# Towards Net Zero for Sarawak

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Corporate Development & Economy Division

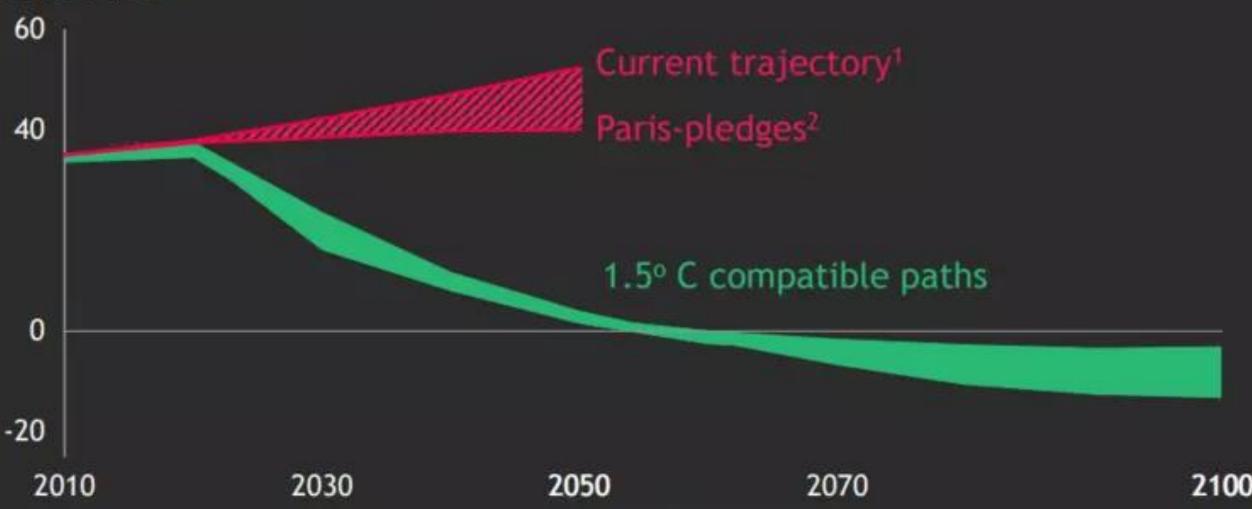
Ministry of Energy and Environmental Sustainability Sarawak (MEESty)



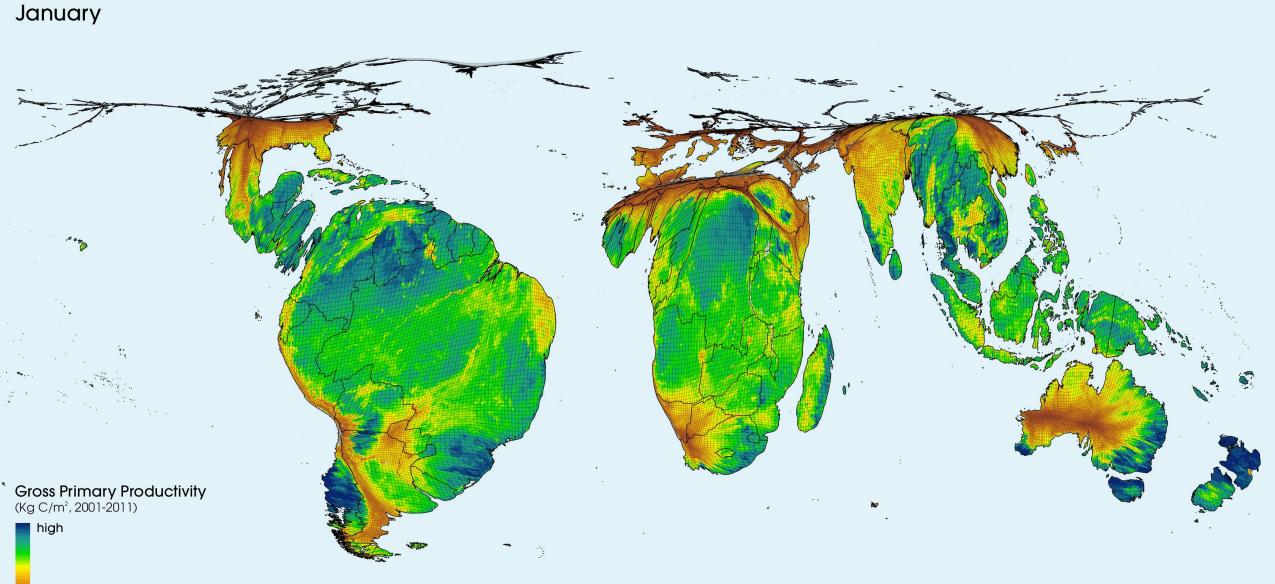
The Net Zero Challenge Report – World Economic Forum and BCG

# The world needs to move to "Net Zero"

### Global net CO<sub>2</sub> emissions pathways Gt per year



### The metabolism of the terrestrial biosphere





### The industrial metabolism of humanity

YEAR

ANNUAL CO 2 EMISSIONS

70

Ú

X106

METRIC

CARBON



TOTAL

ANNUAL

2.

SSIGN

×10"

TONNES

Adverse impacts from human-caused change will intensify

Water scarcity and food production







Health and wellbeing









Cities, settlements and infrastructure









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Ecosystem structure, species range shifts and changes in timing





# Business Action for 1.5<sup>0</sup> Celsius

 First corporation in Malaysia to commit to the "Business Action for 1.5° Celsius" under United Nations Global Compact.

### BUSINESS 1.5°C

#### miness Ambition for 1.5°C Commitment Letter

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Kuching 25 June 2020

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States Business Business Business



energy

sarawak

Industry Processes and Product Use Waste Agriculture Land use change and Forestry

### Low Carbon Cities for Green Growth

#### Low Carbon Cities

- Develop Sarawak's urban areas with infill development and create more green lungs within urban areas
- Adopt nature-based solutions when building or redeveloping infrastructure
- Introduce low carbon public transportation and encourage more cycling and walking
- Implement sustainable construction practices in future buildings

Urban environment	Urban infrastructure	Urban mobility	Buildings
C1: Accelerate sustainable urban development in Sarawak's urban erwironment	C2: Implement technology and best practices to decarbonise the urban infrastructure and reduce emissions in Sarawak	C3: Promote low carbon mobility infrastructure in Sarawak's cities	C4: Implement sustainable construction practices that are environmentally responsible and resource efficient

### Developing Carbon Ecosystem







#### QUANTIFY

A platform that quantifies the CO2 you didn't produce

#### VALUE

Values your CO2 savings

#### EXCHANGE

And enables you to exchange your savings



Creating Carbon Neutral Cities

- Sustainability platform rewards carbon neutral mobility behavior towards a new way of living in cities
- Rewarding people and communities for not emitting CO2
- Exchange credits for other services and companies can offset them to compensate their local carbon footprint
- Accelerating global transition towards carbon neutral cities



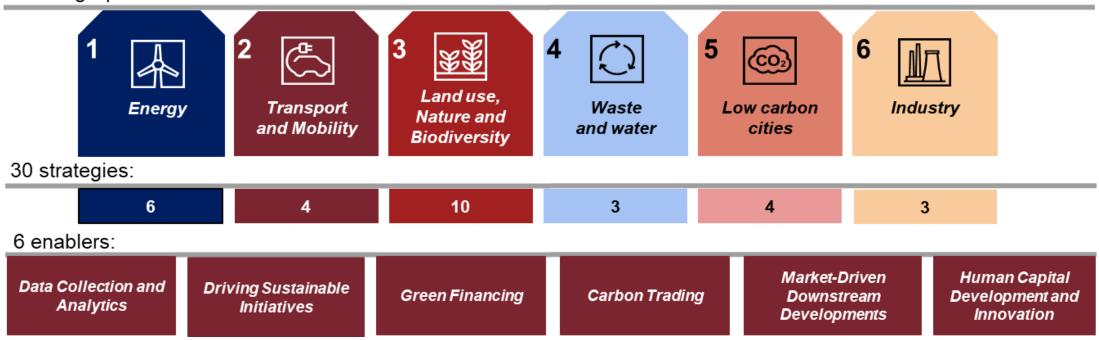
AYR, a platform that rewards carbon neutral mobility behavior



## Sarawak's Green Economy Policy sets out the vision to achieve 3 policy objectives, supported by 6 strategic pillars and 6 enablers

	Vision	Sarawak to be a low carbon and inclusive green economy by 2030			
Objectives					
resources		To improve the <b>liveability of Sarawakians</b> including preserving indigenous values and cultures of the locals	To foster <b>inclusive economic growth</b> through responsible and sustainable use of natural resources		

#### 6 strategic pillars:



### DEVELOPING THE NET ZERO STRATEGY FOR SARAWAK



Maintain at least 60% renewable energy capacity mix by 2030.



600k tons annual reduction to CO2 emissions via electrification of mobility fleet.



Conserve natural resources and intensify sustainable forest management practices



Accelerate green growth transition



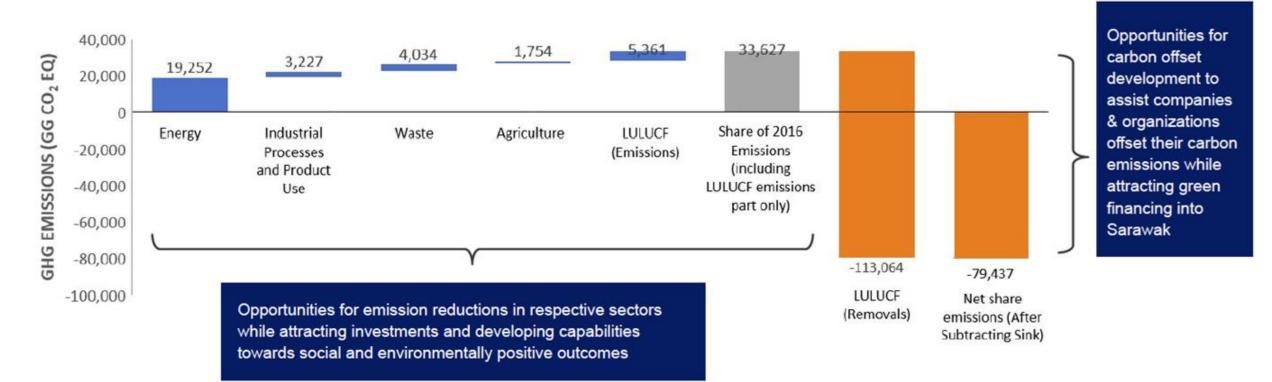
Global player in hydrogen



Accelerate low carbon urban development

### Sarawak's GHG emission

#### Sarawak's GHG emissions, 2016 (estimated share based on National GHG Inventory, baseline year 2016)



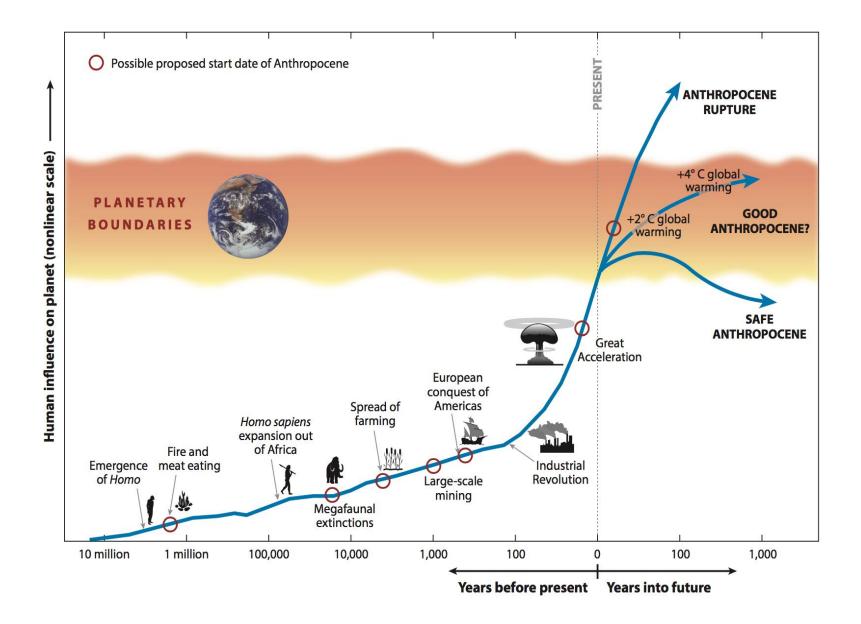
# The challenge

- Cut emissions quickly, sharply to create a safer, sustainable world
- Scale up practices and infrastructure to enhance resilience
- Cut global GHG emissions by nearly half by 2030
- Action required along numerous dimensions



# Total human social metabolism

 Malhi (2017) The Concept of the Anthropocene. Annual Reviews in Environment and Resources



### Terima Kasih