

“Indonesia Biodiesel Program for Energy Transition: Addressing Challenges and Strategic Solution”

**The 9 th Government-Private Forum on the
Cleaner Energy Future
Initiative for ASEAN (CEFIA)**

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World Biodiesel Mandatory

Countries around the world have implemented Biodiesel Blending Policies to support energy security and emission reduction

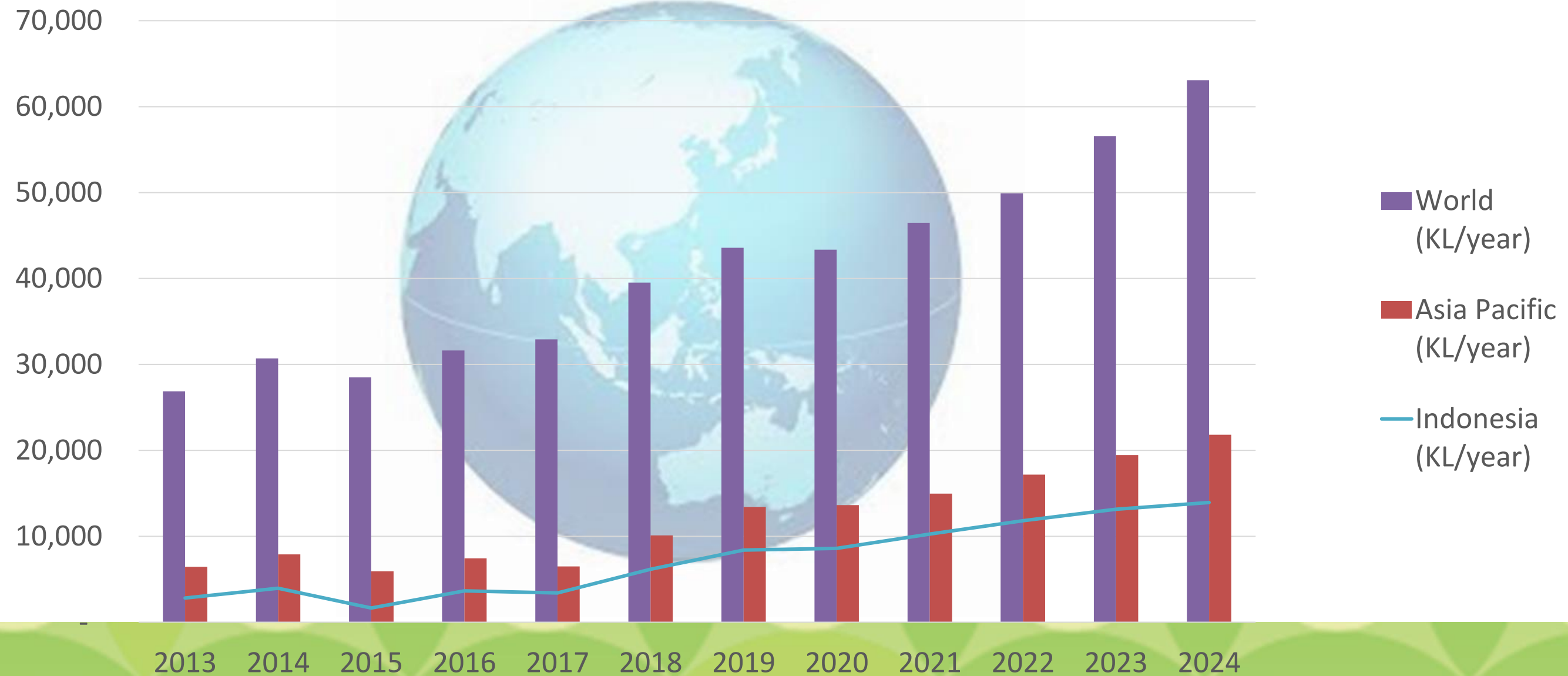
Country	Regulation
Argentina	B10 since April 2016, est.750 million gallons/year. Decision to underblend in 2021 due to COVID
Brazil	B2 in 2008. In 2017 increased to B8, B10 in 2019, and B12 in 2020. Has eyes on B15 in 2023.
Colombia	B10 mandate nationwide since 2018
Costa Rica	B20 mandate in place
Ecuador	B5 mandate since May 2013
European Union	New directive, RED II for 2021 - 2030 proposed biofuel reduction from 7% to 3,8% in 2030.
Norway	B3,5 as current mandate. Increased from B2,5 in 2012
Australia	Queensland: 0,5% biodiesel New South Wales: B2 mandate
Indonesia	B15 in 2015, B20 since 2016, B30 mandate since 2020, B35 mandate since 2023, B40 Mandates start 2025
Malaysia	B20 mandate postponed due to COVID
Peru	B2 mandate in January 2019, plan to boost to B5 over the next five years
Philippines	B2 mandate , using coconut oil
South Korea	B2,5 mandate since August 2015
Thailand	B10 mandate in effect in 2018 with plan for subsidized B20 in trucks on voluntary basis
Uruguay	B6 mix in gasoil
USA	Minnesota: B20 mandate since 2008, will be fully implemented in summer months (Apr-Sep) Oregon: B5 for transportation diesel supply

Biodiesel Production

Asia Pacific & World

Kiloliter/Year

World, Asia Pacific and Indonesia Biodiesel Production



Sources: Energy Institute Statistical Review of World Energy 2025

What Drives Us

Key Driving Factors (Biofuel Program In 2005 – 2006)



INDONESIA BECAME a *NETT IMPORTER*

(Cumsumption 2025 ~ 1.462 m Barrels/day , Production ~ 557.000 Barrels/day)



Rising global Oil Price (Peaked at US\$ 140/BARREL, Jun 008)

(US 85.08/Barrel ;OPEC Basket Price, 1 Jan. 2026)



Supporting **POVERTY ALLEVATION** and **JOB CREATION**

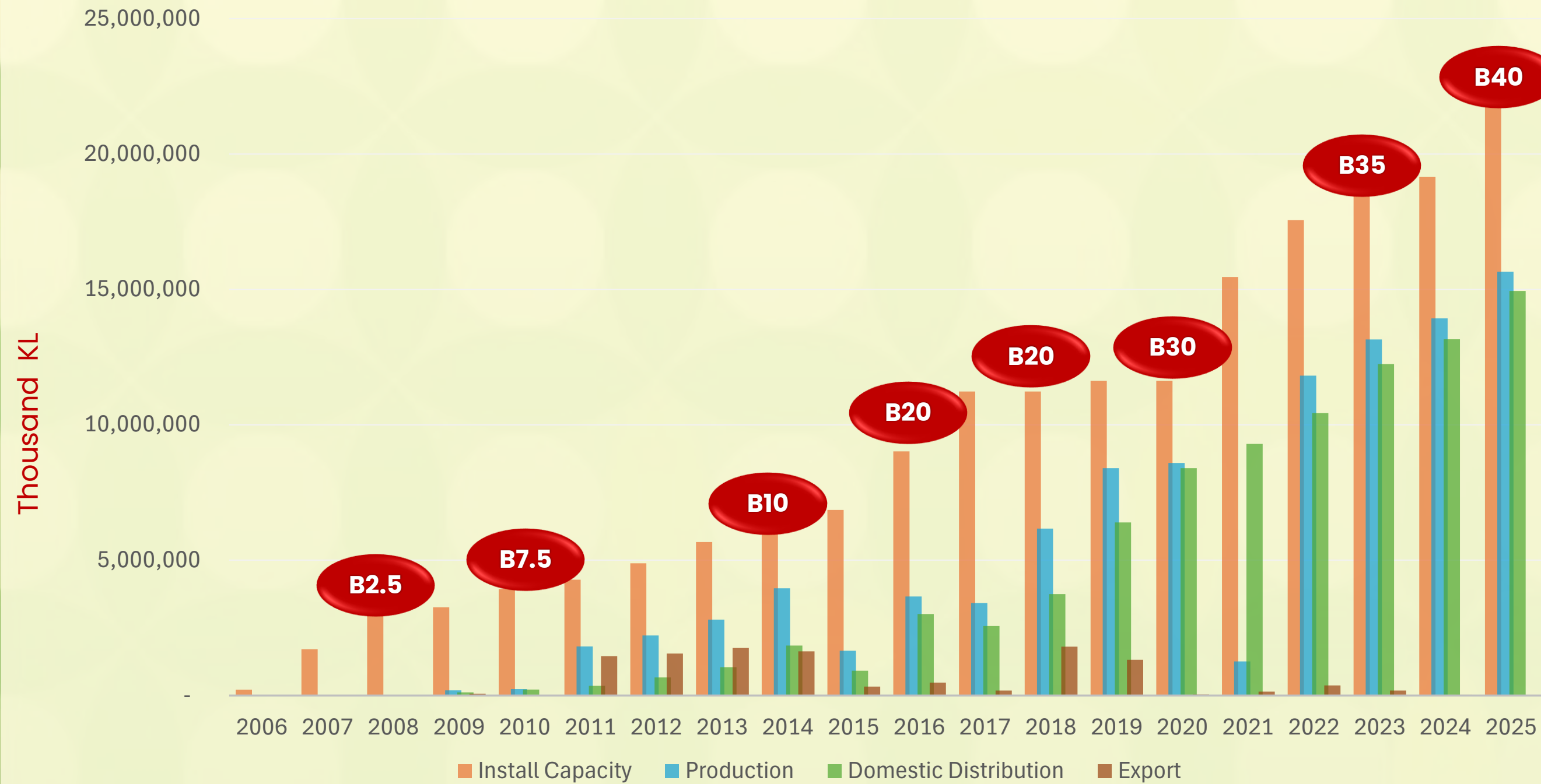


Reducing GHG Emissions



Leveraging Indonesia as the World's Largest Palm Oil Producer

Production and Capacity



Since 2005, Indonesia's Biodiesel Industry has experienced significant growth in installed capacity and production. By 2006, Installed Capacity is projected to reach 22 million KL, with domestic consumption around 15.6 Million KL

Installed Capacity Biodiesel Industries 2026



(Mil KL)	2020	2021	2022	2023	2024	2025	2026
Consumption/Projection	8.4	9.3	10.45	12.29	13.1	15.15	15.6
Installed Capacity (Active)	11.62	15.46	17.56	18.68	19.15	19.15	22.02

Source : EBTKE


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B40 Program, 2026 (Projection)





Total Consumption for B40 ~
15.64 Mil KI (~**98** Mil barrel)
~Equivalent to **163** days
Indonesia oil production

Improving farmers income



26 Producers, 22.02 Mil KI
Installed capacity

Reducing ~ 42jt ton CO₂ eq (12%
from *enhanced* NDC energy
target)



Supporting ~**1.900.000**
upstream palm oil farmers
and ~14.730 off farm

Saving from oil import up to
Rp. 139.8 T (~ USD 8.48M)

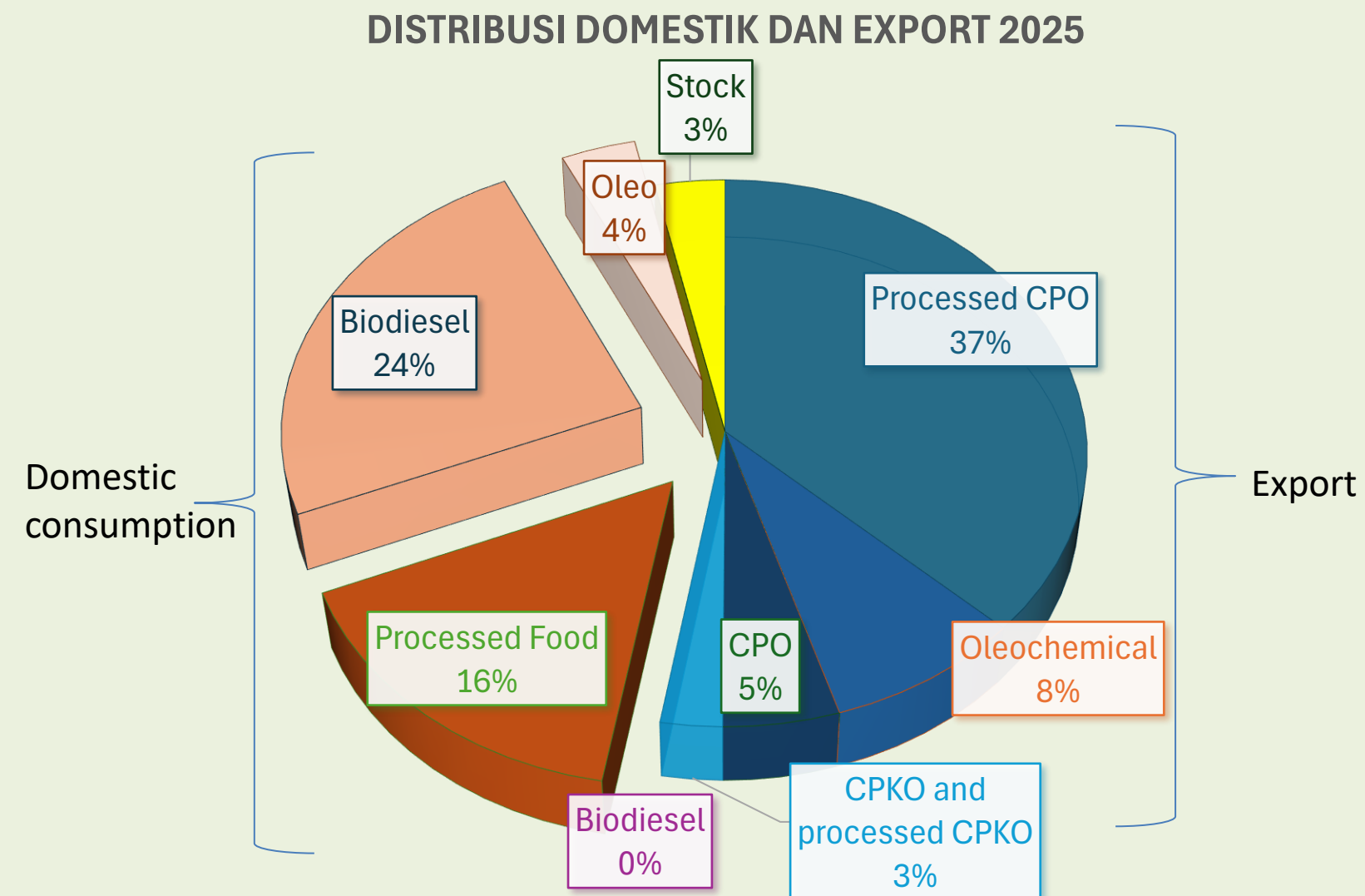
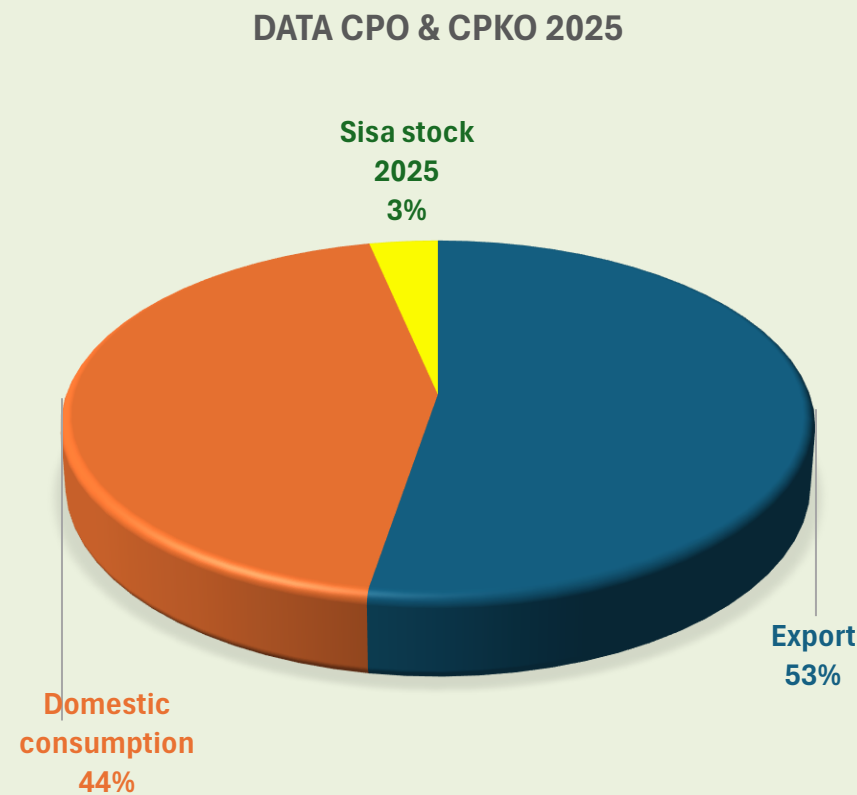


2025 Palm Oil Production & Distribution Map

Produksi	(in 1000 Ton)	Distribusi	(in1000 Ton)	%
Production CPO & CPKO 2025	56.553	Total Domestic Consumption	27.009	44%
Stock 2024	2.577	Total Export	32.343	53%
		Sisa stock 2025	2.068	3%
Total Production + Stock	59.130			



Food vs Energy?



Source, APROBI, GAPKI, GIMNI, APOLIN 2025

Considering to Environment

Indonesia has implemented:

- A deforestation Moratorium since 2011
- A moratorium on new palm oil plantations since 2018
- Establishment of the Peat and Mangrove Restoration agency (2016)

Also, it has been formed Peat & Mangrove Restoration Board in 2016

Palm Oil Sustainability Standard RSPO (Roundtable on Sustainable Palm Oil) standard. 51% Plantation coverage

ISCC (International Sustainability & Carbon Certification), (Widely adopted internationally)

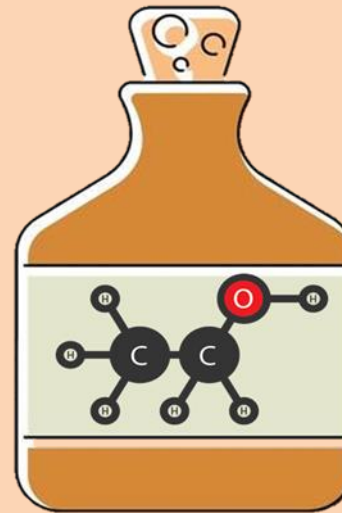
ISPO (Indonesia Sustainable Palm Oil) standard. Over 800 Indonesia plantations certified

Continue to develop the Biofuel environment friendly processing technology

Bioenergy in Indonesia



Biodiesel
B-40 to B50



Bioetanol E5
Pertamax Green95



Bioavtur
J2,4 in commercial
flights



HVO
Diesel Biohidrokarbon

Key Challenges



Securing **Feedstock supply** (CPO, Methanol & Catalyst)



Maintaining Biodiesel **Quality Standards**



Improving **handling and storage systems**



Strengthening **Logistics & Infrastructures**



Addressing **Price competitiveness** vs fossil diesel



Ensuring readiness for **B50 Implementation**

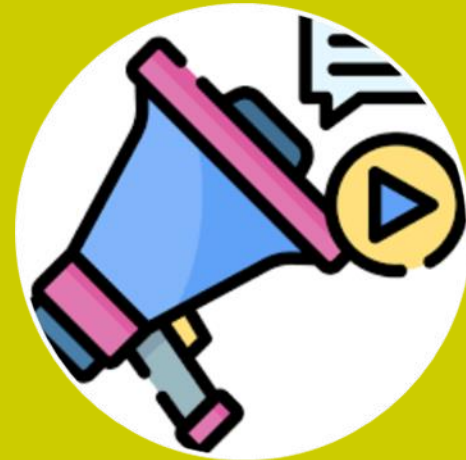


Facing **global trade barriers** (EU RED II, CVD, EUDR)

Strategic Responses



Strengthening
International
Diplomacy



Promoting Positive
Palm Oil
Campaigns
Globally



Enhancing Sustainability
Recognition



- Legal actions against unfair trade barriers
- Building Integrated ecosystems

INTERCONNECTED supported by institutions and expert teams as well as funding

Conclutions



Indonesia's Biofuel Industries continues to advance toward **net-zero emissions**, while addressing both technical and trade challenges



Strong Collaborations between **government, industry, and global stakeholders** remain essential



Above all, ensuring the **welfare of smallholder farmers** remains a top priority in sustaining the biofuel ecosystem





THANK YOU!



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