



# Green Hydrogen : The Sarawak Strategy for a Sustainable Future

---

**The Right Honourable Datuk Patinggi Tan Sri (Dr) Abang Haji Abdul Rahman Zohari Bin Tun Datuk Abang Haji Openg**

Premier of Sarawak



ASIA PACIFIC  
**GREEN  
HYDROGEN**  
**2024**  
CONFERENCE & EXHIBITION

**10 - 12** JUNE  
2024

BORNEO CONVENTION  
CENTRE KUCHING, SARAWAK

[www.hydrogenapac.com](http://www.hydrogenapac.com)

An Event Hosted and Supported by



Ministry of Energy and Environmental  
Sustainability Sarawak



TRIBE  
LEGACY  
SARAWAK  
CAMPAIGN



Organised by



# Transition of Economies



Source: Borneo Post



Source: Borneo Post



Source: Malaysian Palm Oil Board

1

Resource-  
Based Economy

1980s

# Transition of Economies



Batang Ai Hydroelectric Dam



Bakun Hydroelectric Dam



Murum Hydroelectric Dam



Baleh Hydroelectric Dam (completion by 2030)



# Transition of Economies



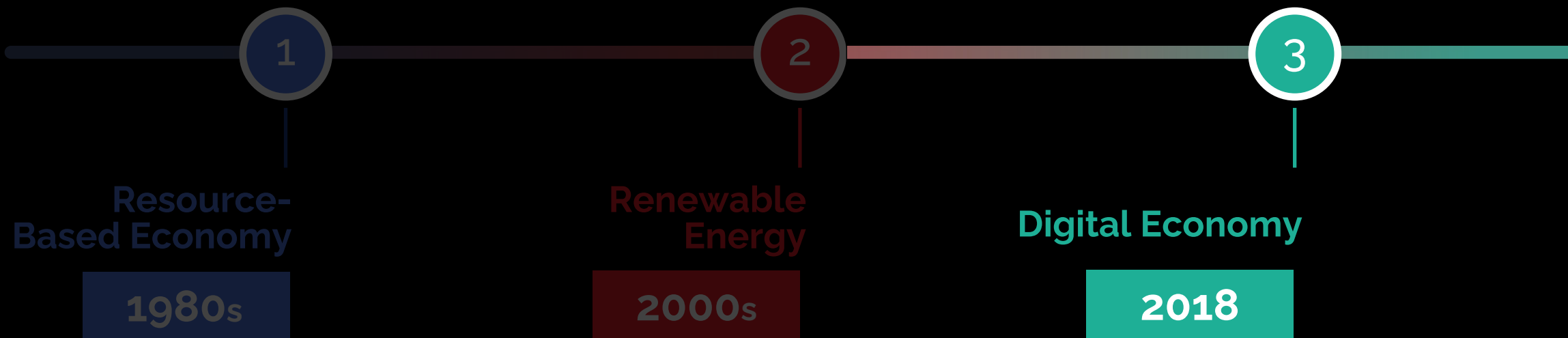
Source: See Hua Daily News



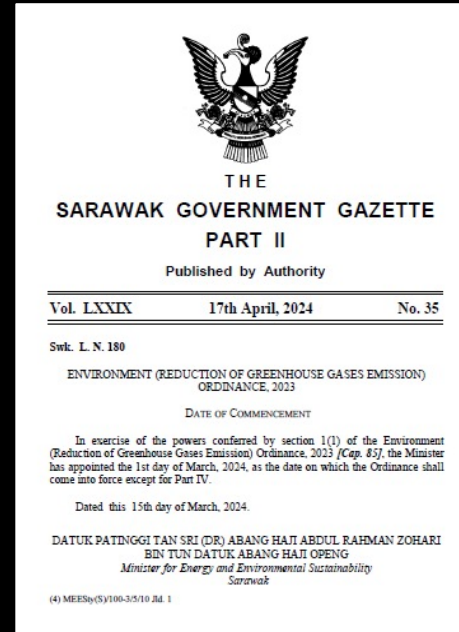
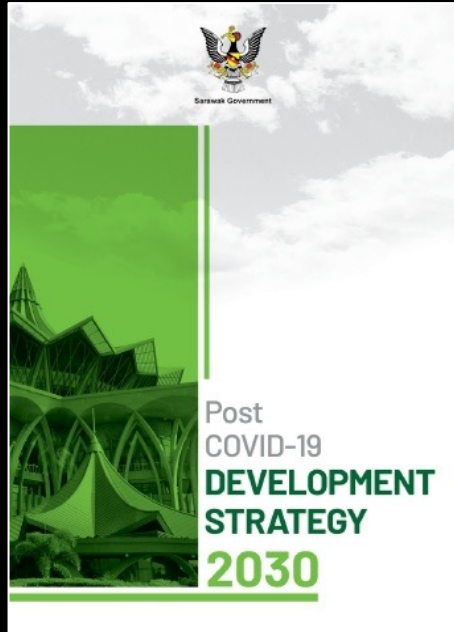
Source: Borneo Post



Source: Jabatan Penerangan Malaysia



# Transition of Economies

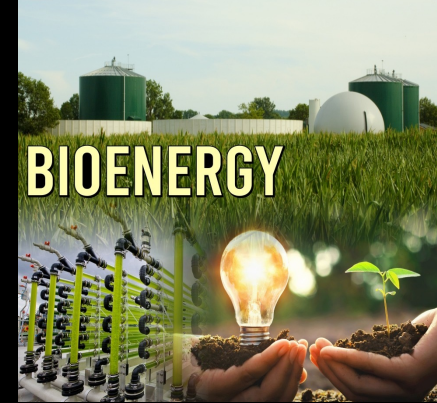


4

Green Economy  
& Sustainability

2021

# Transition of Economies



4

Green Economy  
& Sustainability

2021

5

Net Zero & Future  
Economies

2024 >>



# Our Humble H<sub>2</sub> Journey

An aerial photograph of a winding river flowing through a lush, green forested valley. The sun is low on the horizon, creating a warm, golden glow over the landscape. The river meanders through the forest, forming several large loops. In the distance, rolling hills and mountains are visible under a sky with scattered clouds. The overall scene is serene and natural.





Source: Sarawak Energy Berhad



## South-East Asia's First Integrated Hydrogen Refueling Station (2019)

Source: Sarawak Energy Berhad

Source: Sarawak Energy Berhad



Source: SEDC Energy



Source: The Borneo Post

## HYDROGEN-POWERED TOYOTA MIRAI (2023)



Source: Wap Car



Source: Dayak Daily

# SARAWAK HYDROGEN-POWERED AUTONOMOUS RAPID TRANSIT (ART)



Source: Sarawak Metro



Source: Sarawak Metro

Source: The Sun

# SARAWAK HYDROGEN BUS



Source: Sarawak Metro



Source: Dayak Daily



Source: Borneo Post

# SARAWAK HYDROGEN HUBS



Source: SEDC Energy

**Sarawak H2 Hub**  
Tanjung Kidurung, Bintulu



Source: Sarawak Metro

**Rembus H2 Plant**  
Kota Samarahan

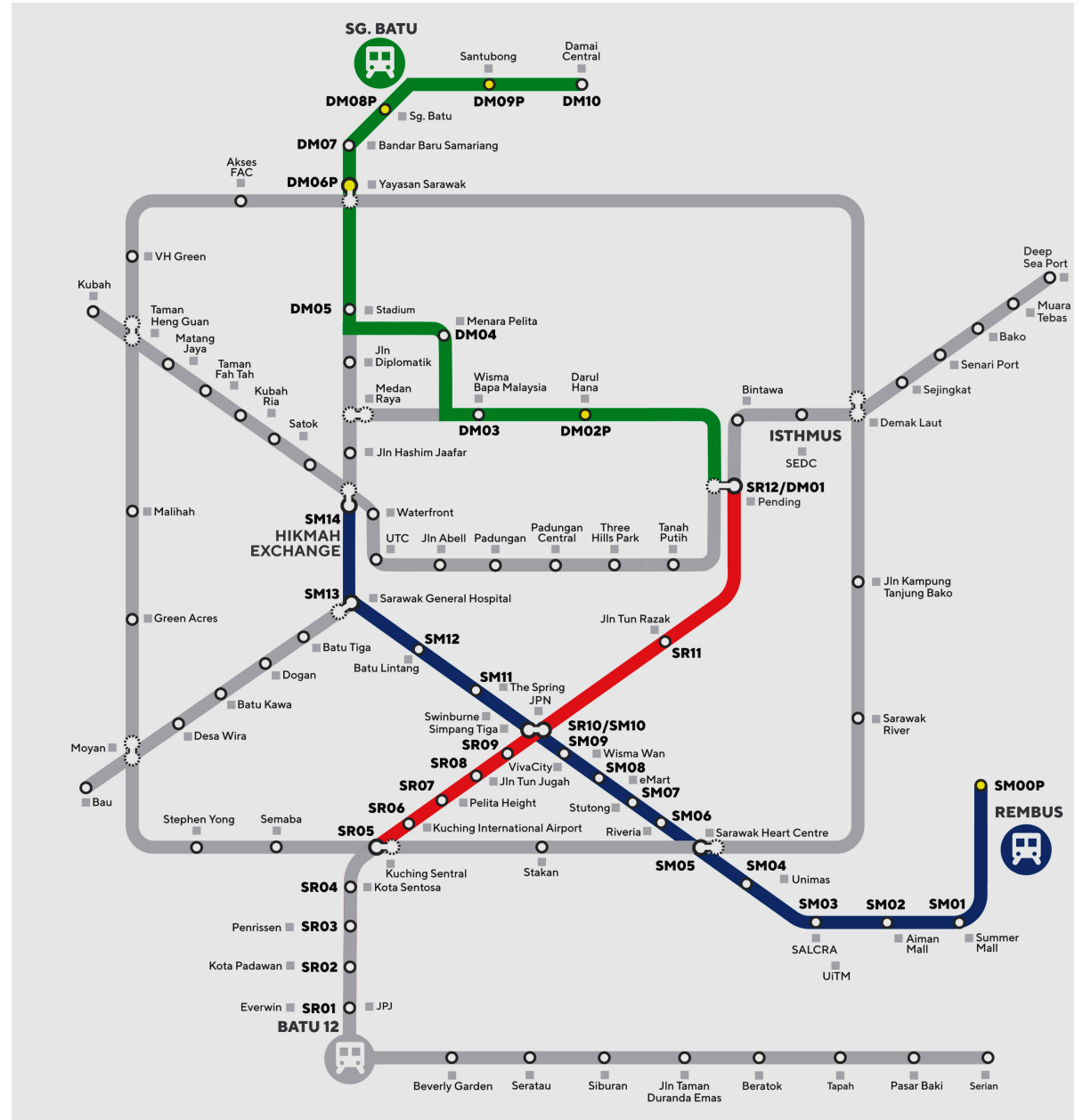
# Kuching Urban Transport System



Source: The Borneo Post



Source: Sarawak Metro



Source: Sarawak Metro

# PETROS MULTIFUEL STATION (2022)





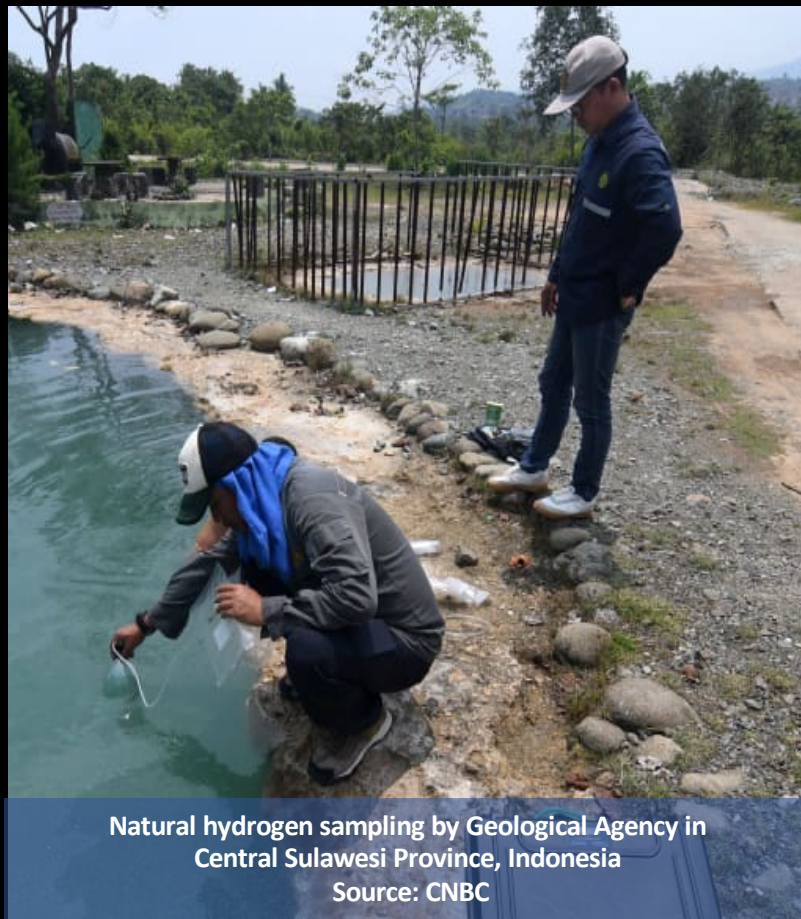
Both projects are targeted to produce:

- 240,000 tonnes of clean hydrogen/annum for export to Japan and South Korea as early as 2028.
- 9,000 tonnes of clean hydrogen/annum for domestic distribution and utilization.





Students measure the concentrations of hydrogen in the exposed soil.  
Source: University of Pretoria



Natural hydrogen sampling by Geological Agency in Central Sulawesi Province, Indonesia  
Source: CNBC



A well for natural hydrogen production in Geneva, Nebraska  
Source: New Scientist

# Natural Hydrogen



Centre of  
Excellence for Clean  
Energy

# PRELIMINARY SARAWAK ENERGY TRANSITION POLICY OVERVIEW

## Secure, Equitable, and Clean Energy Future for Sarawak

### 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 clean energy future

### FOCUS AREA



Power



Transportation



Industry



Buildings

(Residential & Commercial)

### PILLARS



Renewable Energy



Hydrogen



Energy Efficiency



Green Mobility



Bioenergy



Synthetic Fuels



CCUS



O&G

### ENABLERS



Policy & Regulatory Support



Financing & Investment



Technology & Infrastructure

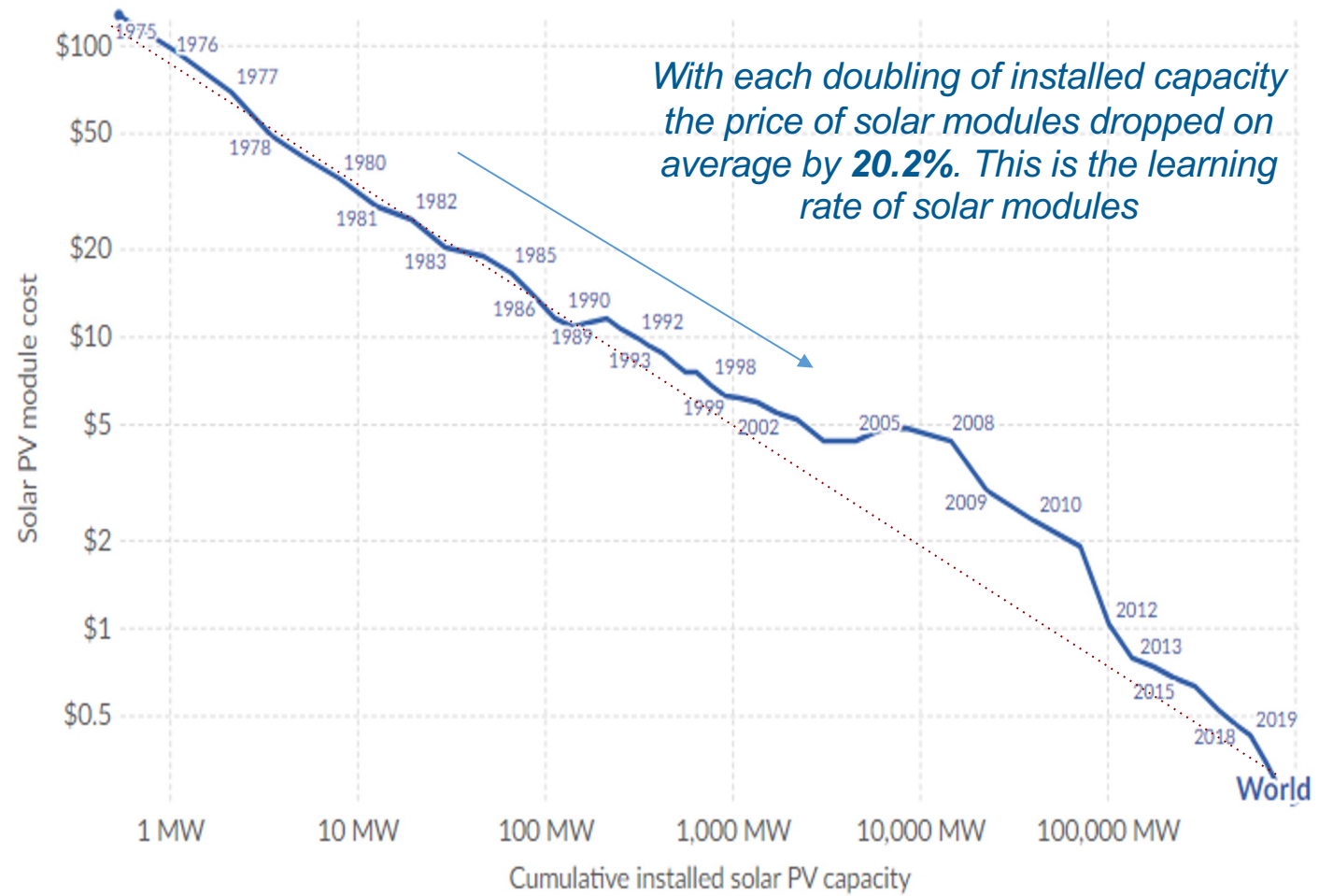


Skills & Talents

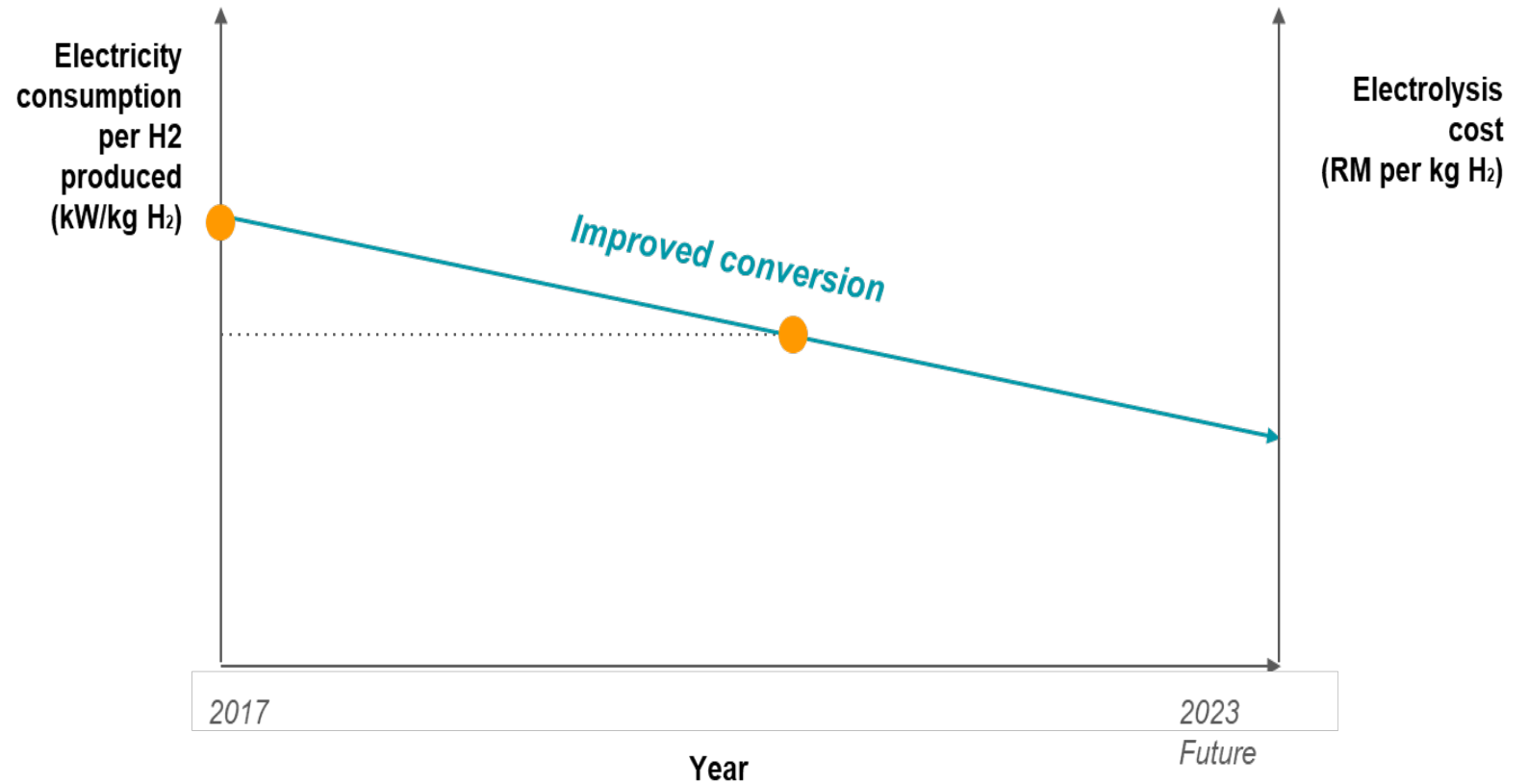


Public Awareness

The price of solar modules declined by 99.6% since 1976



More effective technology will improve electrolysis efficiency over time, reducing the cost of producing hydrogen



# Our humble H<sub>2</sub> journey so far



Thank you

