



MINISTRY OF ENERGY TRANSITION AND WATER TRANSFORMATION

# NEW AND RENEWABLE ENERGY DEVELOPMENT IN MALAYSIA

MADAM WAN NIHAYAH BINTI WAN HUSSIN  
PRINCIPAL ASSISTANT SECRETARY



# CONTENTS



## INTRODUCTION

Malaysia's Current Policy



## INITIATIVES

Current RE Initiatives In Malaysia



## TARGETS

Malaysia's Renewable Energy Targets



# ENERGY POLICIES IN MALAYSIA

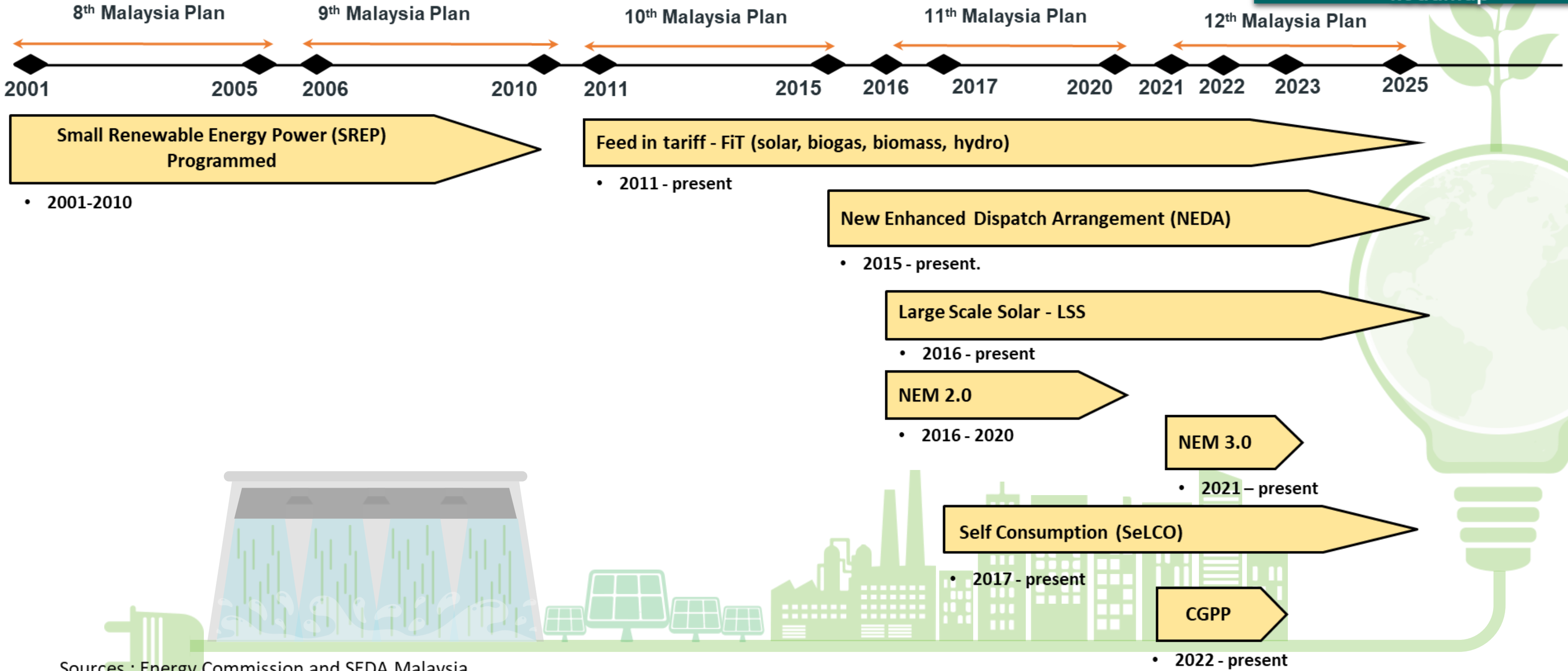
2001 - Five Fuels Policy

2010 - National Renewable Energy Policy and Action Plan

2021 - Malaysia Renewable Energy Roadmap

2022 - National Energy Policy

2023- National Energy Transition Roadmap



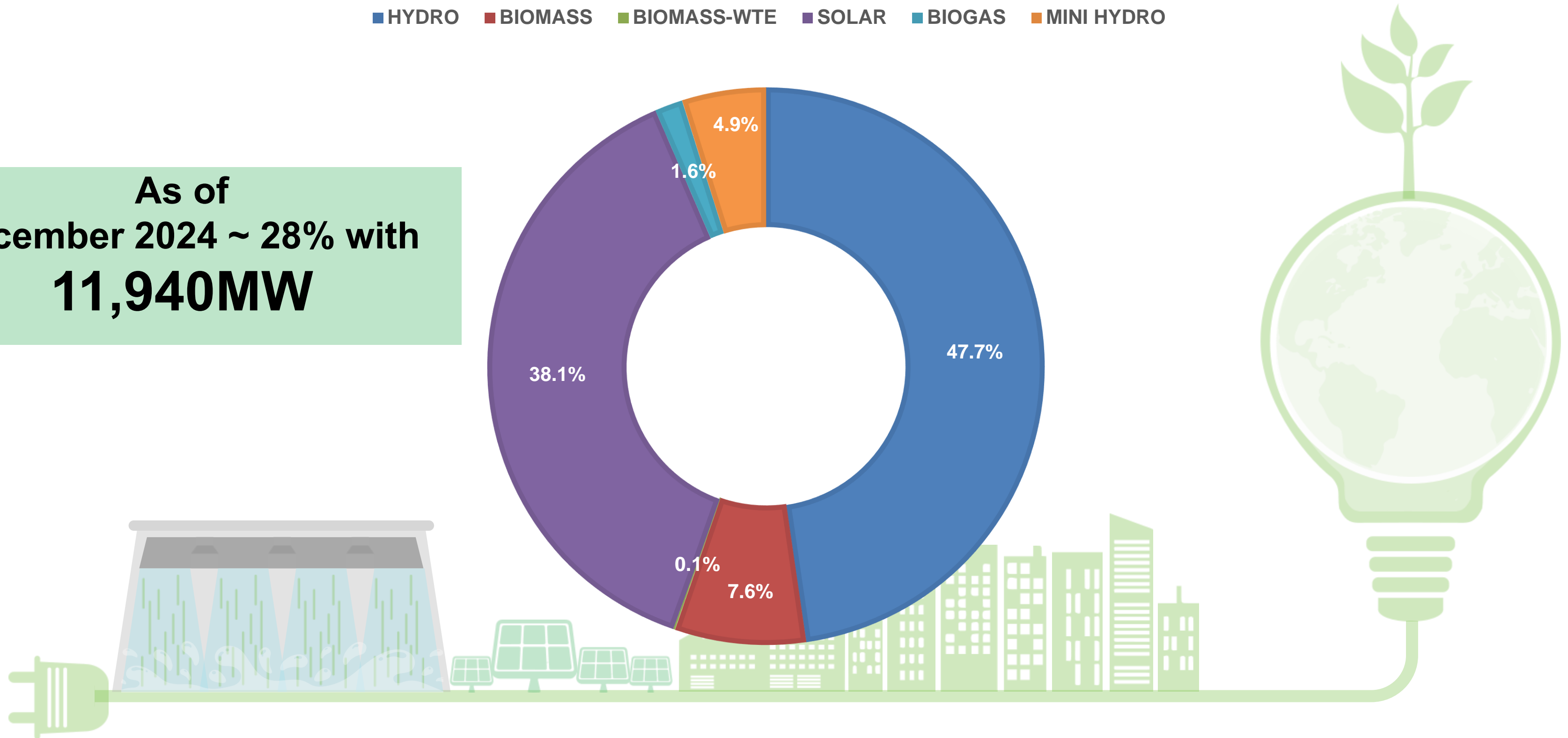
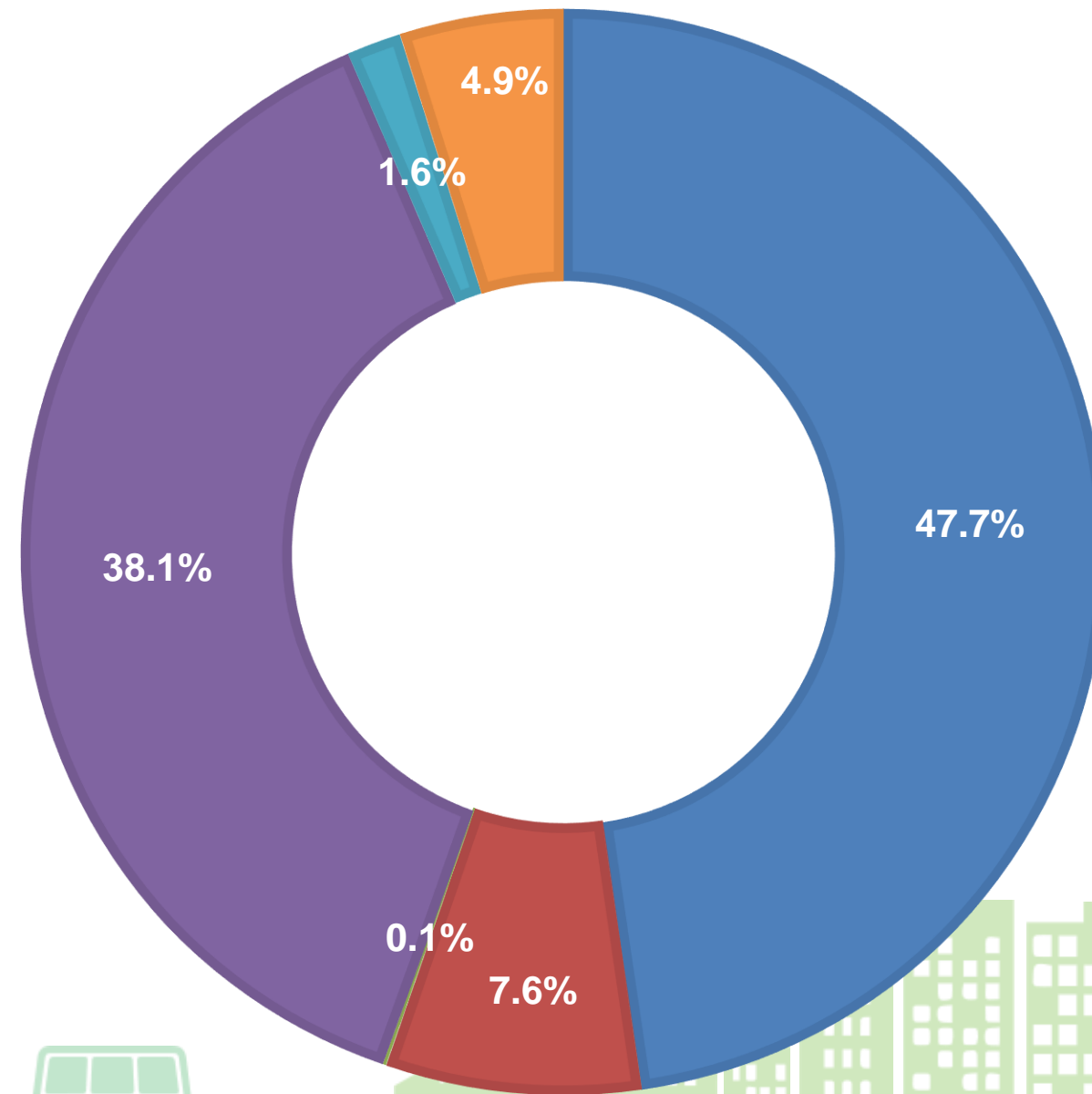
Sources : Energy Commission and SEDA Malaysia

# INSTALLED CAPACITY OF RE IN MALAYSIA

INSTALLED CAPACITY (MW)

■ HYDRO ■ BIOMASS ■ BIOMASS-WTE ■ SOLAR ■ BIOGAS ■ MINI HYDRO

As of  
December 2024 ~ 28% with  
**11,940MW**



# RE INITIATIVES IN MALAYSIA



The basic concept is offering to sell 100% of the energy to utility companies at a premium rate.

This program is limited to non-solar sources and implemented through a bidding process.

Implemented by: **SEDA Malaysia**



The program encourages the installation of solar systems on building rooftops.

It enables electricity consumers to generate electricity from solar PV systems for personal use and to export excess energy to the grid.

Implemented by: **Energy Commission & SEDA Malaysia**



The program promotes the installation of solar systems on building rooftops.

It allows electricity consumers to generate electricity from solar PV systems for personal use

Implemented by : **Energy Commission**



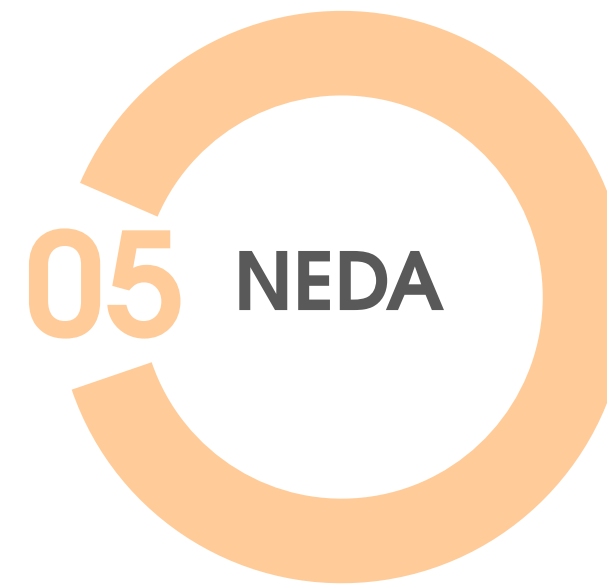
# RE INITIATIVES IN MALAYSIA



The program involves the development of utility-scale solar farms through Power Purchase Agreements (PPA).

Implementation is through a competitive and open bidding process. Four bidding rounds have been conducted.

Implemented by: **Energy Commission**



The program involves the development of utility-scale solar farms through the merchant mechanism (selling electricity without PPA).

Implementation is through a "1st come 1st served" method, with electricity sold at market prices.

Implemented by: **Energy Commission & Single Buyer (under Tenaga Nasional Berhad)**



The "Third Party Access" program allows commercial users to directly access green electricity supply from virtual solar generators.

Implementation is through a "1st come 1st served" method, requiring generators to match green electricity generation with commercial buyers committed to ESG goals.

Implemented by: **Energy Commission & Single Buyer**





# RE INITIATIVES IN MALAYSIA



The program offers direct subscription of green electricity supply to TNB consumers.

It provides a subscription offer of green electricity supply to TNB consumers who need to fulfill their ESG commitments.

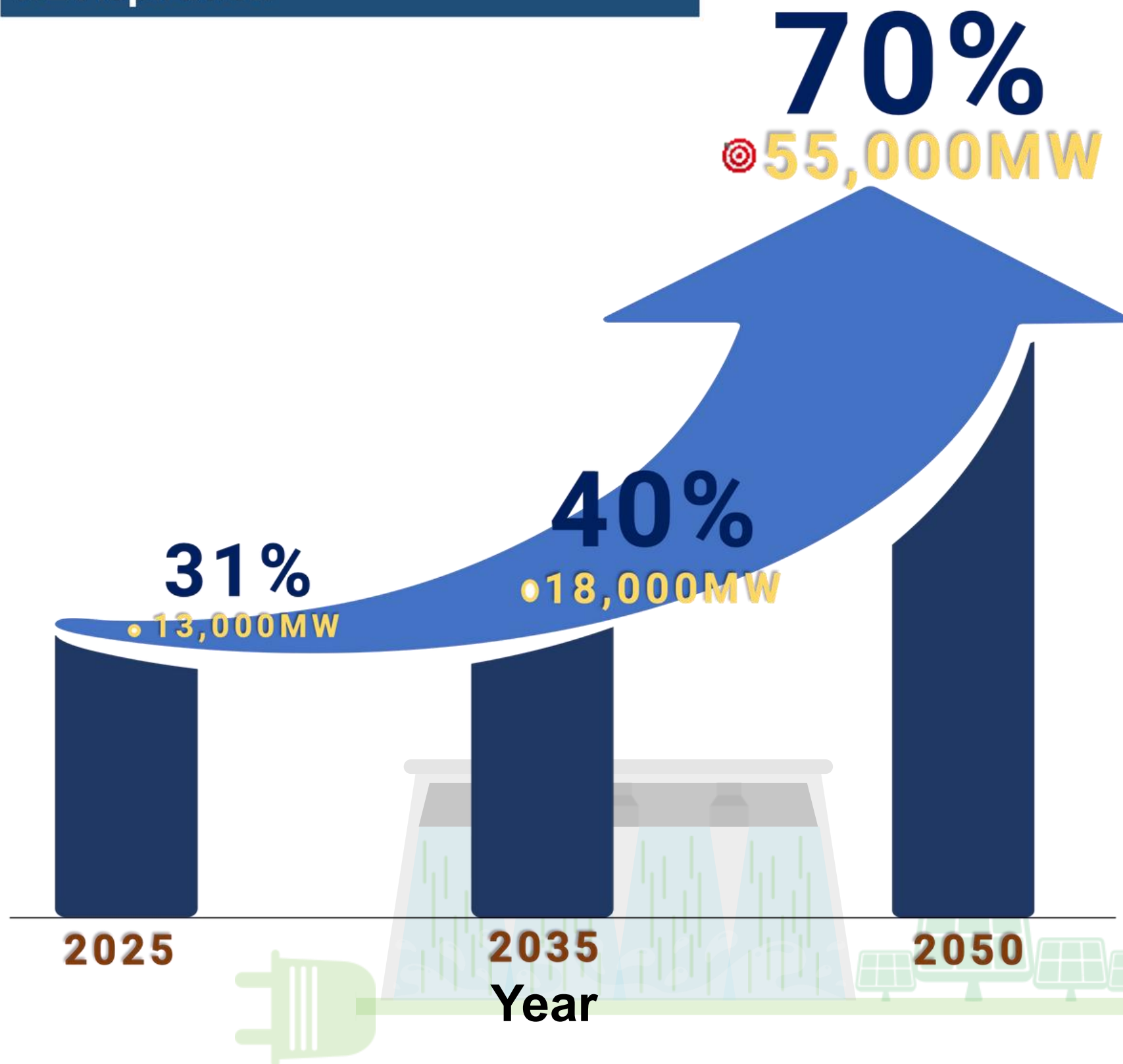
Implemented by: **Energy Commission & TNBX**



# RENEWABLE ENERGY TARGETS

## Renewable Energy as a New Economic Resource & Contributor to Net Zero Carbon

### RE Aspiration



**Capacity of RE by 2050:** the renewable energy capacity target is set to increase to **70%** by **2050**, serving as a catalyst for decarbonisation and economic growth.

**Solar Rooftop Installation Initiative:** Further encourage the installation of solar PV systems on building rooftops to maximise the country's renewable energy potential with minimal environmental and ecosystem impact.

**Green Energy Exchange:** Develop an Electricity Exchange for cross-border trading of Renewable Energy Certificates (RECs) with neighbouring countries to realise the ASEAN Power Grid Initiative.





**MINISTRY OF ENERGY TRANSITION AND WATER TRANSFORMATION**

**TERIMA KASIH  
THANK YOU**

