

Peran Program Mandatory Biodiesel Dalam Mendukung Percepatan Realisasi Program Energi terbarukan

ICE-BSD Tangerang , 17 November 2021

Jummy BM Sinaga

Indonesia Biofuels Producer Association







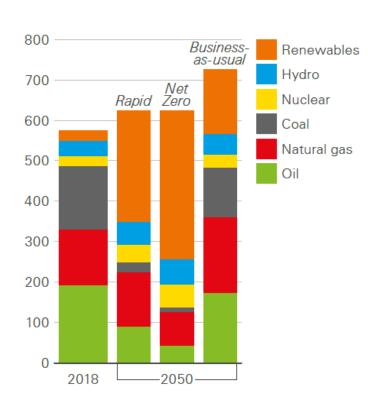
- 1. Transisi Energi
- 2. Konversi Minyak Sawit menjadi Food grade, Oleochemcial, Green Energy
- 3. Program Mandatory Biodiesel
- 4. Peran Biodiesel dalam GHG Reduction
- 5. Peran Biodiesel terhadap Ekonomi & Sosial

1. Transisi Energi



Primary energy consumption by source

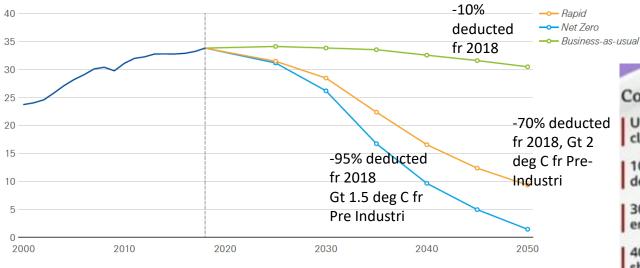
EJ



Three scenarios to explore the energy transition to 2050



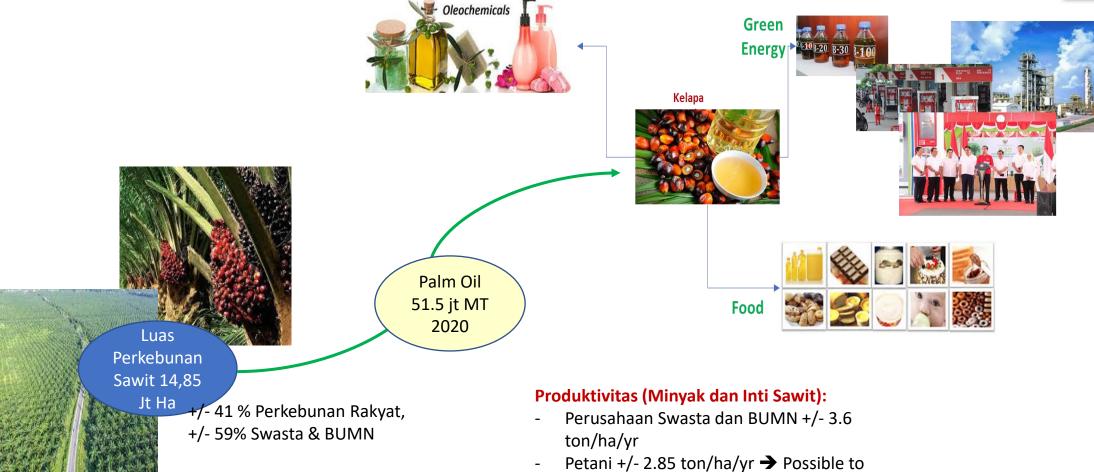
Gt of CO₂





2. Konversi Minyak Sawit menjadi Food grade, Oleochemcial, Green Energy





improve up to 20%

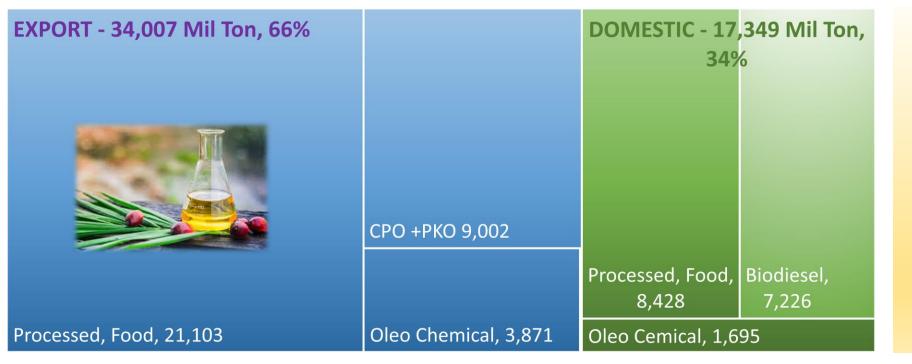
Source, BPS, 2020



2020 Palm Oil Production & Distribution Map

2020 Palm Oil Production, 51,584 Mil Ton

■ DOMESTIC - 17,349 Mil Ton, 34% ■ EXPORT - 34,007 Mil Ton, 66%



Biodiesel
Production for
domestic took 14%
from the 2020
Palm Oil
Production

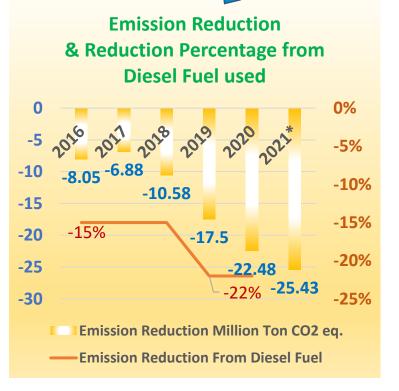
2021 projection,
Biodiesel domestic
will use about
15.2% from 2021
Palm Oil
Production.



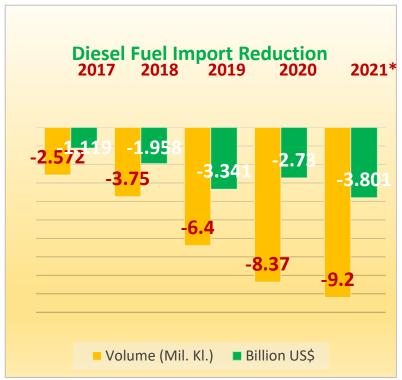
4. Peran Biodiesel dalam GHG Reduction







- Last year (2020)
 Biodiesel could
 contribute reducing
 22.48 mil. ton CO_{2 eq}.
- In 2020, Biodiesel contributes about 7.8% to the GHG Emission reduction energy target as Indonesian NDC in 2030
- Significantly decreasing Diesel Fuel import



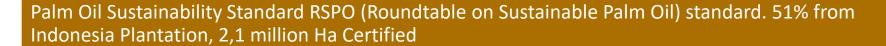
Source, APROBI, 2021



Considering to Environment

Indonesia has implemented the moratorium on deforestation for any use since 10 (2011) years ago, and moratorium for new Palm plantation since 2018.

Also, it has been formed Peat Restoration Board in 2016



ISPO (Indonesia Sustainable Palm Oil) standard. More than 800 Indonesia plantations, 4.5 million already certified. Soon we have the ISPO Down Stream and Indonesia Bioenergy Standard Indicator,

ISCC (International Sustainability & Carbon Certification), lot of Indonesian Companies certified.

Continue to develop the Biofuel environment friendly processing technology



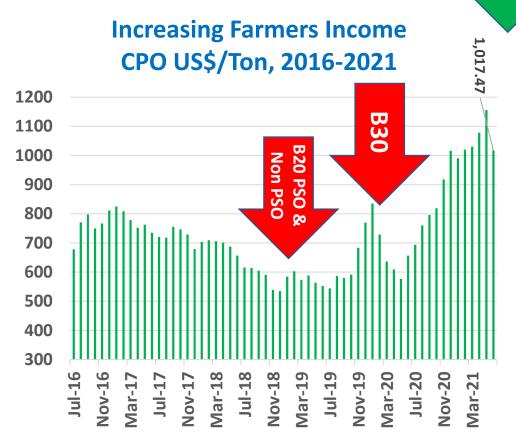




5. Peran Biodiesel terhadap Ekonomi & Social



Social & Economy Impact



 Shown, the effect of the B20 program for PSO and Non PSO on CPO prices in September 2018 with prices tending to increase until the end of 2019

B40

- Early to mid-2020, there was a decline in CPO prices due to falling world oil prices and the Covid 19 pandemic
- In May 2020, CPO prices have started to improve until now.

JPSTREAM WORKERS







Source, APROBI, Index Mundi, Aug. 2021



Product Development

Biodiesel

- Projection in 2021, ~9.2 M kl and export 1 M kl.
- B40 test in progress for implementation in 2022, Projection 12.8 M kl.

Product Development

- Bio-hydrocarbon fuels, HVO
- Green Diesel, Green Gasoline,
- Bio Avtur,

Feedstock

- Cellulose, hemicellulose, or lignin
- Micro algae
- Biomass, Crop residue

Technology

 Unique technologies and processes that transform a wide range of plant, waste, and cellulosic molecules into hydrocarbon molecules like those produced at conventional refineries

- The development of energy from oil palm continued, even heading to Bio-hydrocarbon products such as gasoline, diesel fuel also aviation fuel.
- Some research center to develop bioethanol from palm cellulose.
- Even research on micro algae and other types of raw materials continues to be explored and developed
- Of course, we also improving technology process

Source, APROBI November 2021



Conclusions



Palm plantations still allow for increased productivity with the same land area



Biodiesel Program Supporting the SDG's



Reducing the Fossil Fuels Import, Resilient & Affordable



Significantly Impact on Economy



Answering the Climate Change Challenges, Undeniably Decreasing GHG Emission



Towards B40/B50



Source, APROBI, 2021



Thankyou

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