



KEMENTERIAN INVESTASI
DAN HILIRISASI/BKPM



Bersatu Berdaulat
Rakyat Sejahtera
Indonesia Maju

PYC International Energy Conference 2025

*Towards Indonesia Emas 2045: Aligning Energy
Security, Economic Growth, and Environmental
Sustainability*

Jakarta, 23 August 2025

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Ministry of Investment and Downstream Industry/
Indonesia Investment Coordinating Board





1

Overview of Macroeconomic and Investment Landscape

Recent Developments, Key Indicators, and Future Targets



2

National Development Direction: Greening the industry through downstreaming acceleration in renewable energies

Downstreaming supports in the battery storage, solar panels, and other related industries



Indonesia's Economy Grows by 5.12% (Year-on-Year) in the Second Quarter of 2025

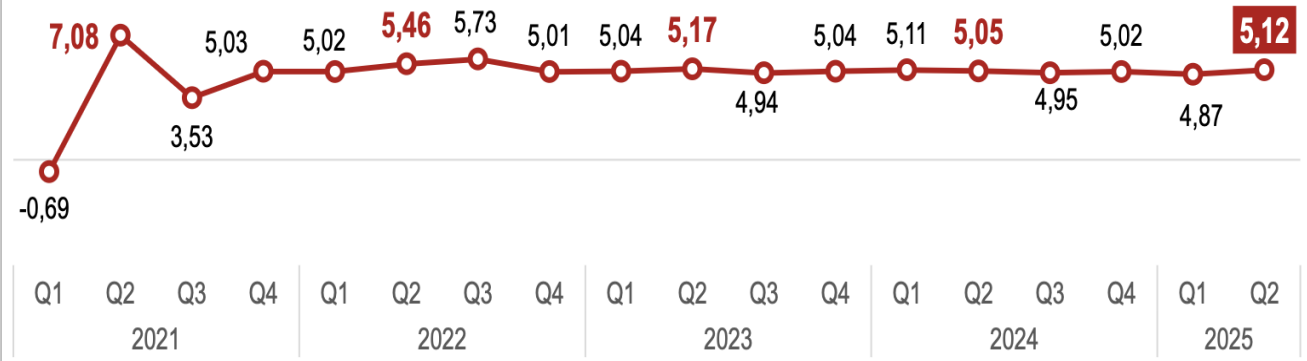
Driven by household consumption (54.25%) and investment (27.83%).

Indonesia's Economic Growth (5,12%, yoy)

Q2 2025 Economic Performance

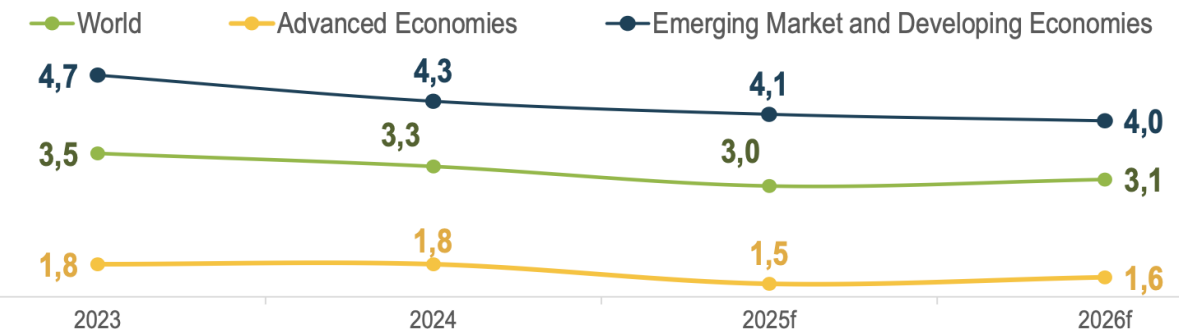
q-to-q growth: 4,04%

y-on-y growth: 5,12%



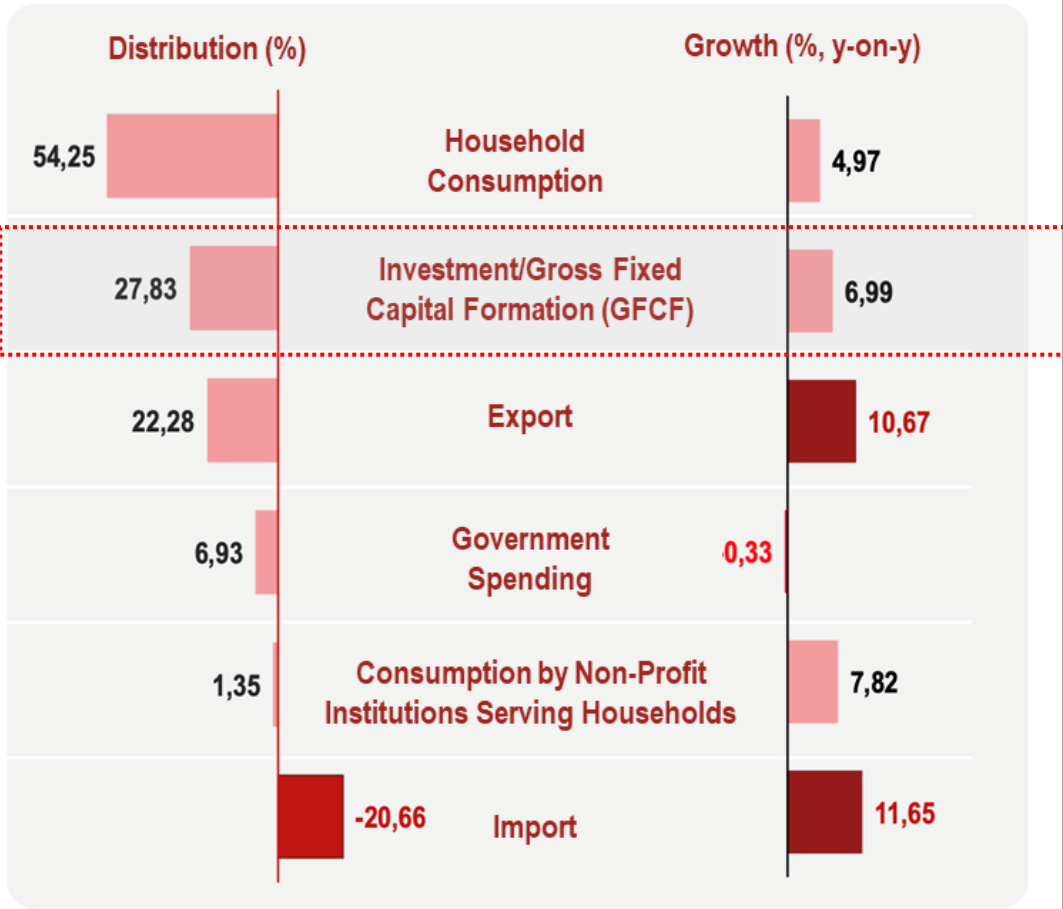
Global Economic Growth

2023-2026f (% , y-on-y)



f = forecast

GDP Distribution and Growth by Expenditure Component



All expenditure components registered positive growth, with the exception of Government Spending



IDR13,032.8 T (~USD814.6 B) of FDI & DDI are needed in 2025-2029 to achieve 8% growth

This value is equivalent to 143% of the investment realization in the last 10 years

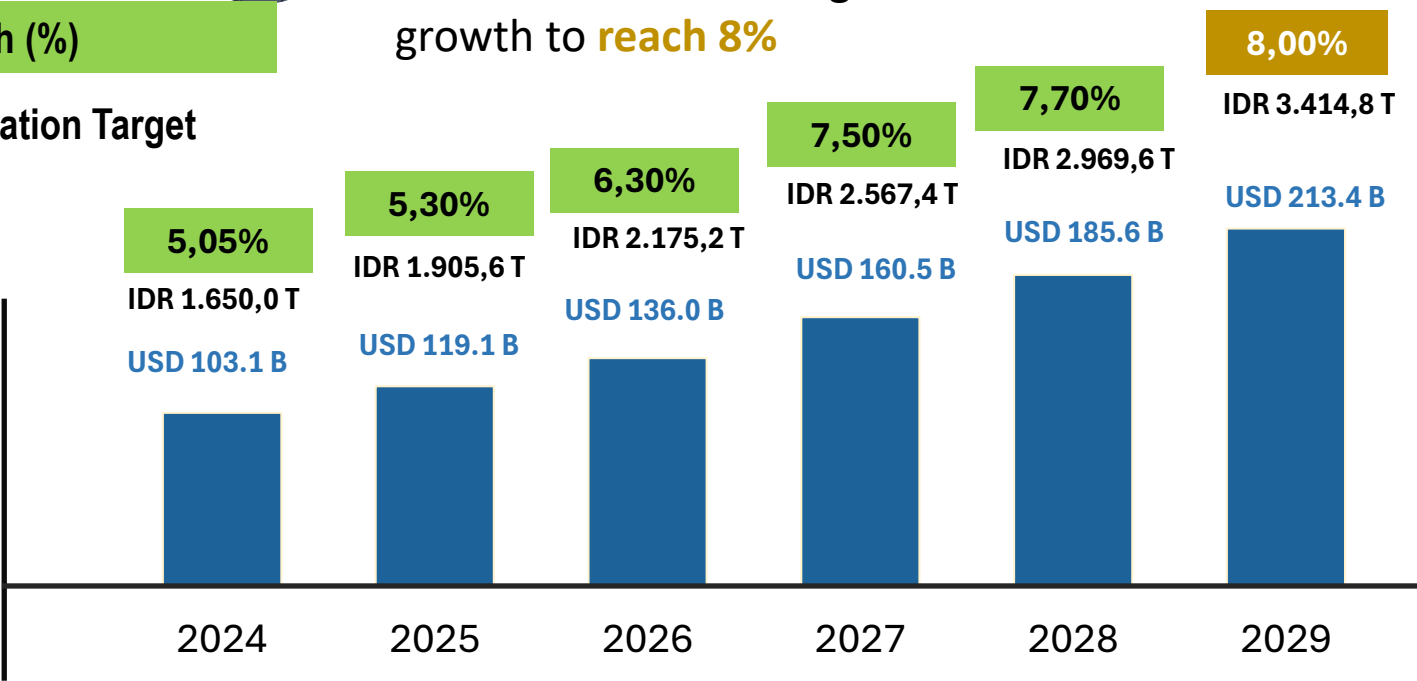


Economic growth and FDI-DDI Target for 2025-2029

President Prabowo targets economic growth to **reach 8%**

Economic Growth (%)

Investment Realization Target
(in IDR/USD)

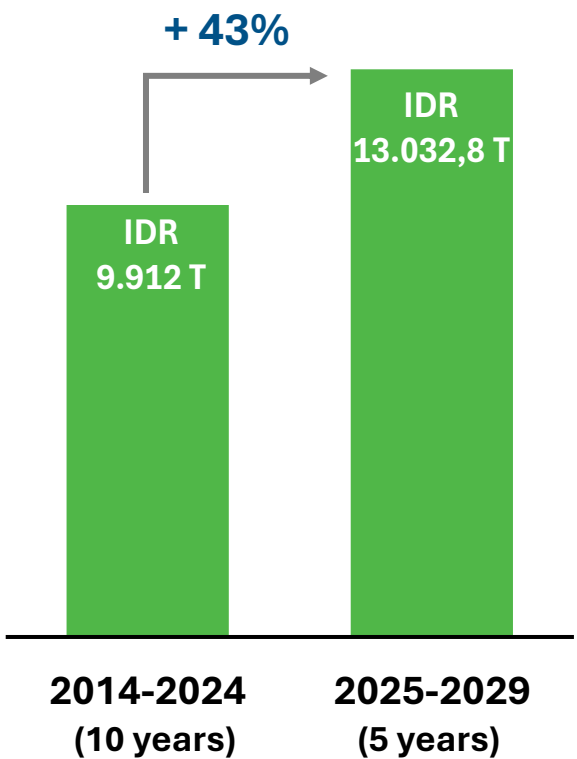


Average investment growth (2025-2029) 15.67% per year

Assumption: if 1USD = IDR16,000
T: Trillion ; B: Billion

Source: Ministry of National Development Planning/Bappenas, 2024

Comparison between DI performance in 2014- 2024 with the target for 2025-2029



Investment Realization: First Semester 2025



(49,5%)

From 2025 target

Rp 1.905,6 T

▲ **13,6% (YoY)**

Indonesian Labour Absorption



1.259.868

FDI and DDI Contribution

FDI (45,9%)

Rp 432,6 T



DDI (54,1%)

Rp 510,3 T

Java vs Outside Java Contribution

Java (49,5%)

Rp 466,9 T



Outside Java (50,5%)

Rp 476,0 T

Exchange Rate is based on APBN USD 1 = Rp 16.000,00; T= Trillion

Top 5 Investment Location First Semester 2025 (FDI + DDI)

1. West Java
Rp141,0 T (15,0%)
2. Jakarta
Rp 140,8 T (14,9%)
3. East Java
Rp 74,7 T (7,9%)
4. Central Sulawesi
Rp 64,2 T (6,8%)
5. Banten
Rp 60,7 T (6,4%)

Top 5 Sectors First Semester 2025 (FDI + DDI)

1. Basic Metals, Metal Goods, Non-Machinery & Equipment Industry
Rp 134,4 T (14,3%)
2. Transportation, Warehousing & Telecommunications Rp110,7 T (11,7%)
3. Mining Rp 102,2 T (10,8%)
4. Other Services Rp 85,7 T (9,1%)
5. Housing, Industrial & Office Estates Rp 75 T (8%)

Top 5 FDI Source Countries, First Semester 2025

USD 8,8
Billion



Singapore

USD 4,6
Billion



**Hong Kong,
China**

USD 3,6
Billion



China

USD 1,7
Billion



Malaysia

USD 1,6
Billion



Japan

32,4%

17,0%

13,2%

6,4%

6,0%

Investment In Downstream Industry, 1st Semester 2025

Rp 280,8 Trillion  YoY 54,8%

29,8% from total investment realization in First Semester 2025

Mineral (Total Rp 193,8T)

Nickel	Rp94,1 T	Iron Steel	Rp21,5 T	*) Others: Sillica Sand, Gold, Silver, Cobalt, Manganese, Coal, Buton Asphalt
Copper	Rp40,0 T	Tin	Rp3,5 T	
Bauxite	Rp27,7 T	Others*	Rp 7,0 T	

Plantation and Forestry (Total Rp67,4 T)

Palm Oil	Rp31,6 T	Rubber	Rp8,2 T	*) Others: Nutmeg, Coconut, Cocoa, and Biofuel
Log Wood	Rp24,9 T	Others*	Rp2,7 T*	

Oil and Gas (Total Rp17,3 T)

Crude Oil	Rp7,9 T	Natural Gas	Rp9,4 T
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Fisheries and Marine (Total Rp2,3 T)

Commodities include Salt, TCT Fish (Tuna, Skipjack, Mackerel), Shrimp, Seaweed, Blue Crab, and Tilapia.

Top 5 Downstream Location



1. Central Sulawesi
(Rp55,4 T)



2. North Maluku
(Rp33,9 T)



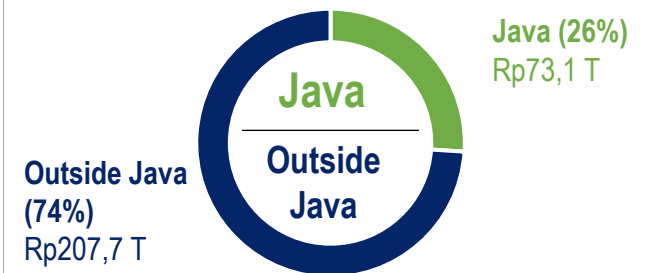
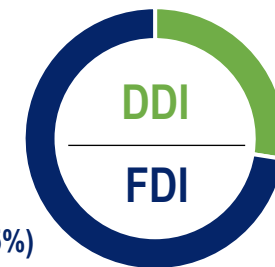
3. West Java
(Rp28,7 T)



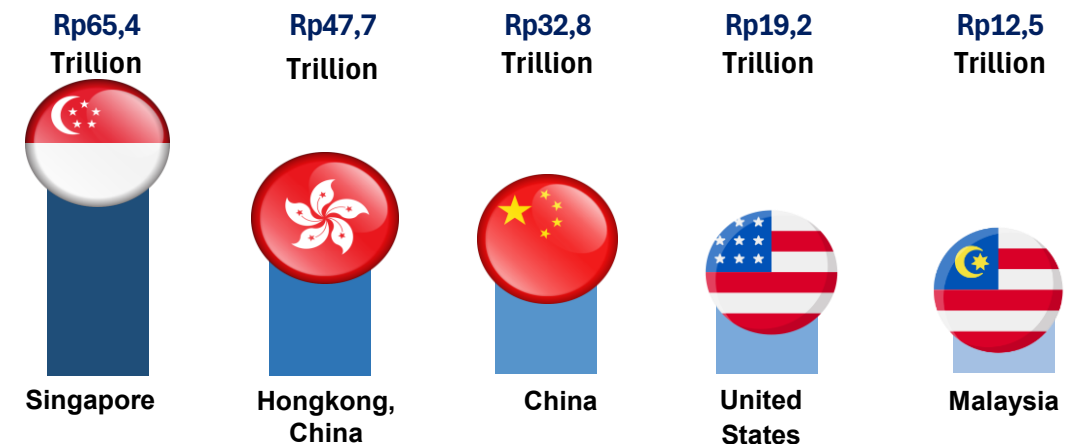
4. East Java
(Rp18,3 T)



5. West Nusa Tenggara
(Rp17,9 T)



Top 5 Countries Source of FDI





Vision of Golden Indonesia 2045: Sovereign, Developed & Sustainable Archipelagic Country

Self sufficiency and economic transformation as strategies to achieve



Bersatu Berdaulat
Rakyat Sejahtera
Indonesia Maju

Asta Cita 8 missions



STRATEGY FOR THE NATIONAL TRANSFORMATION

MENUJU INDONESIA EMAS 2045



Towards an Advanced and Prosperous Indonesia

1. **Strengthening the ideology** of Pancasila, democracy. and human rights.
2. **Strengthening the national defense and security system** as well as promoting **self-sufficiency in food, energy, and water through the creative economy, the green economy, and the blue economy**
3. **Continuing infrastructure development and increasing quality employment opportunities**, promoting entrepreneurship. developing the creative industry, and advancing the agro-maritime industry in production centers through the active role of Koperasi
4. **Strengthening human resource development**, science, technology. Education, health, sports achievements, gender equality, and enhancing the role of women, youth, and persons with disabilities
5. **Continuing downstream industrialization to increase value-added in the national level**
6. **Grassroots development starting from villages** to drive economic growth, economic equity, and poverty eradication
7. **Strengthening political, legal, and bureaucratic reforms** as well as enhancing the prevention and eradication of corruption, dangerous drugs (narcotics), gambling, and smuggling
8. Strengthening the alignment of harmonious living with the environment, nature, and culture, as well as enhancing interfaith tolerance to achieve a just and prosperous society



New and Renewable Energy

Total potential of **~3,700 GW** (Solar: 3,294 GW; Wind: 155 GW; Hydro: 95 GW; Tidal: 63 GW; Bioenergy: 57 GW; and Geothermal: 23 GW).

Current installed capacity of **~14 GW** or only **less than 1%** of the potential.



Downstream Industry

- Global **major producer** of strategic natural resources: Nickel (#1), tin (#2), bauxite (#6), palm oil (#1), rubber (#1), fish (#1), seaweed (#2).
- **Roadmap of downstream industries** for 28 strategic commodities, with a potential investment value of USD618 billion until 2040.

7



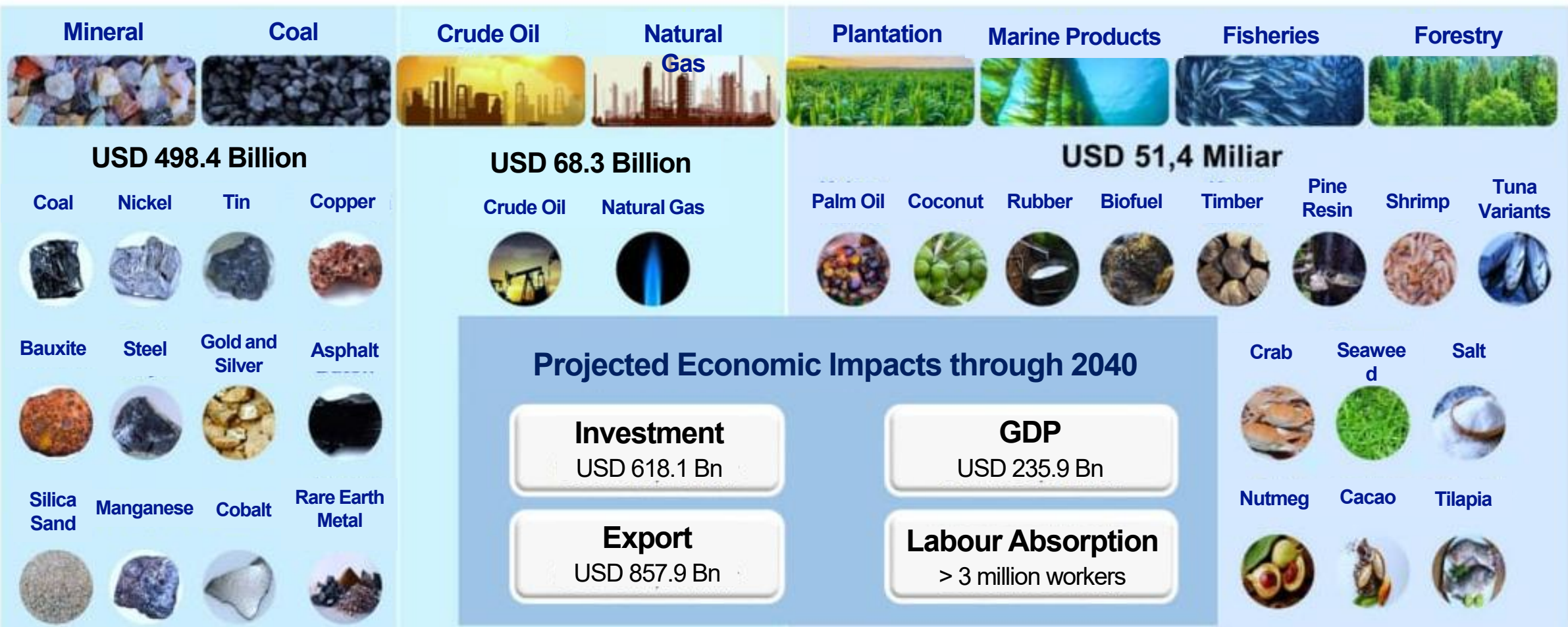
POTENTIAL COMMODITIES IN INDONESIA'S DOWNSTREAM INDUSTRY

Indonesia is a major global producer of 28 strategic commodities With abundant natural resources, Indonesia is the best spot to invest. Its improving investment climate and higher global profile added comparative values



* Fish commodities are specified to tuna, skipjack, and mackerel

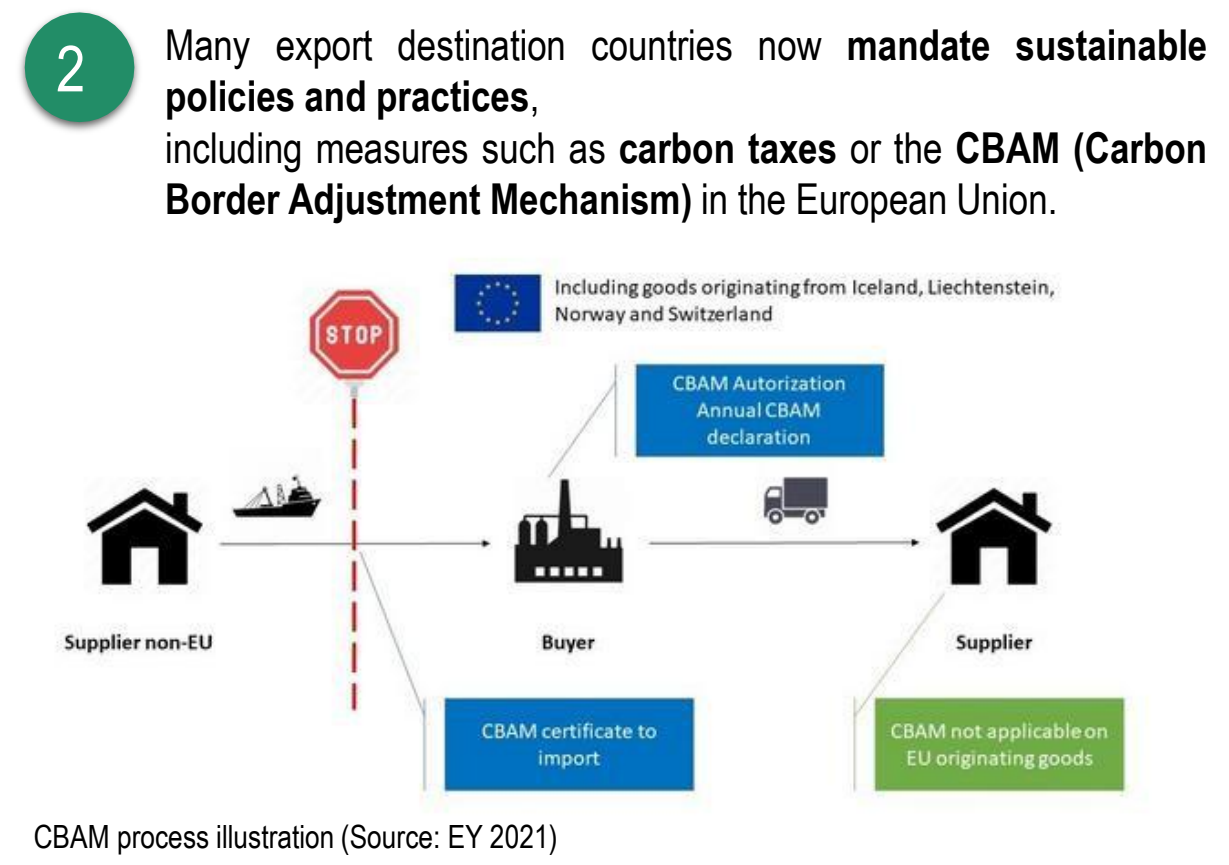
Indonesian government is firmly committed to developing the downstream industry. The Ministry of Investment & Downstream Industry/BKPM has contributed to this effort by creating a roadmap for Indonesia’s downstream industry, which provides investors with a clear overview of natural resources and natural reserves, technology and market projections, in 7 sectors and 28 commodities for the next two decades. It will enable investors to make informed decisions about investing in our downstream industry → **Investment potential is projected to reach US\$618.1 billion by 2040, with the creation of 3 million jobs**





Source: PwC 2024 Voice of Consumer Survey

According to a survey by **PwC (2024)**, consumers are willing to pay **9.1% more** for products with a **lower carbon footprint**.



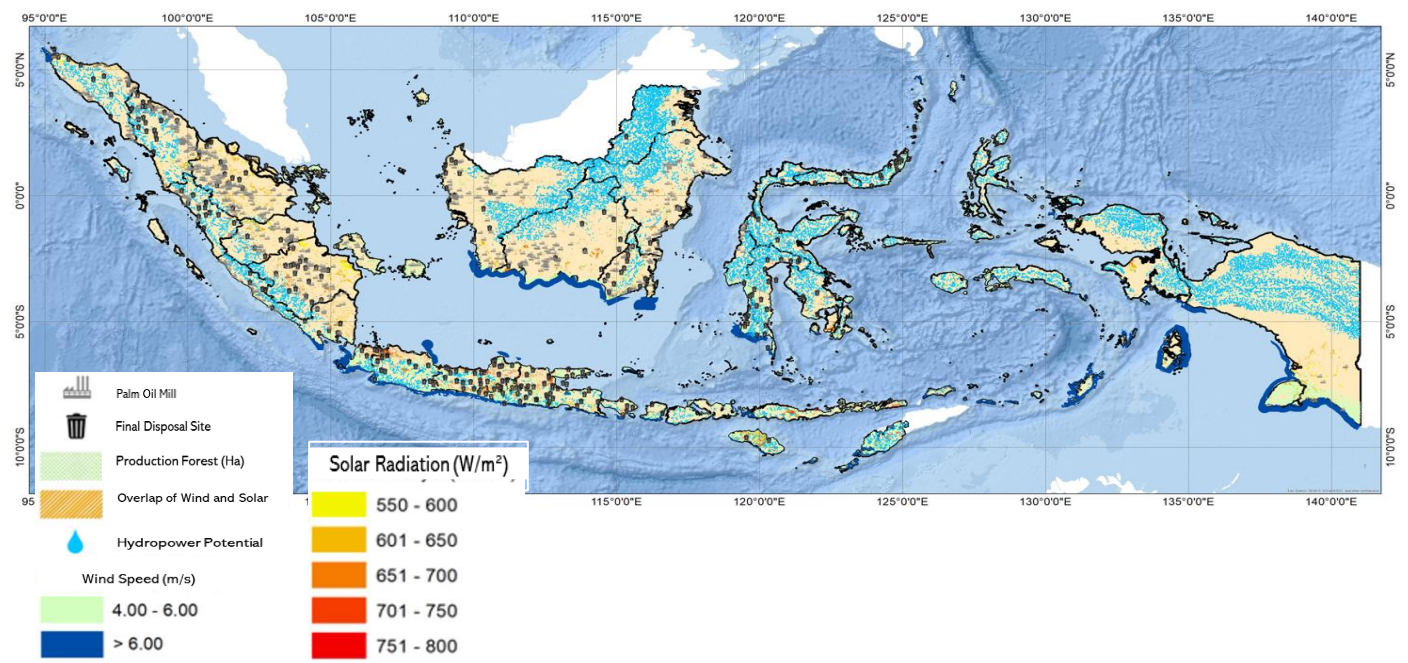
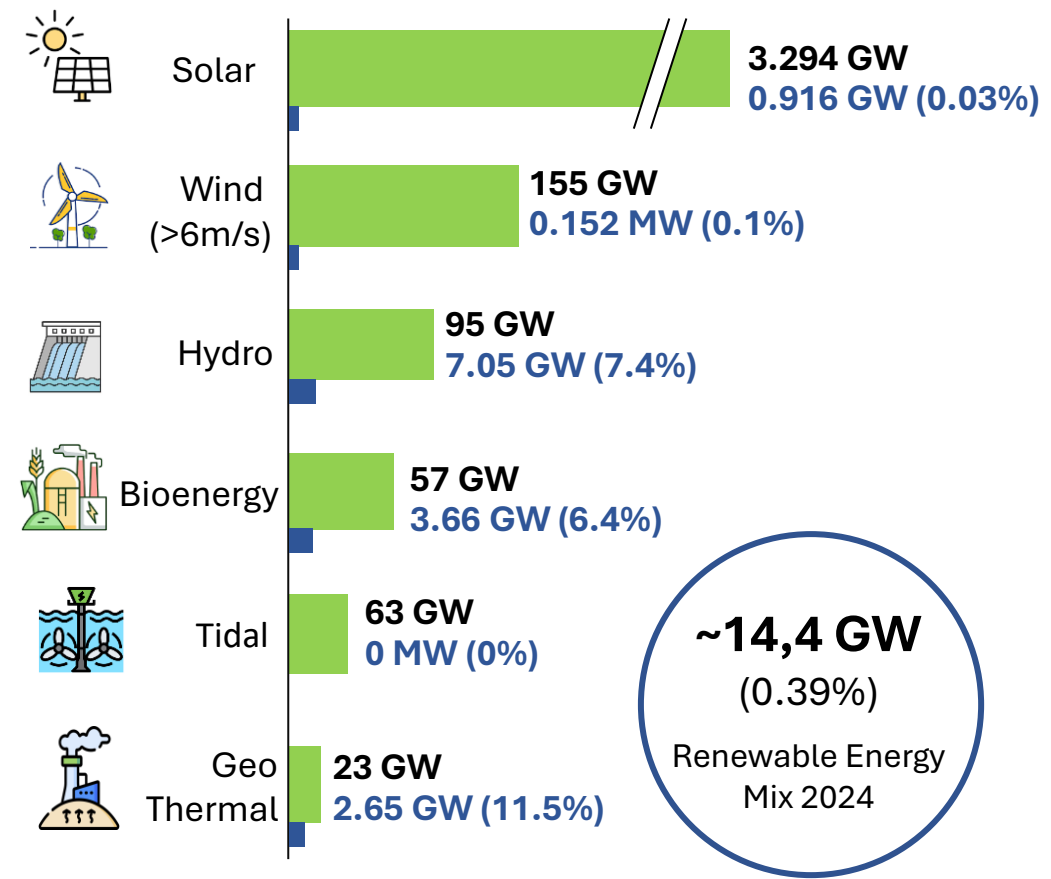
The implementation of the **CBAM (Carbon Border Adjustment Mechanism)** requires EU importers to purchase **carbon certificates** priced equivalent to the **CO₂ emissions** generated during the production of imported goods, ensuring foreign products meet the **same climate standards** as EU-manufactured goods.



Indonesia Has Great Renewable Energy Potential To Be Utilized

A total of 3.687 gigawatts of renewable energy across the country

Indonesia has a potential **3.687 GW**
of Renewable Energy (EBT)

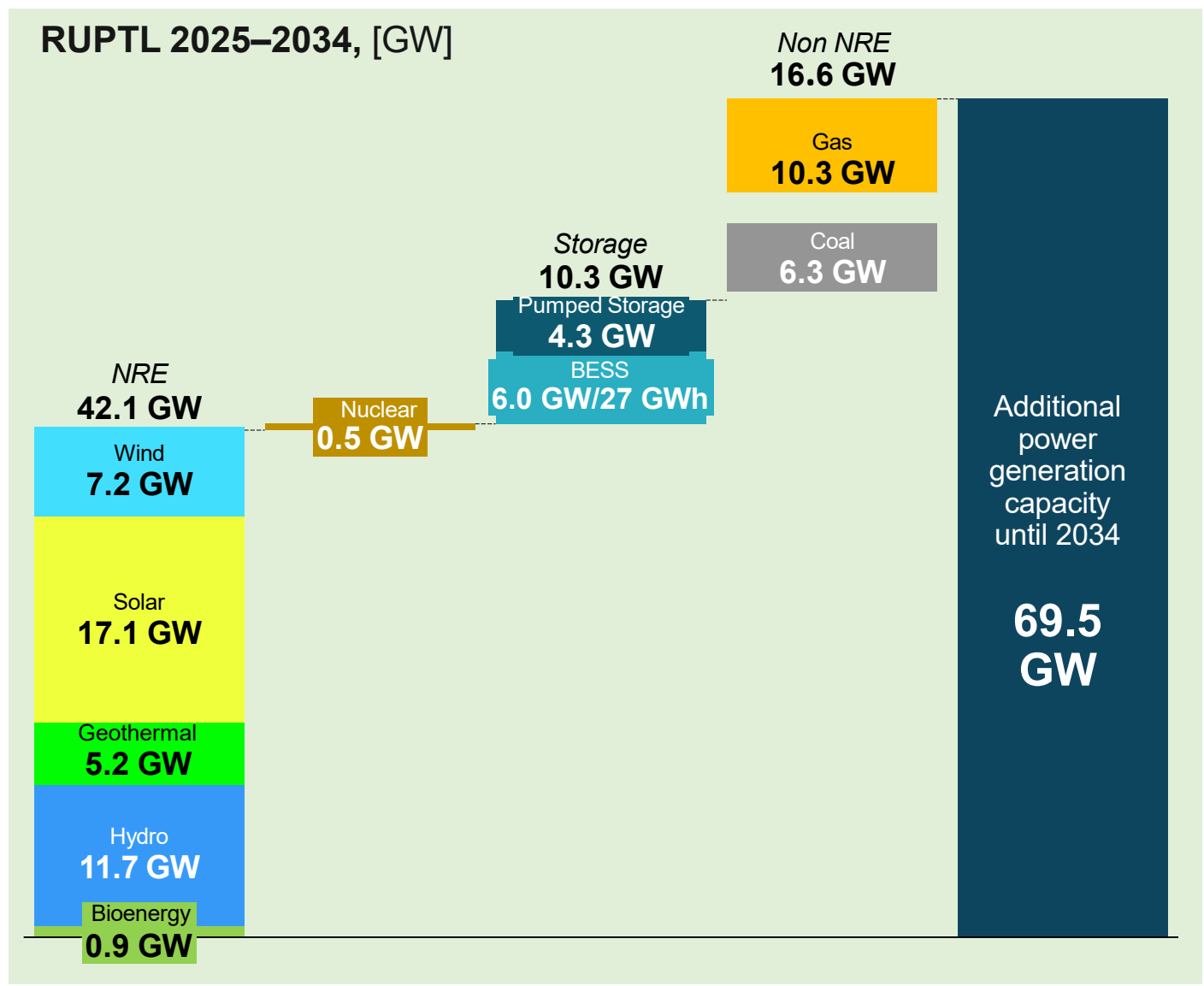


- Hydropower potential is spread across Indonesia, particularly in North Kalimantan, Aceh, West Sumatra, North Sumatra, and Papua.
- Solar potential is distributed throughout Indonesia, especially in East Nusa Tenggara, West Kalimantan, and Riau, which have higher radiation levels.
- Wind potential (>6 m/s) is mainly found in East Nusa Tenggara, South Kalimantan, West Java, South Sulawesi, Aceh, and Papua.
- Ocean energy potential is spread across Indonesia, particularly in Maluku, East Nusa Tenggara, West Nusa Tenggara, and Bali.
- Geothermal potential is concentrated along the Ring of Fire, covering Sumatra, Java, Bali, Nusa Tenggara, Sulawesi, and Maluku



In the **2025–2034**
RUPTL,
76% of the additional
power generation
capacity comes from
NRE,¹ including **Energy
Storage.²**

¹ Renewable Energy (RE), equipped with Battery Energy Storage System (BESS) for Variable RE sources (Wind and Solar)
² Including Pumped Storage & BESS. BESS capacity assuming a levelized cost of 4 cUSD/kWh



*Not including 3 GW Rooftop PV Quota
*Including the development plan for Hybrid PLTU (Coal 1.2 GW, PLTS 0.3 GW and BESS 0.15 GW)

Downstream Industry to Support the National Energy Transition

Today's Commodities (limited source/non-renewable)

**Downstream Industry to optimize
value added of raw commodities**

Optimizing the added value of
Indonesian raw commodities through
Downstream Industry



Nickel #1 World (43%)



Cobalt #3 World (7,19%)



Bauxite #6 World (4%)



Silica #18 World (0,9%)



Natural Gas #4 Asia Pacific (0,7%)



Salt # 47.734 Ha of potential land



Palm Oil #1 world (58,7%)

Future Commodities (Sustainable-renewable commodities)

**Development of renewable
industrial supply chains**

Downstreaming of raw commodities into
green products to increase Domestic
Renewable Energy Supply



**Battery Electric
Vehicle**



**Battery Energy Storage
System (BESS)**



Solar Panel

**Improving national energy resilience
and self-sufficiency, saving national
foreign exchange**

Supporting Carbon Emission Reduction,
Increasing Foreign Exchange Potential, and
National Energy Resilience



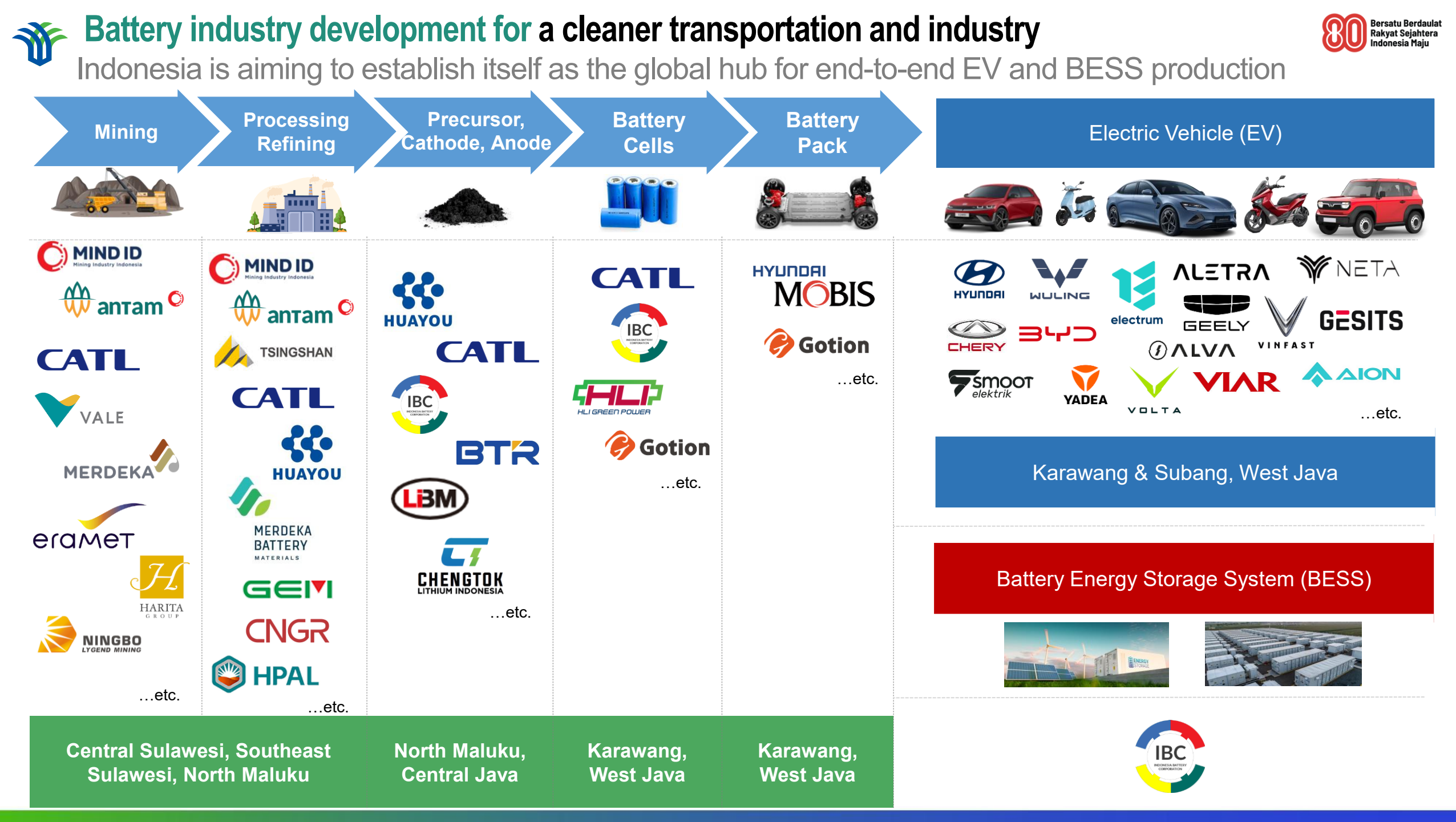
Hydrogen



Biofuel
(Bioavtur, Biodiesel,
Bioethanol)



Solar Energy



Solar Panel Ecosystem Development to Support Energy Transition

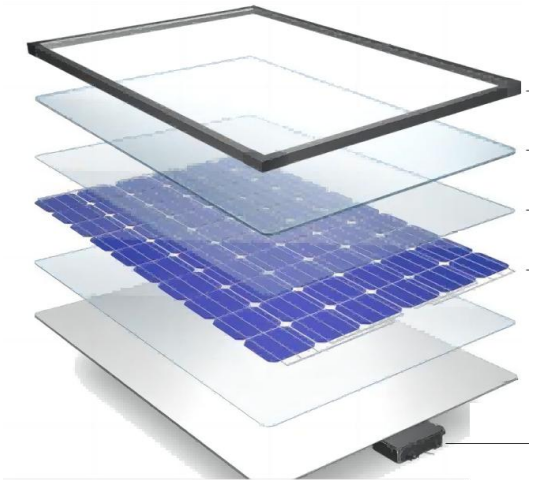
Indonesia has already produced 60% of solar panel components domestically



Percentage of Raw Materials in Solar Panels

- Silica 72.42%
- Bauxite 24.02%
- Copper 3.48%
- Tin 0.08%

Solar panel components



Component	Product Origin
Aluminum Frame	Indonesia
Front & Back Glass	Indonesia
EVA / POE	Indonesia
Solar Cell	Indonesia
Junction Box	Indonesia
Ribbon	Import
Silicon	Import



Terima Kasih

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