



MINISTRY OF ENERGY &  
ENVIRONMENTAL SUSTAINABILITY SARAWAK

# SARAWAK: SPEARHEADING THE DEVELOPMENT OF AN ENERGY HUB FOR THE REGION

*Webinar – Malaysia: A New Energy Hub in ASEAN*

*9<sup>th</sup> October 2025*



# SARAWAK'S TRANSITION OF ECONOMIES



Source: Borneo Post



Source: Borneo Post



Source: Malaysian Palm Oil Board

1

Resource -Based  
Economy

1980s



# SARAWAK'S TRANSITION OF ECONOMIES



Batang Ai Hydroelectric Dam



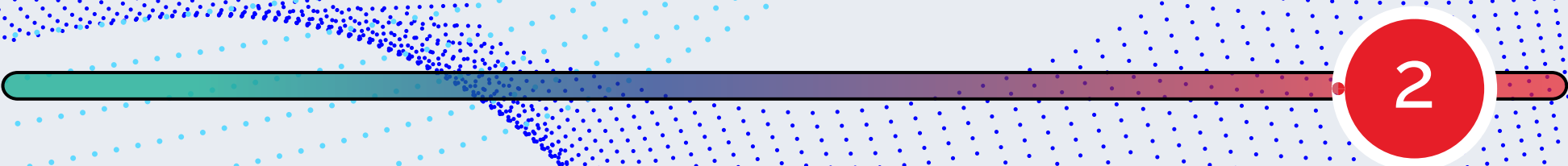
Bakun Hydroelectric Dam



Murum Hydroelectric Dam



Baleh Hydroelectric Dam (completion by 2030)



Renewable Energy

2000s



# SARAWAK'S TRANSITION OF ECONOMIES



Source: See Hua Daily News



Source: Borneo Post



Source: Jabatan Penerangan Malaysia

3

Digital Economy

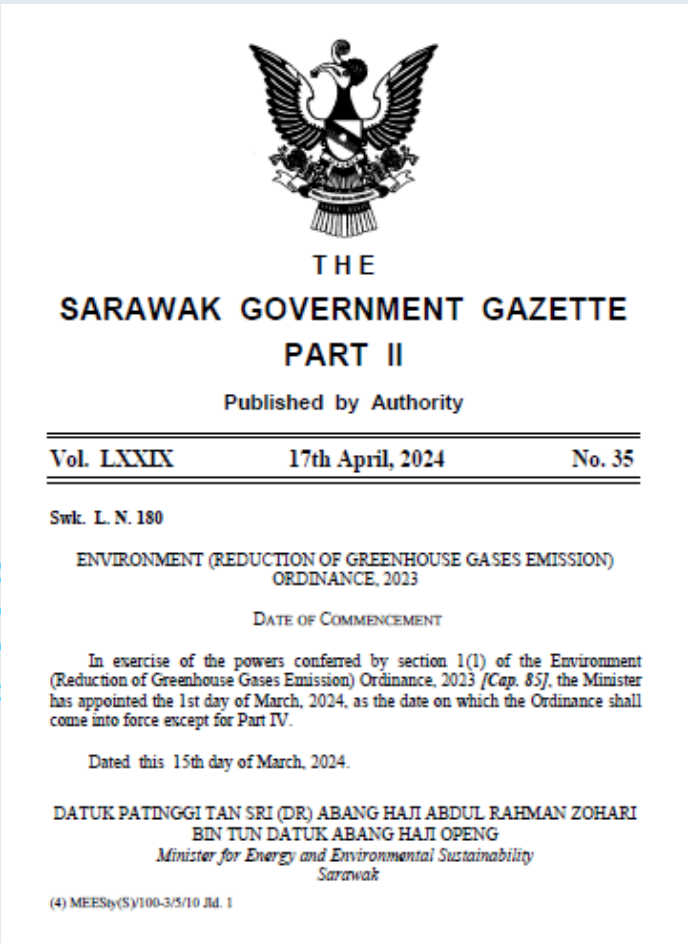
2018



# SARAWAK'S TRANSITION OF ECONOMIES



Source: Borneo Post



Source: MEESty

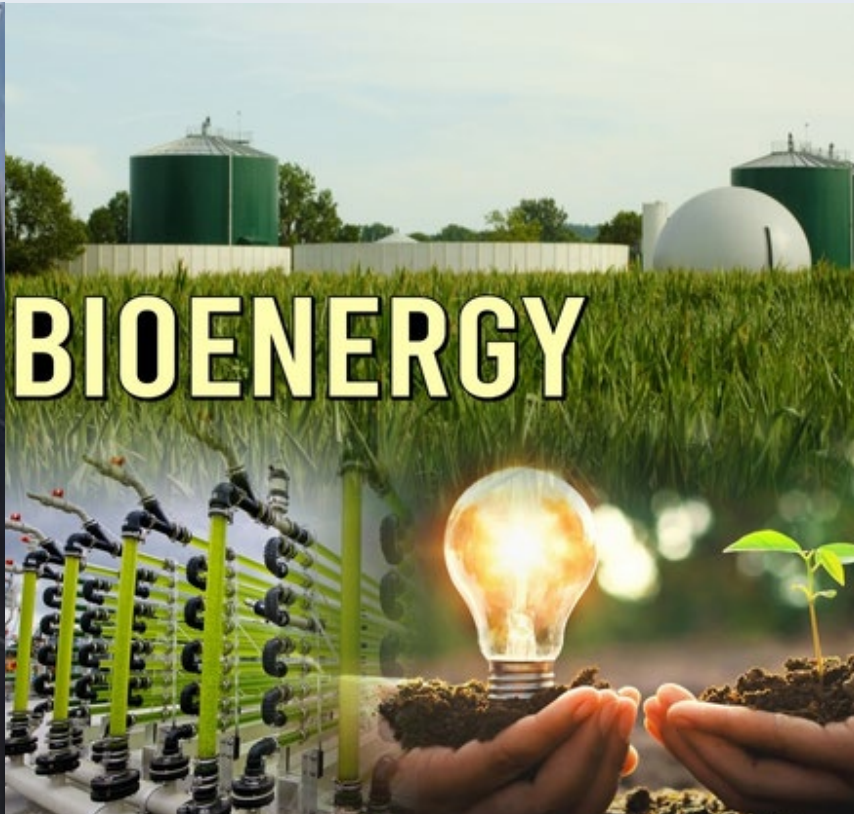
4

Green Economy &  
Sustainability

2021



# SARAWAK'S TRANSITION OF ECONOMIES



5

Net Zero & Future Economies

2024 >>

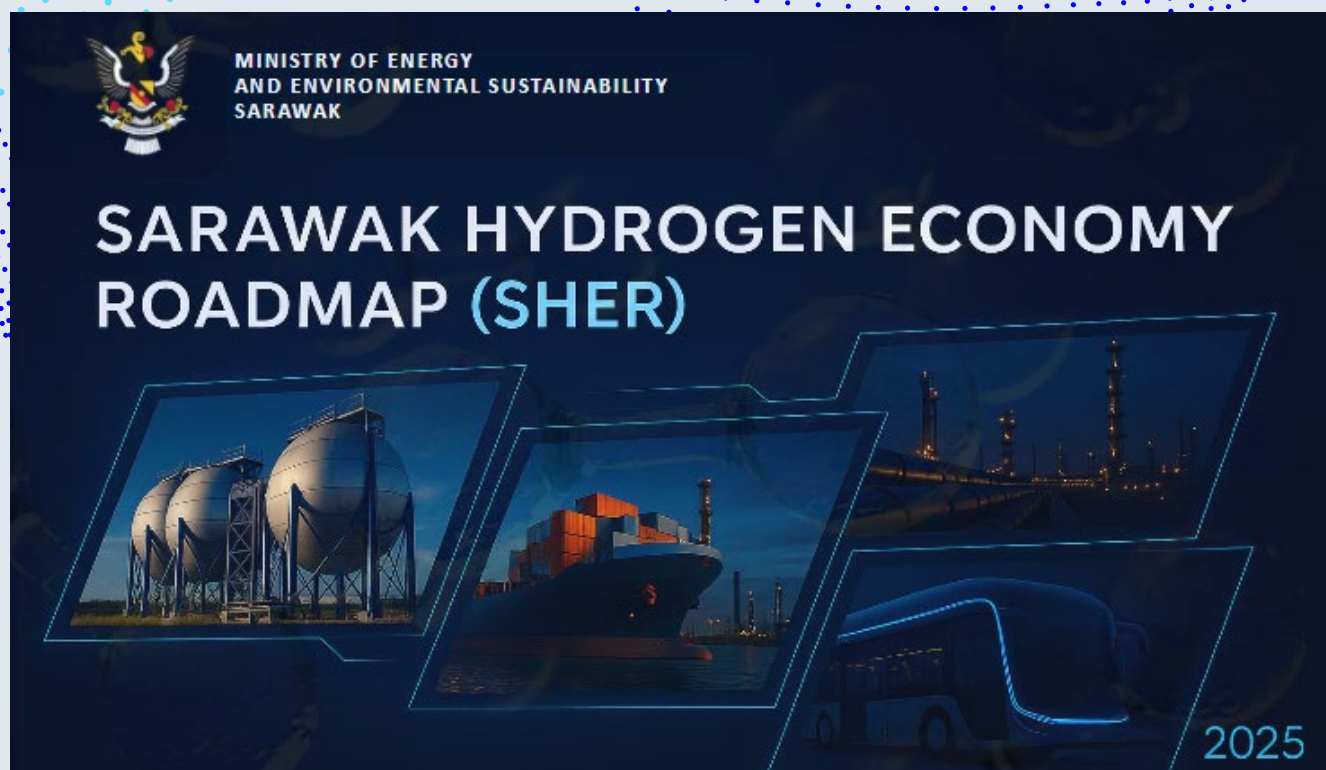




# A MILESTONE FOR SARAWAK'S SUSTAINABLE FUTURE



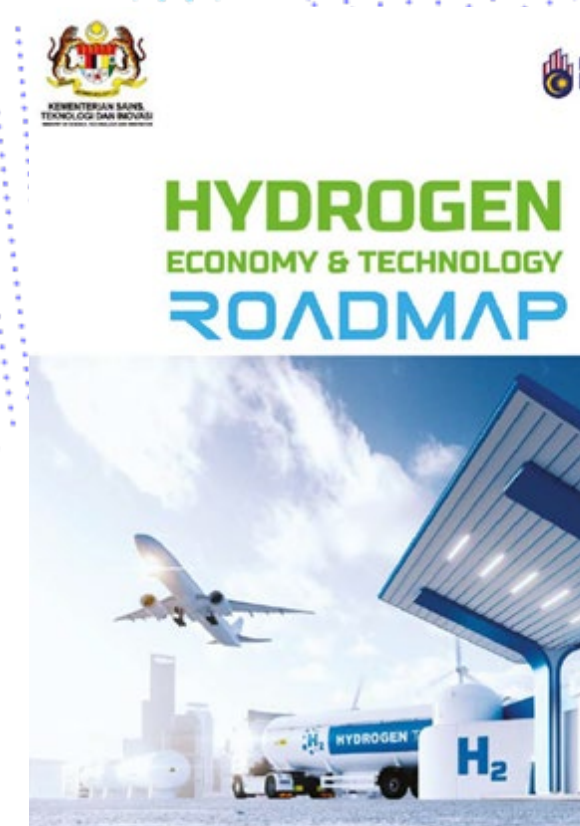
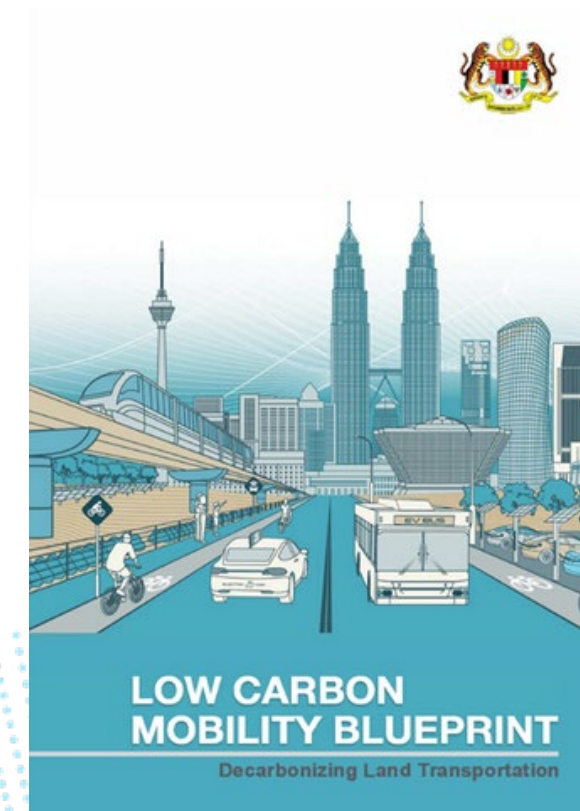
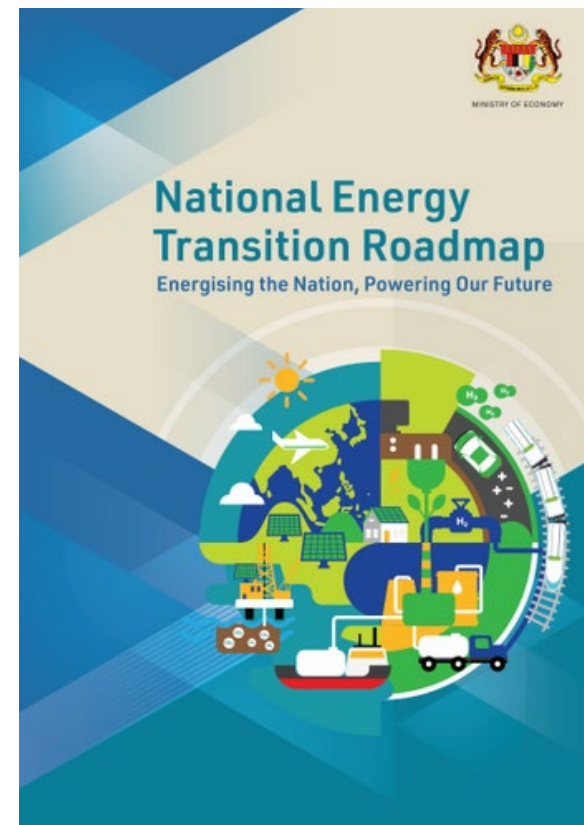
*Scan here to download  
the policies & roadmap*





# Sarawak's Policy Direction - Aligned Nationally, Tailored Locally

## *Examples of related Federal Government Policies*





# SARAWAK'S ECONOMIC GROWTH & VISION TOWARDS 2030



4th Largest Economy  
in Malaysia



9% of National GDP

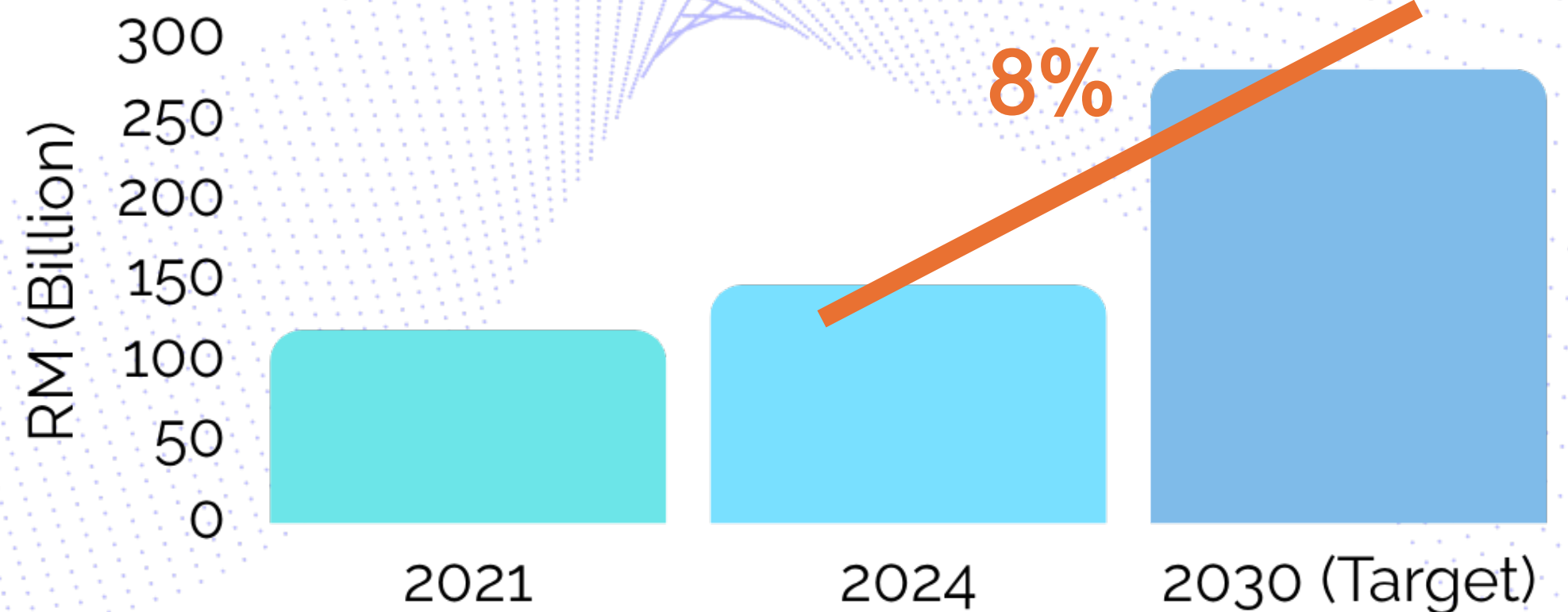


RM148 billion GDP in  
2024



3.9% Avg. Growth  
(2021–2024)

Sarawak GDP Growth





## SARAWAK ENERGY TRANSITION POLICY (SET-P)



MINISTRY OF ENERGY AND ENVIRONMENTAL SUSTAINABILITY SARAWAK

# SARAWAK ENERGY TRANSITION POLICY

A transformative policy that will guide our shift towards a low-carbon, secure, and inclusive energy future while ensuring energy security, promoting environmental sustainability, and maintaining economic affordability



# CREATING JOBS AND DRIVING A JUST, INCLUSIVE ENERGY TRANSITION BY 2050



**RM 500-600 Bn**  
cumulative GDP impact  
by 2050

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Significant uplift in GDP  
expected driven by  
initiatives under SET-P



**80k**  
new additional jobs  
created by 2050 vs. 2023  
baseline levels

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Energy transition will create  
substantial number of direct,  
high-value jobs by 2050



**RM 580-700 Bn**  
cumulative investment  
opportunities by 2050

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Investment opportunities  
generated from Sarawak's  
energy transition



# SARAWAK ENERGY TRANSITION POLICY

## Vision

**Secure, Equitable,  
and Low-carbon Energy Future for Sarawak**

## 4 Objectives



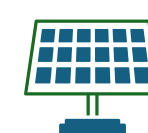
### Energy Security

Maintain adequacy and reliability of energy supply



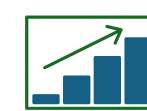
### Equitable & Just Transition

Achieve affordable and accessible energy for all at the right pace



### Sustainable

Energy from renewable/sustainable sources



### Economic Growth

Ensure continuous economic growth as Sarawak transitions to a low-carbon energy future

## 4 Focus Areas



### Power



### Transportation



### Industry



### Buildings (Residential & Commercial)

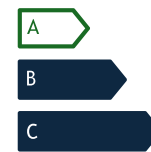
## 7 Pillars



### Renewable Energy



### Natural Gas



### Energy Efficiency



### Low-carbon Mobility



### Clean Hydrogen



### CCUS



### Alternative Energy

## 5 Key enablers



### Governance & Regulations

to ensure effective roll out, monitoring and implementation of SET-P



### Financing & Investment

to mobilize public and private resources to fund Sarawak's transition



### Infrastructure

to support the development and scale up of energy transition projects



### Technology & Innovation

to ensure continuous tech development and evolution for energy transition



### Workforce & Skilling

to develop the necessary workforce and expertise required for the energy transition



# SARAWAK HYDROGEN ECONOMY ROADMAP

Sets out a clear pathway to harness our natural advantages – abundant hydropower, solar, natural gas, and CCUS potential – to develop a clean hydrogen value chain

“



Sarawak Premier Tan Sri Abang Johari Openg launching the Sarawak hydrogen economy roadmap in Kuching on Tuesday (May 13). - ZULAZHAR SHEBLEE/The Star

KUCHING: Sarawak has launched a hydrogen economy roadmap to drive the state's hydrogen agenda through 2035 and beyond.

”



# SARAWAK HYDROGEN ECONOMY ROADMAP

## SARAWAK AS A REGIONAL CLEAN HYDROGEN LEADER

### VISION

### STRATEGIC INITIATIVES



Achieve competitive H<sub>2</sub> production costs via large-scale hub development



Stimulate and accelerate domestic uptake of clean H<sub>2</sub>



Secure long-term clean H<sub>2</sub> demand via international offtakes



Establish the Sarawak Certification Platform for Hydrogen



Advance development & commerciality of critical technologies

### KEY ENABLERS



Governance & Regulations



Financing & Investment



Infrastructure



Technology & Innovation



Workforce & Skilling



# SARAWAK AS AN ENERGY HUB

**Sarawak is uniquely positioned to drive Energy Transition with significant opportunities:**



**No.1 in Low-carbon energy potential in Malaysia**



**No. 1 in Natural Gas production and reserves in Malaysia (>60% reserves)**



**No. 1 in technical CCS potential in Malaysia (>65% of Malaysia's total CCS potential<sup>1</sup>)**



**Abundant land and water resources for industrial development and utilities**



**Strategic location, well positioned at the center of South China Sea covering 1/3 of global maritime traffic**



# SARAWAK'S FUTURE ENERGY HUB ROLE: BACKED BY THE MALAYSIAN PRIME MINISTER

“

‘Wherever I go, Sarawak is seen having potential as energy hub in Asean’ – PM Anwar

Apr 19, 2025 @ 16:20



Prime Minister Datuk Seri Anwar Ibrahim sits atop a Vespa scooter during the Aidilfitri Madani 2025 celebration in Kuching, as Sarawak Premier Tan Sri Abang Johari Tun Openg and Deputy Prime Minister Datuk Seri Fadillah Yusof look on in the background on April 19, 2025. Photo credit: Sarawak Public Communication Unit (UKAS)

”

“

PM: Sarawak poised to become key regional energy transition hub

Jan 9, 2025 @ 14:07



Abang Johari (centre) in a discussion with Anwar Ibrahim (right) at MEF 2025, while Alexander Nanta (left) looks on. Photo credit: Sarawak Public Communication Unit (UKAS)

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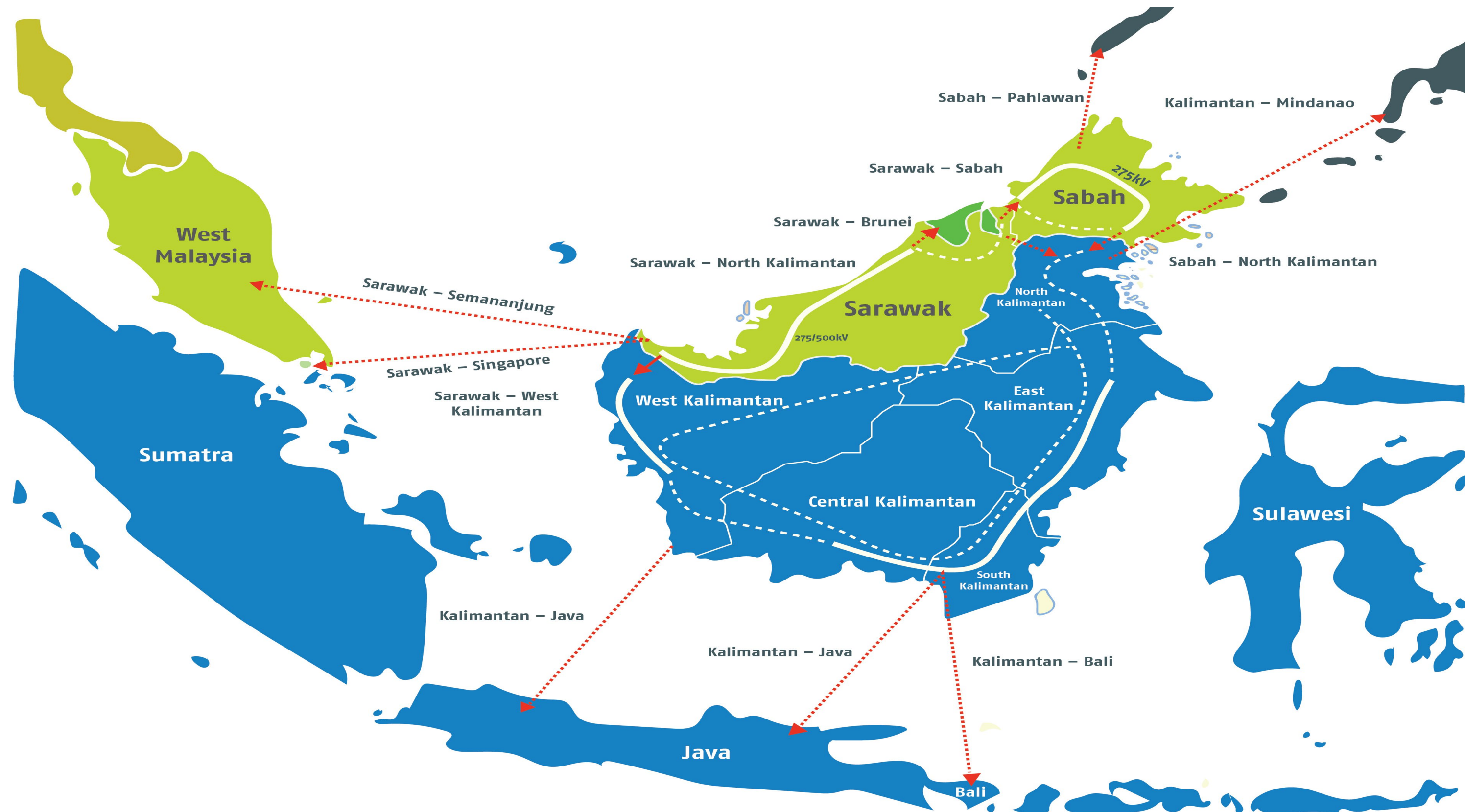
# RENEWABLE ENERGY HUB





# RENEWABLE ENERGY HUB

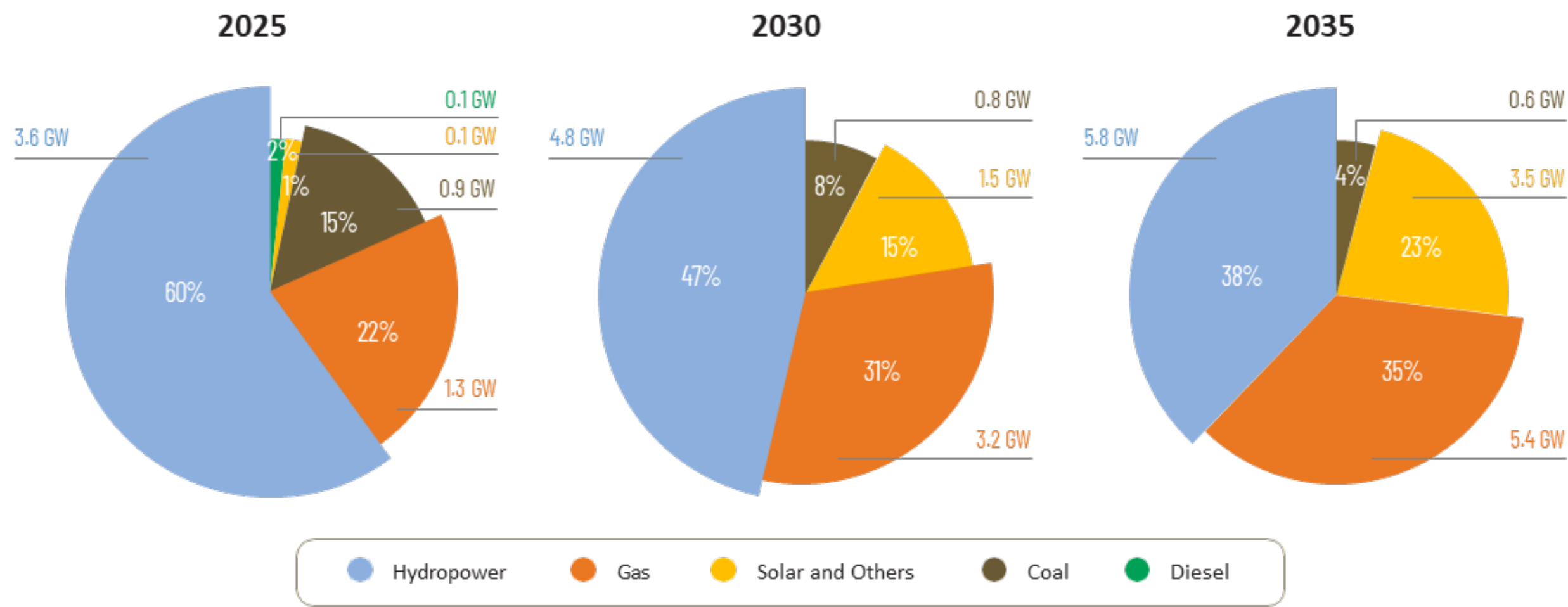
## ASEAN Power Grid and Sarawak Interconnection Projects





# RENEWABLE ENERGY HUB

Installed Power Capacity Mix<sup>1,2</sup> (GW)



Total installed capacity (GW)

6

10

15

RE share of installed capacity<sup>1</sup> (%)

61

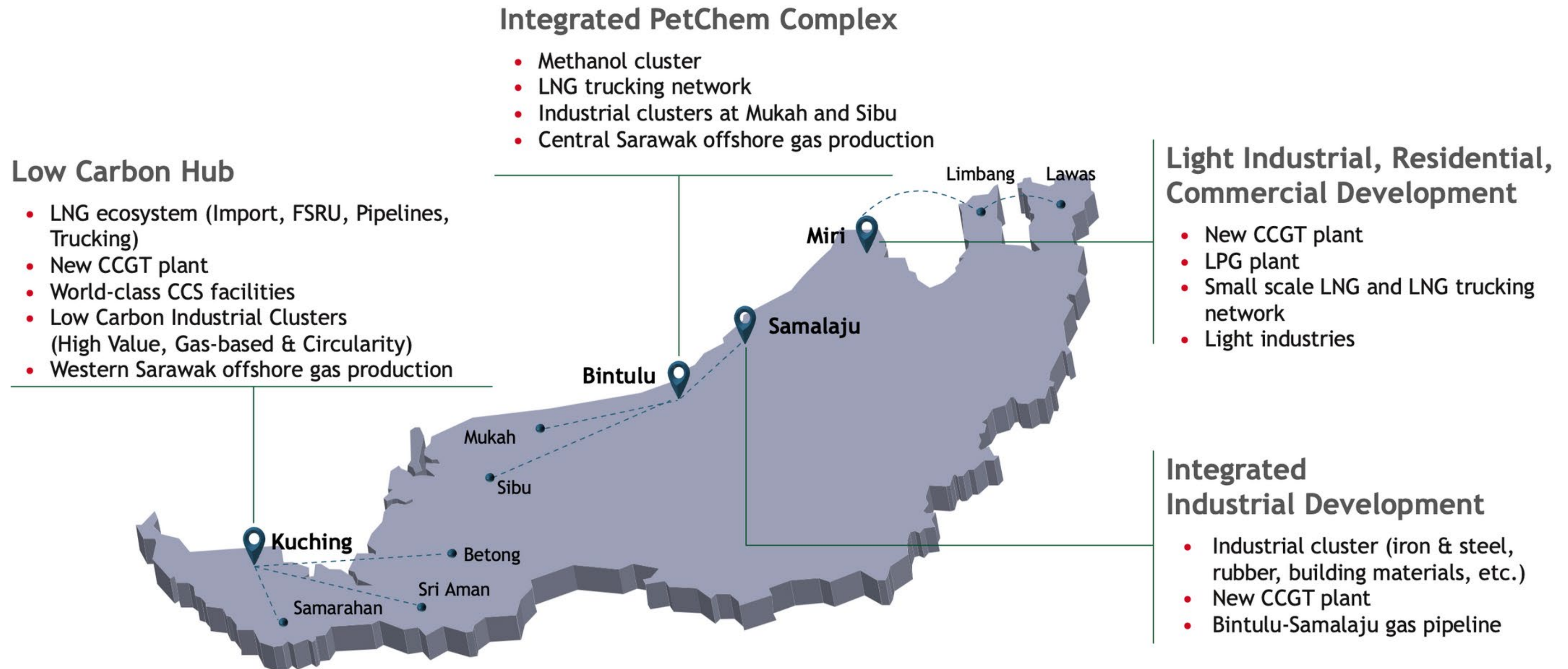
61

61



# NATURAL GAS HUB

The Sarawak Gas Roadmap (SGR) serves as a strategic guide to optimize natural gas resources with the development of 4 strategic gas hubs





# CARBON CAPTURE, UTILIZATION & STORAGE HUB

Efforts under way to realise Sarawak's first CCUS Hub in Samalaju, Ready for CO<sub>2</sub> Injection and Storage as early as year 2028/29





# HYDROGEN HUB

Sarawak H2 Hub

H2ornbill

H2biscus



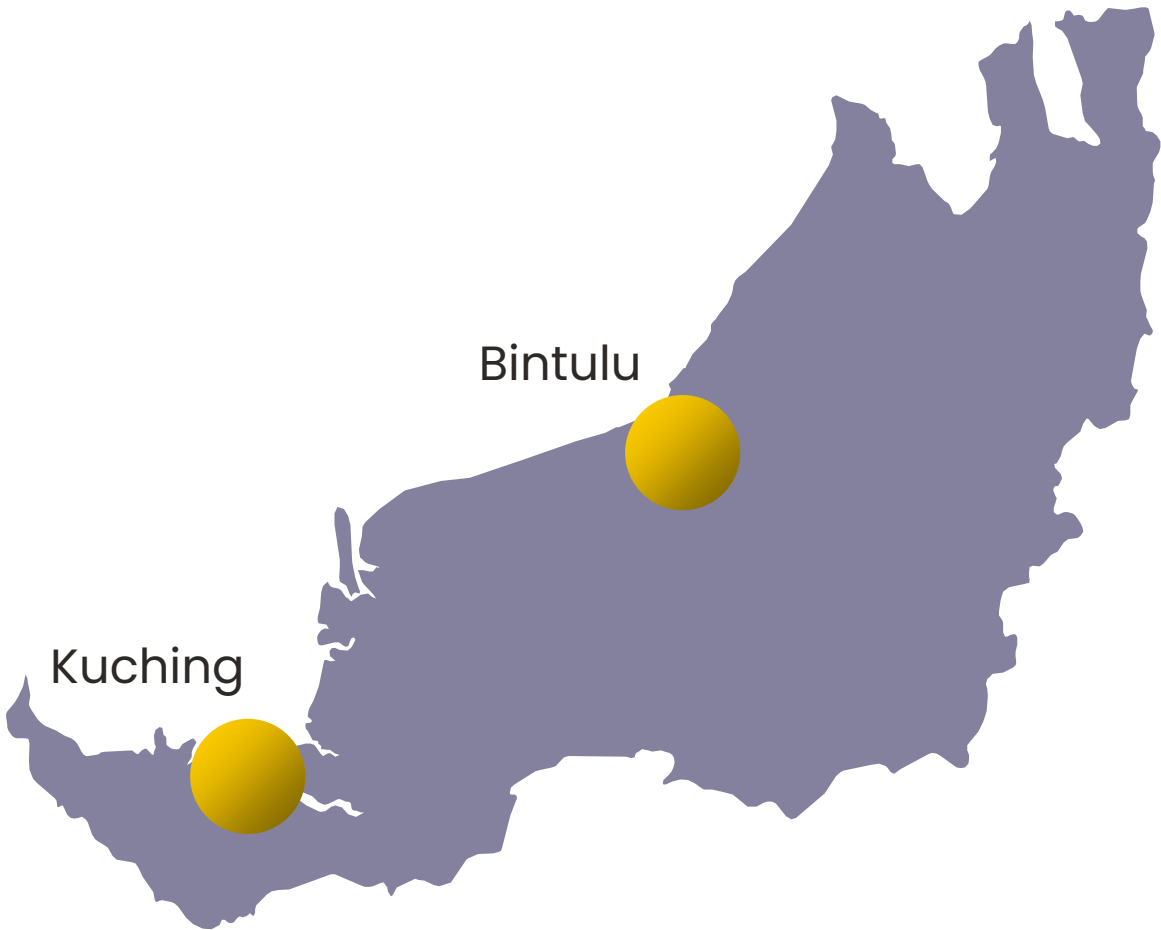
Sources: SEDC Energy



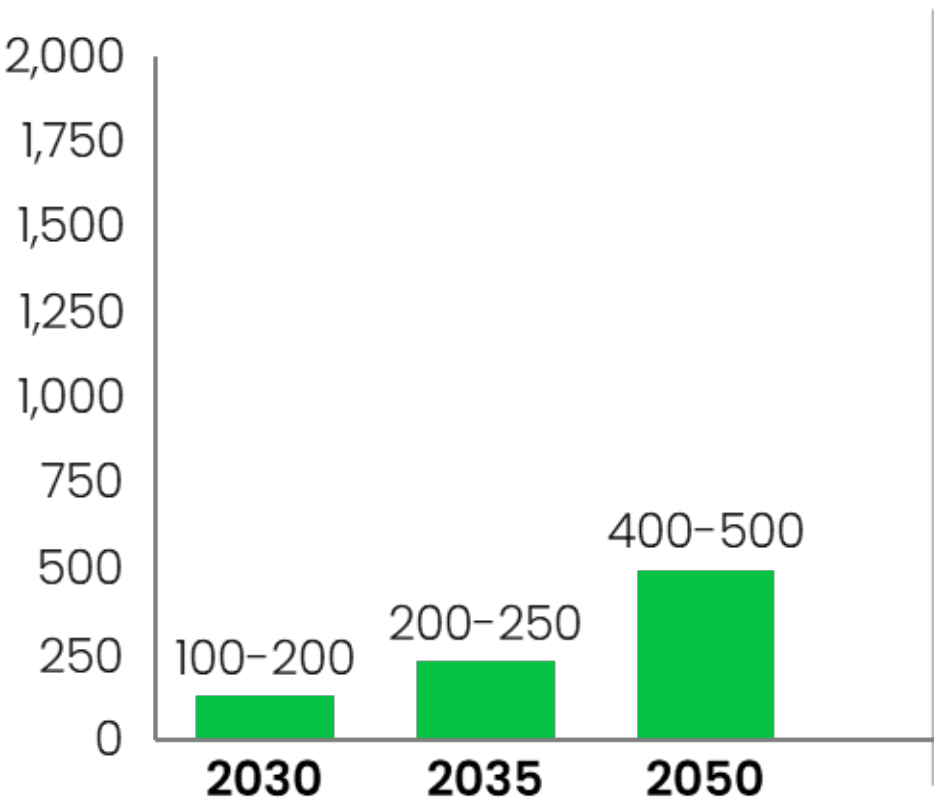
# HYDROGEN HUB

Sarawak is taking a structured and phased approach to unlock the potential of clean hydrogen

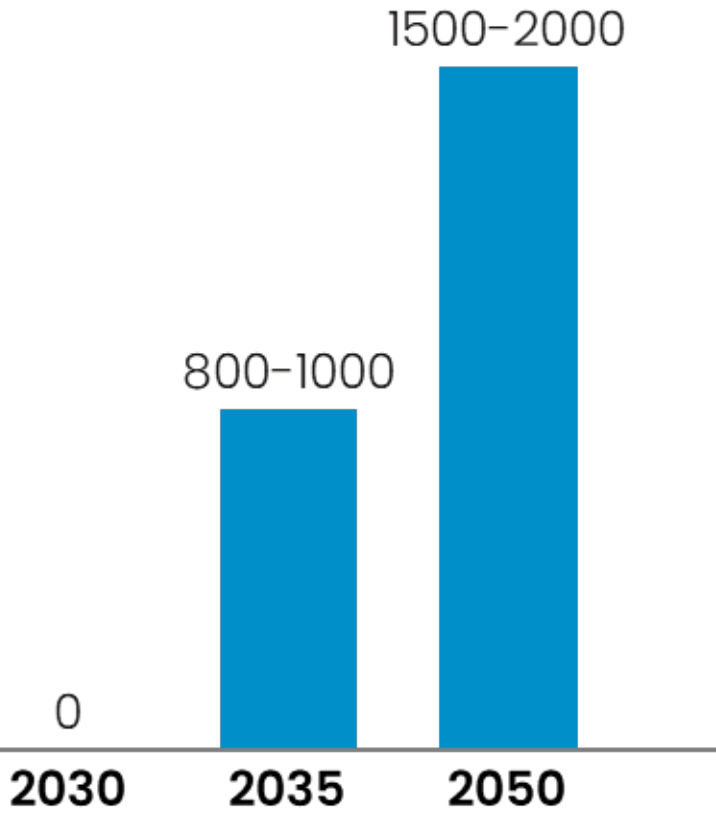
POTENTIAL HYDROGEN HUBS



GREEN HYDROGEN  
POTENTIAL  
(ktpa)



BLUE HYDROGEN  
POTENTIAL  
(ktpa)





# Thank you



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