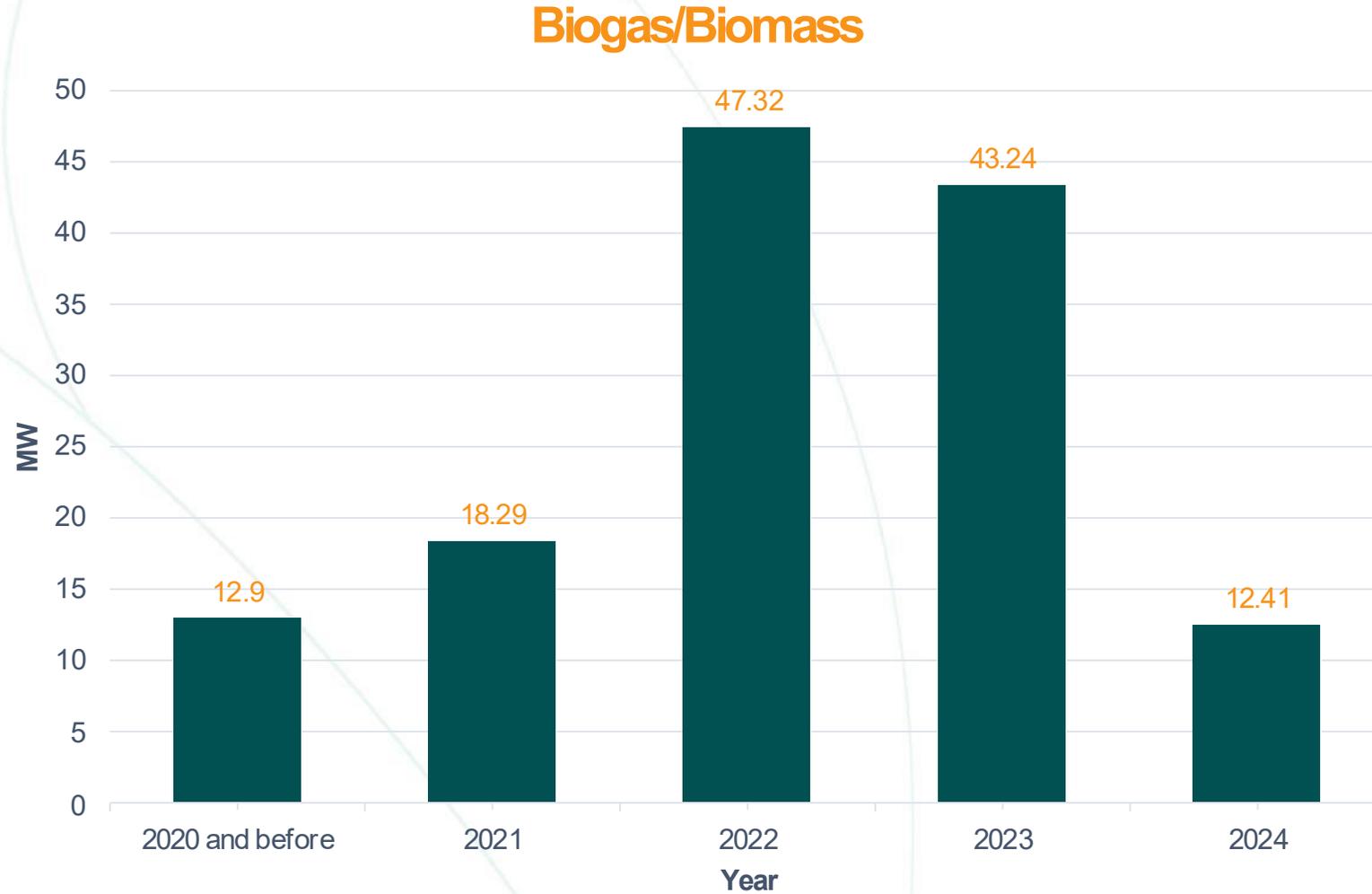


**Malaysia's I-REC Solar PV Capacity: 1,317.05 MW**

GET: 901.37 MW  
Other: 415.68 MW

*\*Total TIGR Solar PV Capacity: 253.43 MW*

# Total I-REC Registered Bioenergy Capacity in Malaysia



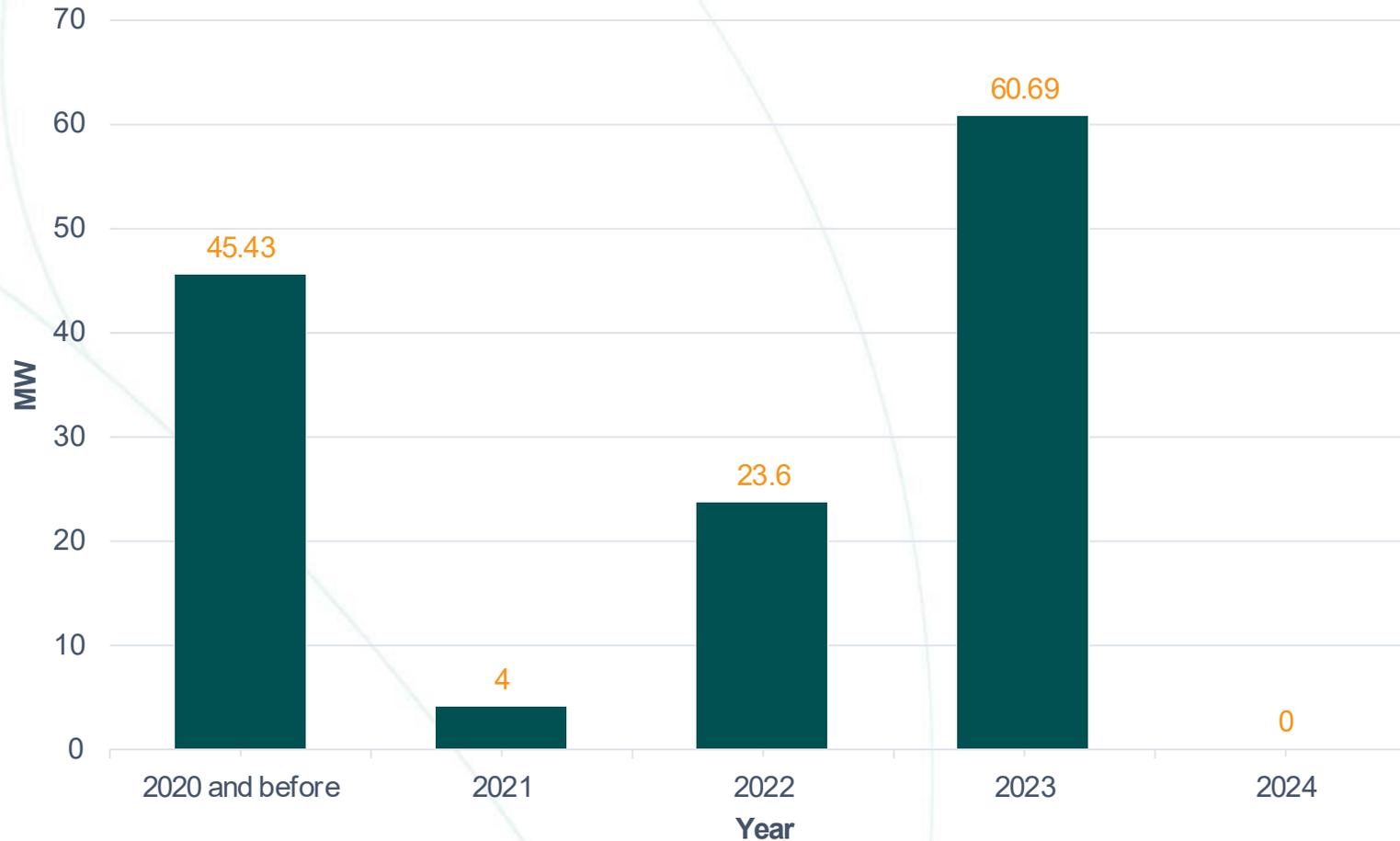
**Malaysia's I-REC Bioenergy Capacity: 134.14 MW**

*\*Total TIGR Bioenergy Capacity: 2.4 MW*

# Total I-REC Registered Small Hydro Capacity in Malaysia



## Small Hydro <30MW (I-REC)



**Malaysia's I-REC Small Hydro Capacity: 133.71 MW**

GET: 14.60 MW

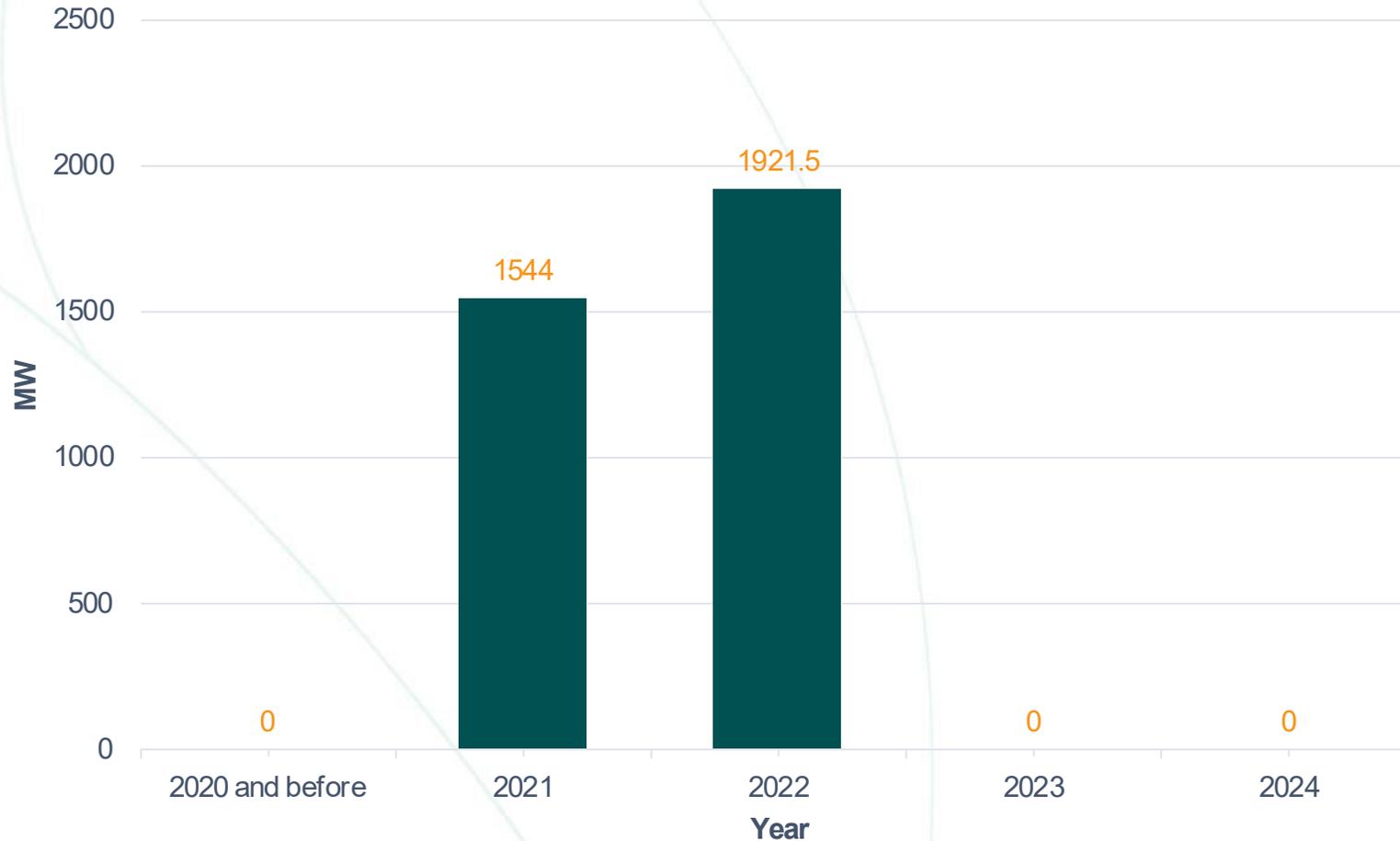
Other: 119.11 MW

*\*Total TIGR Small Hydro Capacity: 0 MW*

# Total I-REC Registered Large Hydro Capacity in Malaysia



## Large Hydro >30MW (I-REC)



**Malaysia's I-REC Large Hydro Capacity: 3,465.5 MW**

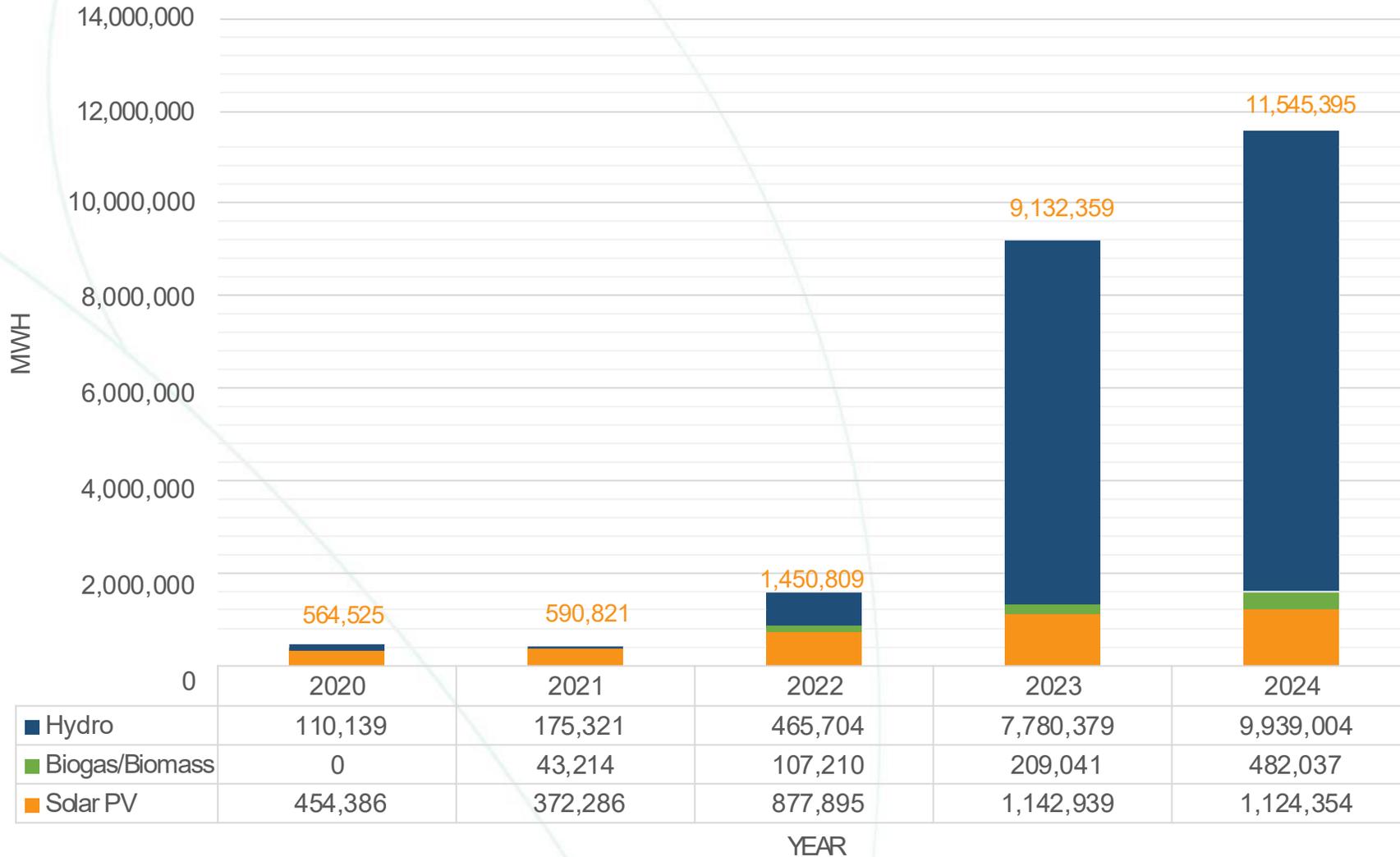
GET: 2,521.50 MW  
Other: 944 MW

*\*Total TIGR Large Hydro Capacity: 108 MW*

# Total I-REC Redemptions (Malaysia)



## Total I-REC Redemptions



I-REC Redemptions Grew **530%** YoY in 2023, Sustaining **114%** CAGR (2020–2024)

Projected 2030 Redemptions: **~24,300,000 MWh**

# Solar PV Capacity in Malaysia (2025 Update)



## C&I & Residential

Scheme	Estimate Capacity (MW)	COD Target Year
Feed-in Tariff (FiT)	387 MW	2017
NEM 1.0 & 2.0	495 MW	2016–2020
NEM 3.0 (Rakyat)	600 MW	2021–2025
NEM 3.0 (Gomen)	100 MW	2021–2025
NEM 3.0 (NOVA)	1,700 MW	2021–2025
SelCo (Estimate)	~1,000 MW*	2017–2025
Total	~4,282 MW	

## Large Scale Solar

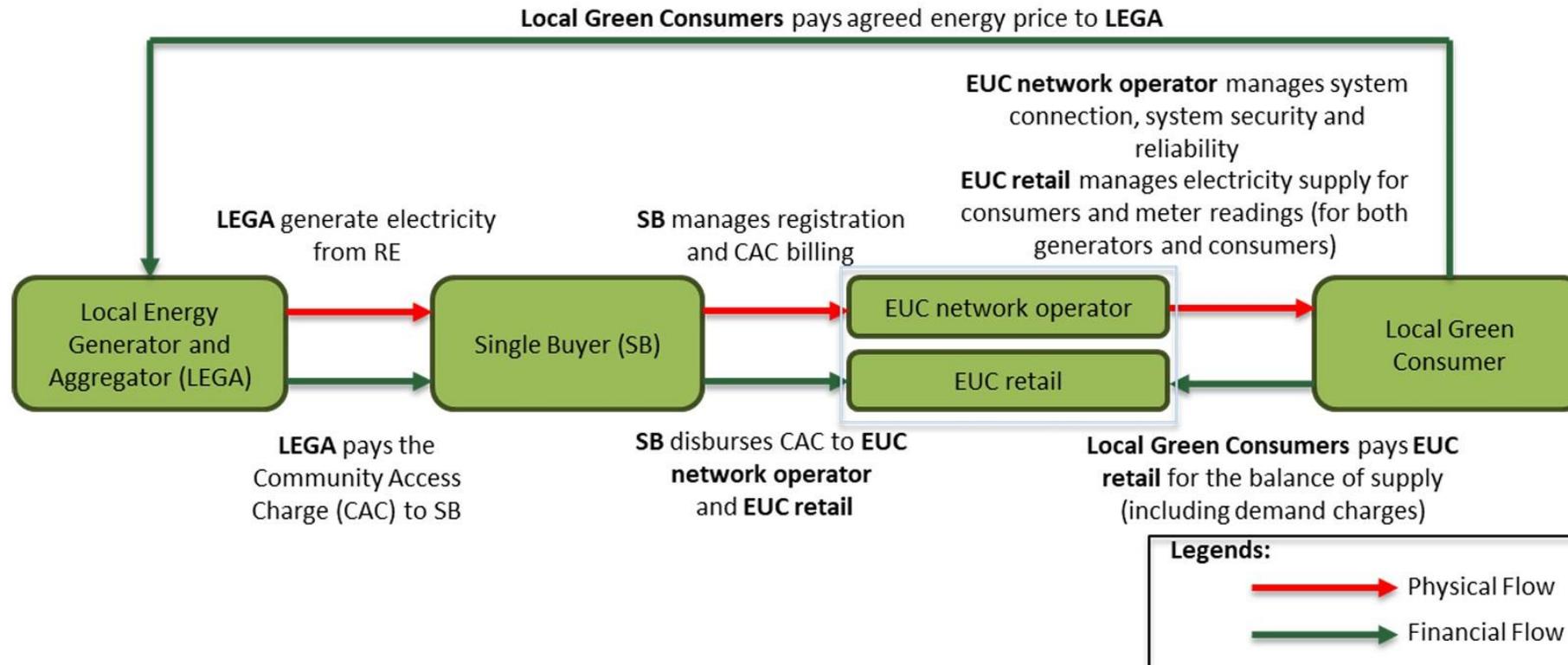
Scheme	Estimate Capacity (MW)	COD Target Year
LSS Fast Track	250 MW	2017–2018
LSS1	371 MW	2017–2018
LSS2	522 MW	2019–2020
LSS3	491 MW	2021
LSS4 Mentari	823 MW	2022–2023
CGPP	800 MW	2025
LSS5	2,000 MW	2026–2027
LSS6	2,000 MW	2027
Total	~7,257 MW	

Capacity estimates reflect announced quotas/awards, not operational status.

# Community Renewable Energy Aggregation Mechanism (CREAM)



Announced on 7 Feb 2025, CREAM incentivizes rooftop solar leasing, enabling communities to generate clean energy and earn income by selling excess power to Local Green Consumers.



# Community Renewable Energy Aggregation Mechanism (CREAM)



## CREAM Program Overview

Objective: Boost community RE participation by leasing rooftops for solar PV.

Incentive: Earn income by selling excess solar power to Local Green Consumers.

## LEGA (Lessor)

- Can contract with multiple Local Green Consumers (up to max export capacity).
- Capacity: Min. 100kWp, Max. 2MWp per installation.

## Local Green Consumer

- Can buy green energy from multiple LEGAs within ~5 km radius.
- Max energy capped per CREAM agreement.

**Community Access Charge (CAC):** RM0.15/kWh (fee for grid access).

## Timeline

- Applications open from 1 June 2025.

## Impact:

- Empowers communities to generate clean energy + earn income.
- Expands Malaysia's decentralized renewable energy market.

# Thank You

Sustainability is not just about our future, but the future of generations yet to come.

## Address

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An aerial photograph of a city skyline, likely Kuala Lumpur, Malaysia, featuring numerous skyscrapers and a prominent rainbow in the sky. The text is overlaid on the top left of the image.

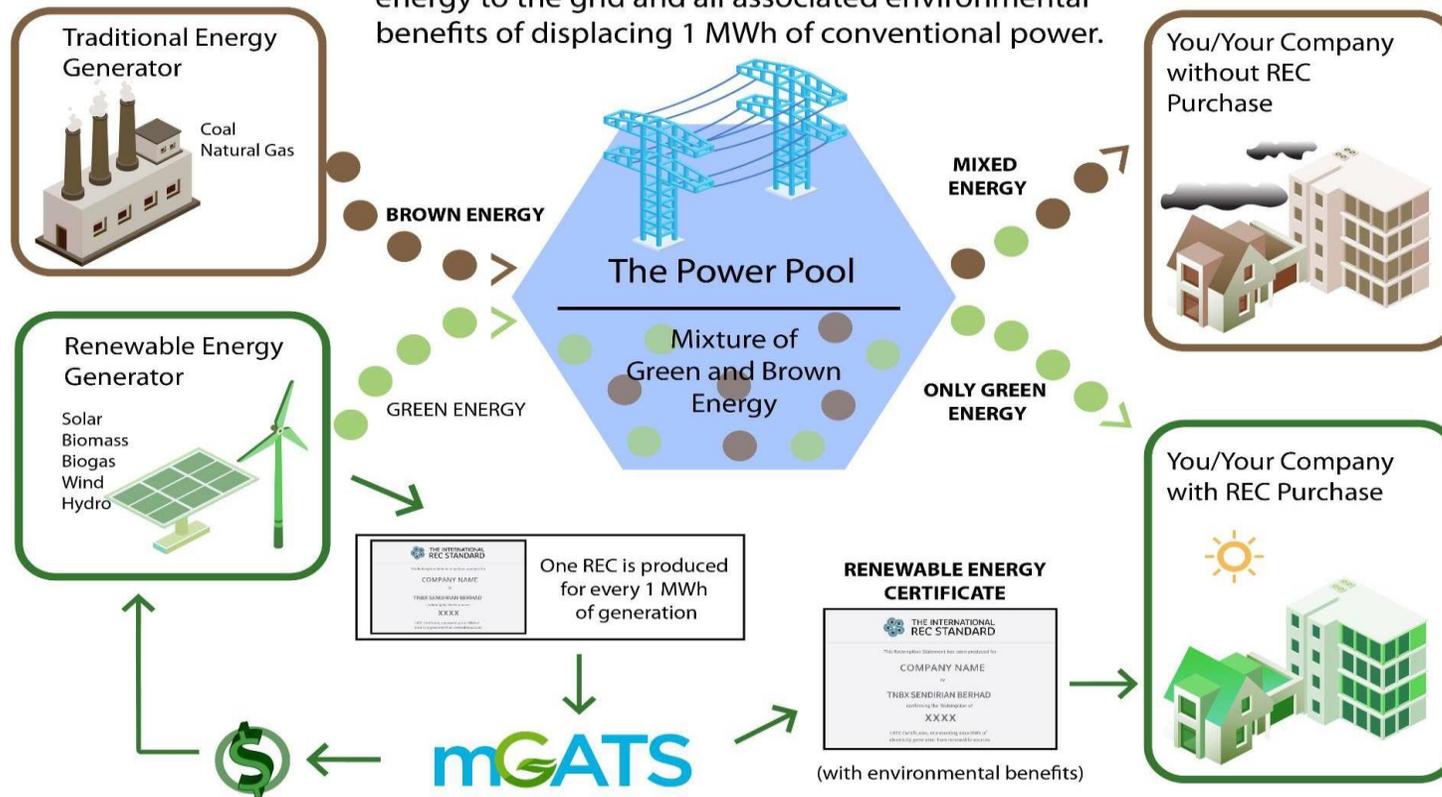
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*Ir. Mohd Razif Abd Halim  
Singapore, 29<sup>th</sup> April*

**Green Electricity Tariff (GET)** helps your organization/company to avoid this Scope 2 GHG electricity emission through **bundling** of the Malaysia REC(mREC) onto your **electricity bill**



A REC represents delivery of 1 MWh of renewable energy to the grid and all associated environmental benefits of displacing 1 MWh of conventional power.



## Green Electricity Tariff (GET) 2025 Key Features

### GET Quota



- The renewable energy resources for GET Programme is generated by **solar power plants under the Large-Scale Solar (LSS) Programme** and TNB's and/or its subsidiary's **hydropower stations** and any other renewable energy plants.
- Total subscription from all consumers must not exceed a monthly Green Energy quota as verified by the Energy Commission. Annual **Green Energy Quota for 2025 is 6,600GWh.**

### Subscription



- **Consumers** who subscribe to the GET program in 2024 **will not be charged with Imbalance Cost Pass-Through (ICPT) charges for actual green energy units used**
- GET subscription **lock-in period is until 31st December every year** and GET subscription renewal is **automatic every year** for a period of one year **if no termination of subscription is done;**

### Application



- Subscription can be made from **March 2025** through **myTNB portal** and consumers **are allowed to backdate their subscription starting from 1st January 2025.**
- **Application is based on a first-come, first-served basis.**

### GET Contract



- ❑ All consumers who wish to enroll for GET must enter into **Green Electricity Tariff Agreement** and **Terms and Conditions** as per Green Electricity Tariff Guideline
- ❑ **GET terms & conditions are subjected to Government revision** from time to time.

## Product and Price – what are the key changes in GET 2025 vs GET 2024?



Rate

Cust. Category	Rate
HV MV (C, E, F, H)	20c/kWh
LV (A, B, D, G, H)	10c/kWh

Cust. Category	Rate (1 yr)	Rate (2 yr)	Rate (3 yr)
HV MV (C, E, F, H)	20c/kWh	19c/kWh	18c/kWh
LV (A, B, D, G, H)	10c/kWh	9c/kWh	8c/kWh

Term

- 1 year auto-renewal
- Cannot reduce or terminate before 31<sup>st</sup> Dec
- Start from date of subscription

- Option for 1, 2 or 3 years at different pricing
- Can reduce or terminate any time at a penalty until term ends (at 2c/kWh)
- Can backdate to 1<sup>st</sup> Jan or date of subscription

Opt-out

Backdate

The latest changes of GET 2025 allows green corporate and industrial customers to obtain green electricity bundled with mREC at a longer term and lower rate

# How GET program grow the green energy market



## 3 GET program providing additionality in large scale through contributing to the SolaRIS program

**KEMENTERIAN PERALIHAN TENAGA DAN TRANSFORMASI AIR**

**KENYATAAN MEDIA**

**PERMOHONAN KUOTA NEM RAKYAT DIBUKA SEMULA, HALA TUJU PELAKSANAAN SOLAR DI BUMBUNG LEBIH MENYELURUH BAKAL DITETAPKAN**

**KUALA LUMPUR, 25 November 2024-** Permohonan kuota bagi Program *Net Energy Metering (NEM)* untuk kategori domestik atau NEM Rakyat akan dibuka semula pada 25 November 2024, dengan jumlah kuota tambahan sebanyak 50MW. Penambahan ini menjadikan jumlah kuota keseluruhan untuk NEM Rakyat sejak pelaksanaannya pada tahun 2011 adalah sebanyak 450MW. Kuota NEM Rakyat sebelum ini telah habis dipohon pada awal bulan November 2024.

Selain itu, bagi menyokong usaha syarikat korporat untuk memenuhi komitmen Alam Sekitar, Sosial dan Tadbir Urus (ESG) dari aspek pembekalan elektrik hijau, kuota kategori NEM NOVA untuk pengguna komersial dan industri juga akan ditingkatkan sebanyak 300MW lagi kepada 1,400MW.

Memandangkan sambutan yang menggalakkan, Kementerian Peralihan Tenaga dan Transformasi Air (PETRA) telah memutuskan untuk menambah kuota untuk NEM Rakyat dan NEM NOVA agar lebih ramai pengguna boleh memanfaatkan ruang bumbung bangunan untuk pemasangan sistem solar PV. Perambahan kuota ini juga selaras dengan pengumuman Belanjawan 2025 untuk melanjutkan tempoh pelaksanaan

PETRA 100-0114 (55)

### SolaRIS Features

- ✓ **One time cash rebate** : RM1,000/kWac up to a **maximum of RM4,000** for NEM Rakyat customers who apply and obtain approval from 1 April 2024 onwards.  
*\*Subject to the terms and conditions of the SolaRIS programme.*
- ✓ Rebate allocation is on a **first come, first served basis** from 1 April until 31 December 2024 and successfully commission their solar PV system installations by 31 March 2025, or until all SolaRIS rebate quotas are fully distributed, whichever comes first.
- ✓ The rebate will be transferred to the preferred local bank account under the registered TNB customer after receiving an email from TNB for SolaRIS application.

### SolaRIS Eligibility

- TNB Residential Customers (Tariff A)**  
**\*Exclude businesses**
- Successful first time NEM Rakyat applicants from 1 April 2024 onwards**
- Malaysian citizens**

*\*Each customer is entitled to only ONE rebate*

# Why is the GET program for YOU?



## 1. NST Online – 19<sup>th</sup> August 2024

### Miti looking at imposing carbon tax to spur green investments in the country - Tengku Zafrul

By Diyana Isamudin - August 19, 2024 @ 3:53pm

The Ministry of Investment, Trade and Industry (MITI) is looking into carbon tax implementation to encourage green investment in the country, particularly involving sectors that produce high carbon emissions. (Bernama/Photo)

**KUALA LUMPUR:** The Ministry of Investment, Trade and Industry (MITI) is looking into carbon tax implementation to encourage green investment in the country, particularly involving sectors that produce high carbon emissions.

Its minister, Tengku Datuk Seri Zafrul Abdul Aziz said the carrot and stick approach (reward and punishment) is crucial in ensuring transparency and a fair environment for businesses.

In term of punishment, he said all developed countries are more towards carbon tax.

## 2. The Star Online – 18<sup>th</sup> October 2024

Budget 2025: Govt to introduce carbon tax on iron, steel and energy industries by 2026

### Budget 2025: Govt to introduce carbon tax on iron, steel and energy industries by 2026



#### BUSINESS

Friday, 18 Oct 2024

8:51 PM MYT

#### Related News

**KUALA LUMPUR:** The government will introduce a carbon tax on the iron and steel as well as energy industries by 2026.

Prime Minister Datuk Seri Anwar Ibrahim, who is also the Finance Minister, said the tax is aimed at promoting the use of low-carbon technologies.

"Revenue generated from this tax will be used to fund green research and technology programmes," he said when tabling Budget 2025 in the Dewan Rakyat here today.

# Information on GET Programme

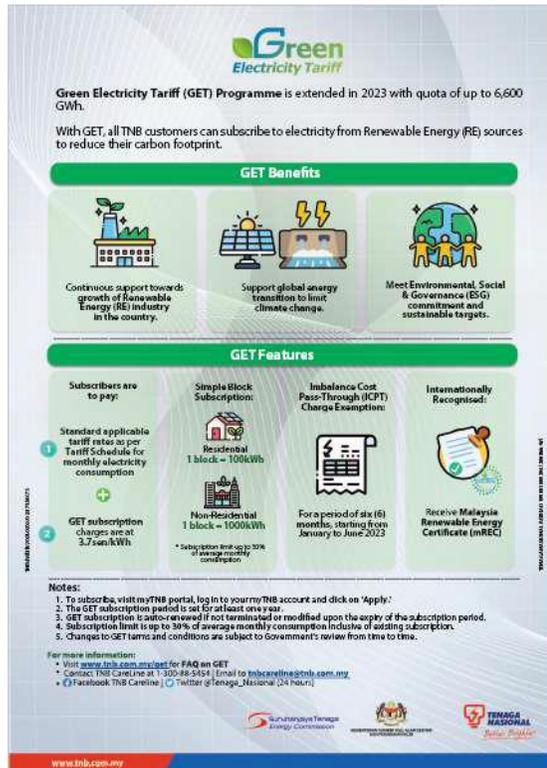
<https://www.tnb.com.my/get>

<https://www.mytnb.com.my>

<https://www.mgats.com.my>

## GET Video

<https://www.youtube.com/watch?v=IBEH7xcKw8k>



**Green Electricity Tariff**

Green Electricity Tariff (GET) Programme is extended in 2023 with quota of up to 6,600 GWh.

With GET, all TNB customers can subscribe to electricity from Renewable Energy (RE) sources to reduce their carbon footprint.

**GET Benefits**

- Continuous support towards growth of Renewable Energy (RE) industry in the country.
- Support global energy transition to limit climate change.
- Meet Environmental, Social & Governance (ESG) commitment and sustainable targets.

**GET Features**

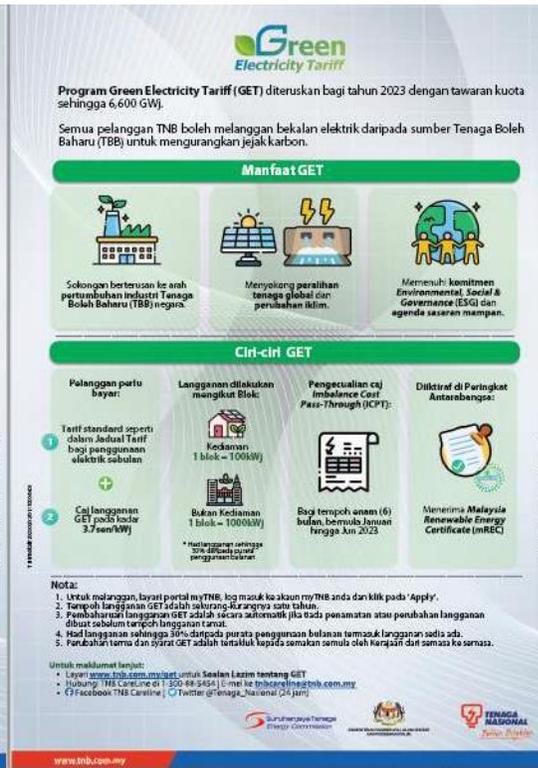
- Subscribers are to pay: Standard applicable tariff rates as per Tariff Schedule for monthly electricity consumption.
- GET subscription charges are at 3.7 sen/kWh.
- Simple Block Subscription: Residential 1 block = 100kWh, Non-Residential 1 block = 1000kWh. \* Subscription limit up to 30% of average monthly consumption.
- Imbalance Cost Pass-Through (ICPT) Charge Exemption: For a period of six (6) months, starting from January to June 2023.
- Internationally Recognised: Receive Malaysia Renewable Energy Certificate (mREC).

**Notes:**

- To subscribe, visit myTNB portal, log in to your myTNB account and click on 'Apply'.
- The GET subscription period is set for at least one year.
- GET subscription is auto-renewed if not terminated or modified upon the expiry of the subscription period.
- Subscription limit is up to 30% of average monthly consumption inclusive of existing subscription.
- Changes to GET terms and conditions are subject to Government's review from time to time.

**For more information:**

- Visit [www.tnb.com.my/get](https://www.tnb.com.my/get) for FAQ on GET
- Contact TNB CareLine at 1-300-88-8454 | Email to [tnbcareline@tnb.com.my](mailto:tnbcareline@tnb.com.my)
- Facebook: TNB Careline | Twitter: @tenaga\_nasional | 24 hours



**Green Electricity Tariff**

Program Green Electricity Tariff (GET) diteruskan bagi tahun 2023 dengan tawaran kuota sehingga 6,600 GWh.

Semua pelanggan TNB boleh melanggan bekalan elektrik daripada sumber Tenaga Boleh Baharu (TBB) untuk mengurangkan jejak karbon.

**Manfaat GET**

- Selangan berterusan ke arah pertumbuhan Industri Tenaga Boleh Baharu (TBB) negara.
- Melayari peralihan tenaga global dan perubahan iklim.
- Memenuhi komitmen Environmental, Social & Governance (ESG) dan agenda sasaran mampan.

**Ciri-ciri GET**

- Pelanggan perlu bayar: Tarif standard seperti dalam Aduai Tarif bagi penggunaan elektrik sabutan.
- Langganan dilakukan mengikut Blok: Kediaman 1 blok = 100kWh, Bukan Kediaman 1 blok = 1000kWh. \* Had langganan sehingga 30% daripada purata penggunaan bulanan.
- Pengecualian caj Imbalance Cost Pass-Through (ICPT): Bagi tempoh enam (6) bulan, bermula Januari hingga Jun 2023.
- Diktiraf di peringkat Antarabangsa: Menerima Malaysia Renewable Energy Certificate (mREC).

**Notes:**

- Untuk melanggan, layari portal myTNB, log masuk ke akaun myTNB anda dan klik pada 'Apply'.
- Tempoh langganan GET adalah sekurang-kurangnya satu tahun.
- Pembaharuan langganan GET adalah secara automatik jika tiada pemastan atau perubahan langganan dibuat sebelum tempoh langganan tamat.
- Had langganan sehingga 30% daripada purata penggunaan bulanan termasuk langganan sedia ada.
- Perubahan terma dan syarat GET adalah tera klik kepada semakan semula oleh Kerajaan dari semasa ke semasa.

**Untuk maklumat lanjut:**

- Layari [www.tnb.com.my/get](https://www.tnb.com.my/get) untuk Sejalan Lazim tentang GET
- Hubungi TNB CareLine di 1-300-88-8454 | E-mel ke [tnbcareline@tnb.com.my](mailto:tnbcareline@tnb.com.my)
- Facebook: TNB Careline | Twitter: @tenaga\_nasional | 24 jam

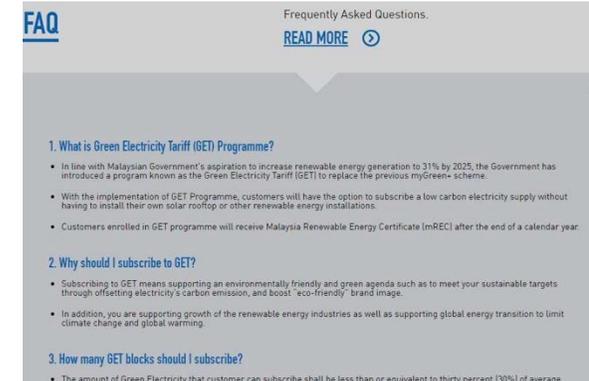
GET Infographic



Welcome to myTNB

- myTNB Registration
- GET Subscription

## myTNB User Guideline



FAQ

Frequently Asked Questions.

[READ MORE](#)

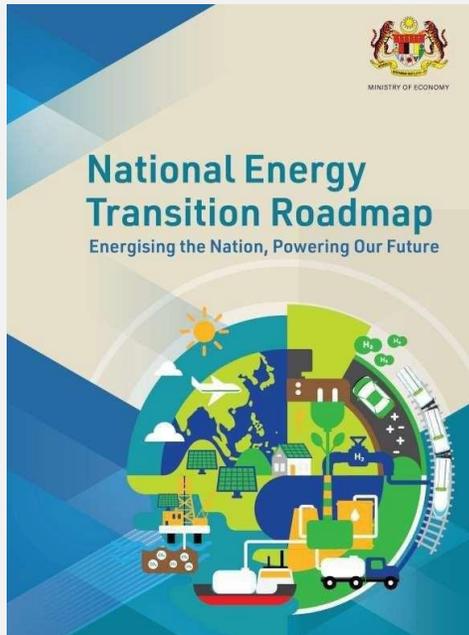
- What is Green Electricity Tariff (GET) Programme?**
  - In line with Malaysian Government's aspiration to increase renewable energy generation to 31% by 2025, the Government has introduced a program known as the Green Electricity Tariff (GET) to replace the previous myGreen+ scheme.
  - With the implementation of GET Programme, customers will have the option to subscribe a low carbon electricity supply without having to install their own solar rooftop or other renewable energy installations.
  - Customers enrolled in GET programme will receive Malaysia Renewable Energy Certificate (mREC) after the end of a calendar year.
- Why should I subscribe to GET?**
  - Subscribing to GET means supporting an environmentally friendly and green agenda such as to meet your sustainable targets through offsetting electricity's carbon emission, and boost 'eco-friendly' brand image.
  - In addition, you are supporting growth of the renewable energy industries as well as supporting global energy transition to limit climate change and global warming.
- How many GET blocks should I subscribe?**
  - The amount of Green Electricity that customer can subscribe shall be less than or equivalent to thirty percent (30%) of average

## GET FAQ



# National Energy Transition Roadmap (NETR)

## Develop TPA framework for sourcing RE was identified as one of the 6 initiatives under Renewable Energy Lever



Key Initiatives		
Energy Transition Lever: Renewable Energy		
Code	Initiatives	Cham
RE1	<b>Establish solar parks for accelerated deployment of utility-scale solar</b> <ul style="list-style-type: none"> <li>Identify suitable plots of land for development of solar parks through close collaboration among federal government, state governments and utility companies to enable decarbonisation of hard-to-abate industries</li> <li>Enhance current LSS mechanism to improve financial sustainability for developers</li> </ul>	NRECC, ST, MEESty, ECoS, SEDA
RE2	<b>Promote floating solar and agrivoltaic technology</b> <ul style="list-style-type: none"> <li>Remove existing regulatory barrier inhibiting floating solar and agrivoltaic (e.g. to amend existing hydropower power purchase agreements)</li> <li>Roll out clear guidelines for floating solar and agrivoltaic</li> <li>Adopt distinct bidding categories in future LSS auction to ensure fair competition</li> </ul>	
RE3	<b>Expand virtual aggregation model for rooftop solar</b> <ul style="list-style-type: none"> <li>Expand virtual aggregation mechanism (e.g. NOVA program) to government and residential buildings for leasing and aggregation of rooftop space and sale to offtakers</li> <li>Scale-up corporate and industrial solar rooftop programme</li> </ul>	
RE4	<b>Develop plan for accelerated investments of transmission and distribution</b> <ul style="list-style-type: none"> <li>Establish amount, timing and mode of funding for grid infrastructure investment to reduce grid constraints while balancing energy trilemma (Exhibit 5.3)</li> <li>Provide incentives for RE development and power storage facilities to improve system flexibility and address RE intermittency</li> </ul>	NRECC, ST & TNB, MEESty & SEB, ECoS & SESB
RE5	<b>Develop TPA framework for sourcing of RE</b> <ul style="list-style-type: none"> <li>Develop TPA framework with transparent mechanism for wheeling fee calculation to bridge demand-supply gap for green electricity</li> <li>Allow solar developers amongst Corporate Green Power Programme (CGPP) to sell excess power to the Single Buyer - unlocking additional sources of revenue and boosting investor interest</li> </ul>	NRECC, ST & TNB
RE6	<b>Set up RE exchange hub to enable cross-border RE trading</b> <ul style="list-style-type: none"> <li>Establish physical enabler (e.g. special purpose vehicle) to act as the market aggregator</li> <li>Develop regulations for implementation of RE exchange hub and cross-border RE trading</li> <li>Establish new or upgrade interconnection with neighbouring countries</li> <li>Monetise excess power generated through bi- or multi-lateral power trading arrangements with neighbouring countries</li> </ul>	NRECC, ST

**RE5**

**Develop TPA framework for sourcing of RE**

- Develop TPA framework with transparent mechanism for wheeling fee calculation to bridge demand-supply gap for green electricity
- Allow solar developers amongst Corporate Green Power Programme (CGPP) to sell excess power to the Single Buyer - unlocking additional sources of revenue and boosting investor interest

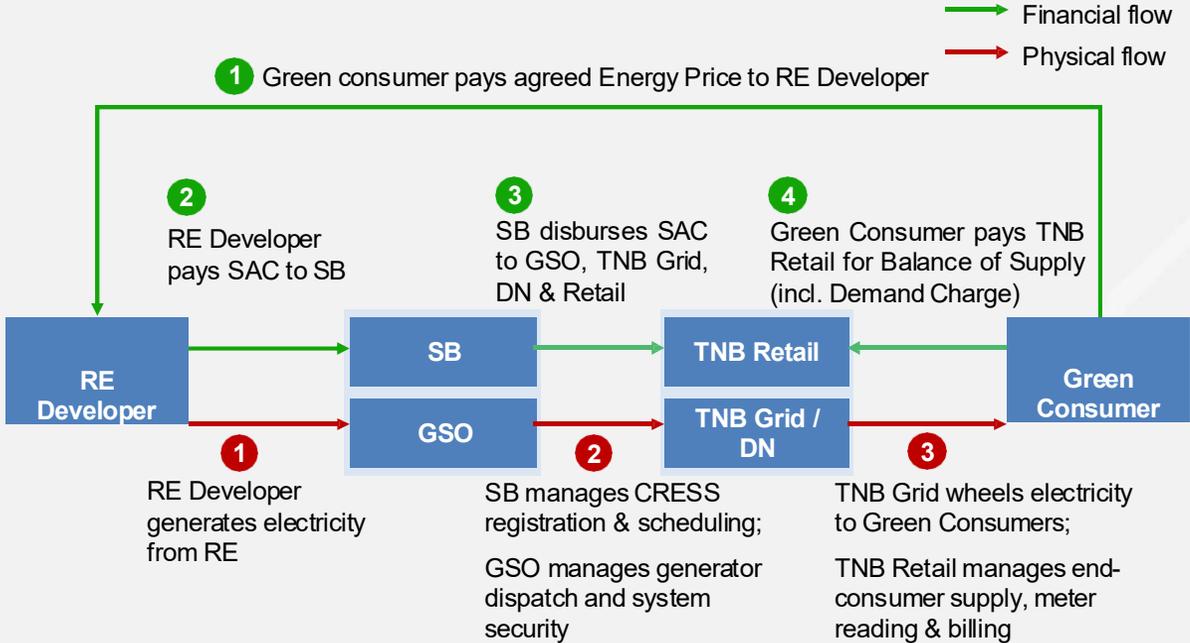
NRECC  
ST & TNB

The Corporate Renewable Energy Supply Scheme (CRESS) under the TPA framework is designed to facilitate the transition to renewable energy sources for businesses. It provides a structured approach for companies to procure renewable energy, helping them meet sustainability goals while ensuring cost-effectiveness and reliability

**CRESS allows third parties (RE Developers and Green Consumers) to supply or purchase green electricity through TNB's network by paying the System Access Charge (SAC)**



**CRESS framework**



**General rules**

- The application to participate in CRESS is based on open access. However, CRESS participation is subject to the Power System Study (PSS) at the grid nodal point
- RE Developer has **two (2) options to pay SAC to SB:**

25 Firm Output (in sen/kWh)

45 Non-firm Output (in sen/kWh)

\*The above rates are determined and approved by the Government

Acronyms:  
**NEDA:** New Enhanced Dispatch Arrangement (NEDA) is a program which allows non-PPA/SLA Generators such as co-generators, renewable energy generators/producers, embedded generators and expired PPA/SLA Generators to operate as Merchant Generators to sell energy to the Single Buyer (SB)

**SAC:** System Access Charge (SAC) to TNB through Single Buyer (SB) to recover the network costs and TNB's associated services to deliver the energy from RE Developers to the Green Consumers

## Term and Conditions for participating in CREES

### Customer Eligibility



### Contract with Retail



#### RED

- **New** Green Energy Plant by RED for its Green Consumer
- May supply energy to **multiple** Green Consumers
- CRESS application are to be made to Single Buyer through NEDA
- Single Buyer will bill the **System Access Charge** to RED
- RED must enter into **Back feed Agreement** for the sales and purchase of electricity from TNB (categorized as CRESS customer)

#### Green Consumer

- The registered **high voltage** and **medium voltage** consumer of TNB
- Must be an **existing** customer of TNB with new **additional demand** or **new** customers.
- May source Green Electricity from **multiple** RED
- Green Consumer must enter into **Corporate Renewable Energy Supply Agreement (CRESA)** for the sales and purchase of electricity from TNB to effect CRESS
- Green Consumer **must first enter** into principal agreement (**A Form** or **Electricity Supply Agreement-ESA**)

## Term and Conditions for participating in CREES

### Application



### Metering



### RED

- . Proposed One Stop Centre to manage CREES Back feed application
- . Back feed application are to be made to Retail after **Firm Participation Certificate** issued by Single Buyer
- . RED will submit CREES application on behalf to GC
  
- . Meter at RED will measure and record:-
  - a) the energy delivered to the Grid System for CREES billing
  - b) the energy received from Grid System for Back feed billing

### Green Consumer

- . Proposed One Stop Centre to manage CREES application
- . CREES application are to be made to Retail after:-
  - a) For individual application – Issuance of **Connection Charge**
  - b) For individual project application – Issuance of **Stamp Duty**
  
- . Meter at GC will measure and record the energy received from Grid System for CREES billing
- . Meter related for export reading at RED is replicated in system to enable net consumption calculation

## Term and Conditions for participating in CREES

### Billing



#### RED

- RED will be bill as per existing back feed customers

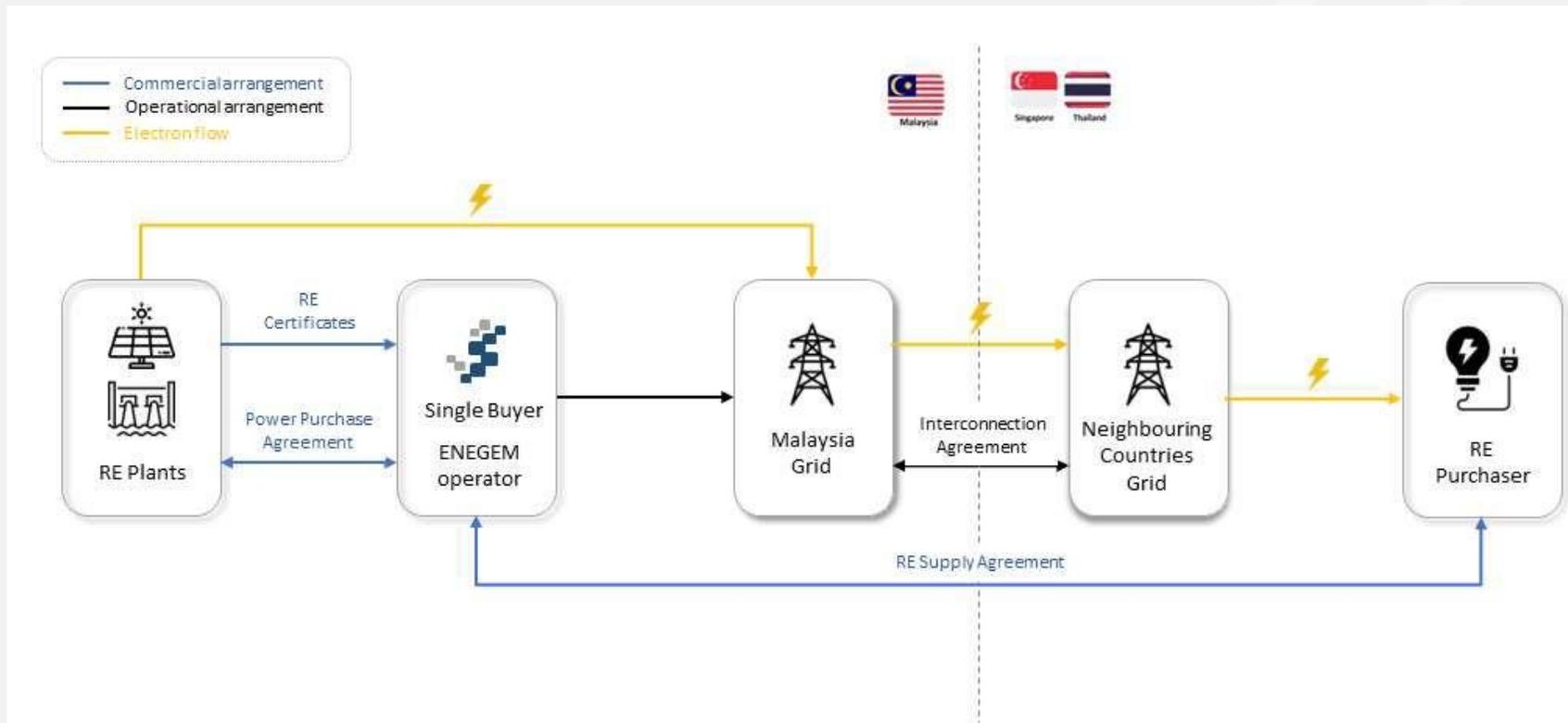
#### Green Consumer

- Energy charge to Green Consumer is based on Net energy between metered Green Consumer and RED
- Energy offsetting mechanism is to offset peak energy and followed by off-peak energy
- Maximum Demand charge is based on gross
- ICPT charge is based on net energy
- No changes to other billing component
- For new GC, RED shall provide energy declaration:
  - a) Declared Maximum Monthly Energy Output (kWh)
  - b) Allocated Percentage to GC (%)
- For existing GC with new additional demand, The minimum threshold energy output will be used for billing calculation based on:
  - $100\% \times \text{existing maximum demand declared} \times 0.52 \text{ (load factor)} \times 730 \text{ (hours)}$

In October 2023, the Government has approved for cross-border sales of renewable energy through an energy exchange to neighboring countries under the Cross-Border Electricity Sales (CBES) for Renewable Energy (RE) scheme.

The Energy Exchange Malaysia (ENEGEM) was then developed as the designated platform to facilitate sales of renewable energy or Green Electricity between Malaysia and neighbouring countries in the region. ENEGEM acts as the marketplace to sell Green Electricity through a bidding mechanism, operated by the Single Buyer.

The framework for this program is as illustrated in Diagram 1



Tenaga Nasional Berhad (TNB) inks the Renewable Energy Supply Agreement (RESA) with Sembcorp Power Pte Ltd, a licensed electricity importer in Singapore, to supply the first 50MW of green electricity via the existing interconnection between these two nations. Signing ceremony took place at Dewan Baiduri, Menara PETRA, Putrajaya on 9 December 2024.

The RESA is the outcome of the first successful bidding exercise conducted on 19 June 2024 under Pilot Phase 1 of Energy Exchange Malaysia (ENEGEM) which is operated by Single Buyer. Sembcorp emerged as one of the winning bidders, securing the first 50MW of renewable energy supply from Malaysia's existing green generation.





Connect with us

# Thank You

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#ElectrifyingTheChange

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# MARKET SPOTLIGHT: MALAYSIA



**Nirinder Singh Johl**  
Founder & CEO  
Asia Carbon Exchange



**Ir. Mohd Razif bin Abd Halim**  
Managing Director  
TNBX



**Reik Ong**  
Managing Director  
Saxon Renewables



**Datuk Ir. Abdul Nasser Abdul Wahid**  
CEO  
Energy Commission of Sabah

Tuesday, 29 April 1:30-2:30 PM



**Renewable Energy  
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