

# Towards a more Sustainable and Energy Efficient Future

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Sustainable Energy Development Authority (SEDA) Malaysia 2 July 2019

12<sup>th</sup> MP Kick-Off Conference

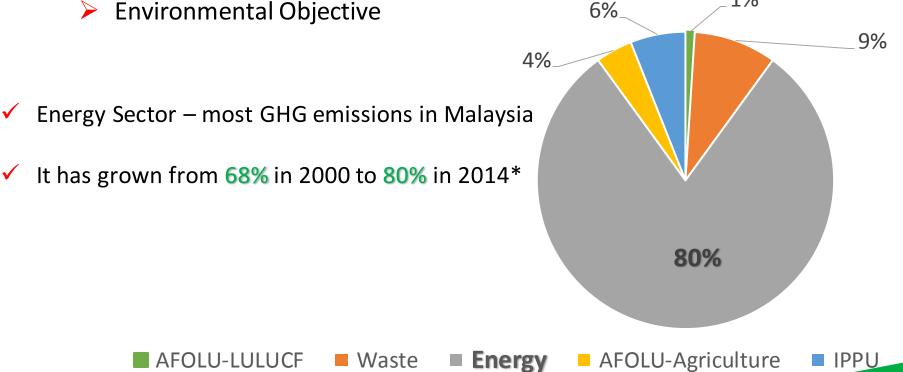
# **Energy Policy**

Malaysia's energy policy is guided by three principle objectives:

- Supply Objective
- Utilisation Objective
- **Environmental Objective**

Percentages of Greenhouse Gas Emissions by Sector

1%



#### **Our Commitment**

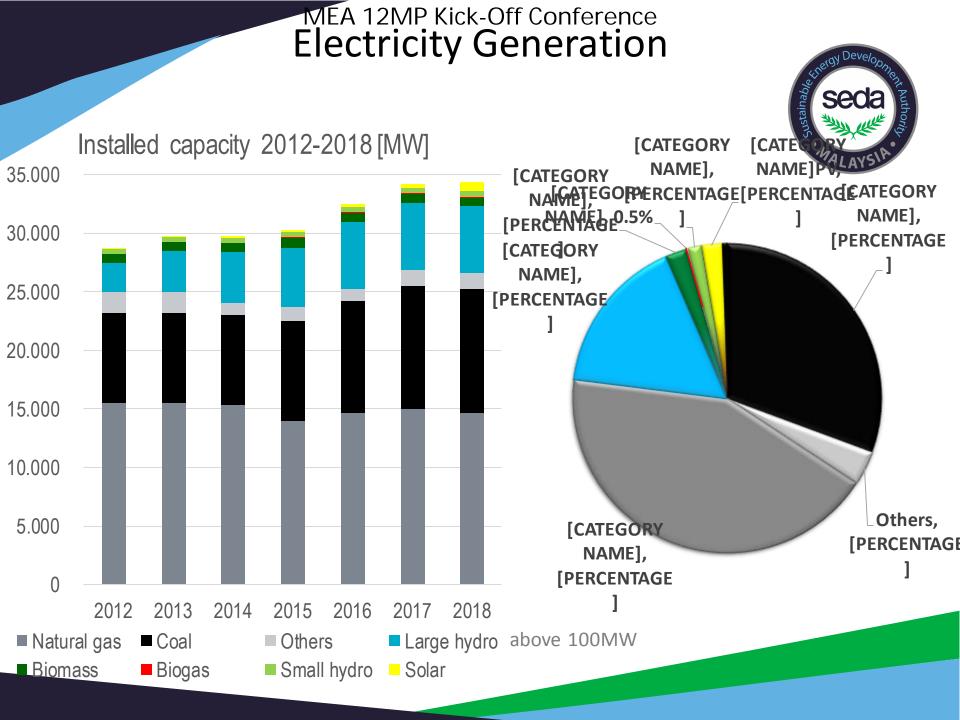
- To reduce its GHG emissions intensity by 45% by 2030
  - √ 35% on an unconditional basis
  - √ 10% condition

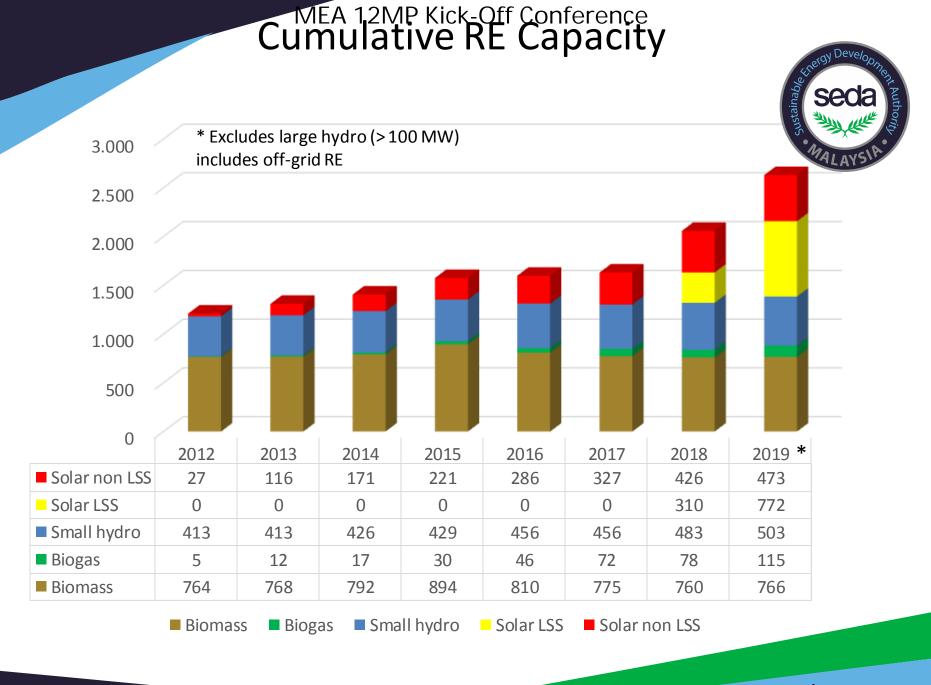


#### **Eleventh Malaysia Plan (2016-2020)**

- focused on reducing dependency on petroleum products
- mainstreaming environmental considerations,
- while ensuring reliable, affordable energy and safeguarding energy security
- The promotion of renewable energy remains a priority for Malaysia
  - ✓ 20% RE mix in the installed power mix by 2025\*

<sup>\*</sup>Malaysian definition of this excludes all hydro power plants larger than 100MW.





# RENEWABLE ENERGY TRANSITION ROADMAP (RETR) 2035



To determine the future of electricity system and the RE targets in the electricity mix (up to 2035);

To determine the strategies, comprehensive action plans and resources required to transit to this future of electricity system and achieve the RE targets;

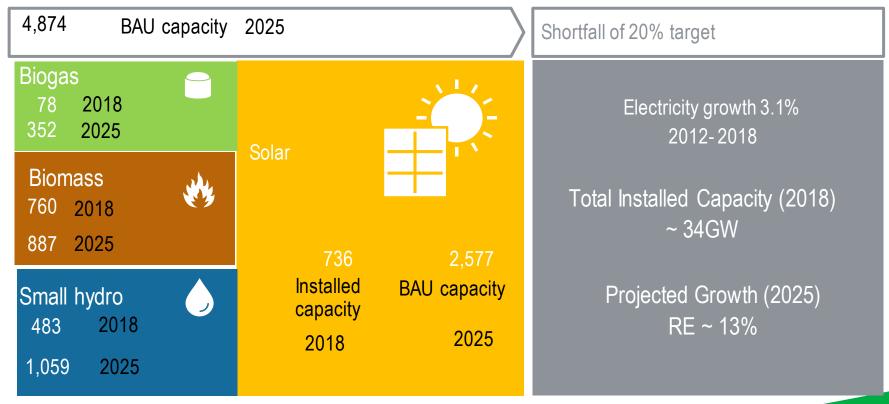
To determine the impact indicators with measurable economic, social, and environmental benefits of the strategies for RE on annual basis until 2035.

# MEA 12MP Kick-Off Conference Indications of RETR



#### In business-as-usual (BAU) scenario:

#### Current and planned capacity – BAU scenario [MW]



## MEA 12MP Kick-Off Conference RMK 11 Initiatives on Energy



#### Renewable Energy Initiatives

✓ 2,080 MW and 3,484 MW RE installation by 2020 and 2030

#### Energy Efficiency & Conservation

✓ 52,233 GWh of electricity savings over 2016 to 2025, 8% electricity demand growth reduction

#### Conventional Power Plants

- ✓ Advanced Technologies in Coal and Gas Power Plants
- ✓ Fuel mix on energy security and affordability.

\*

## MEA 12MP Kick-Off Conference RMK 12 Initiatives on Energy



#### Continue, Enhance and Explore RE initiatives via

- Feed-in-Tariff (inc. RE fund), Net Energy Metering, Large Scale Solar (ground mounted and floating), advanced technologies
- New market initiatives such as Peer-to-Peer and Renewable Energy Certificate
- RE Fiscal Initiatives such as Green Investment Tax Allowance (GITA) Etc.

#### Energy Efficiency & Conservation

- ✓ Incorporate the objectives of the EECA including target setting (Electricity & Thermal)
- ✓ Recognise new initiatives such as Low Carbon Building LCB) Program and Zero Energy Building

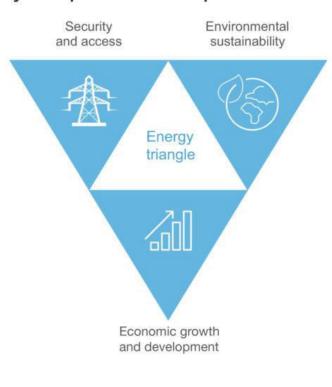
objectives - increase industry efficiency, elect. industry structure reforms and empower consumers.

## **Energy Transition Index 2019**



#### World Economic Forum's *Fostering Effective Energy Transition* report

#### System performance imperatives



#### Transition readiness enabling dimensions

Regulation



environment

#### Places Malaysia:

- ✓ **31** out of 115 countries
- ✓ the highest-ranking emerging and developing country from this region.

Note 1: The Energy Transition Index benchmarks countries on the performance of their energy system, as well as their readiness for transition to a secure, sustainable, affordable, and reliable energy future. ETI 2019 score on a scale from 0 to 100%.





#### For further enquiries, please contact:

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