





- > Recent Economic Updates
- Overview On The Effort To Reduce Fossil Fuel Subsidy
- The Importance of Renewable Energy Development
- Fiscal Support for Renewable Energy Development
- > The Way Forwards





## **COVID-19 PANDEMIC IS STILL ESCALATING GLOBALLY**

Daily death case keeps on increasing but recovery rate has also been improving.

GLOBAL CUMULATIVE CASES

67.00 mil

Highest cumulative cases:

1. U.S. 14.65 mil

2. India 9.14 mil

3. Brazil 6.07 mil

4. France 2.14 mil

5. Russia 2.09 mil

...

16. South Africa 767K

...

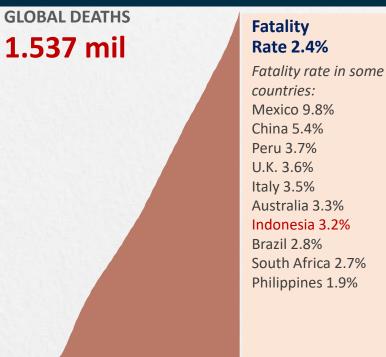
19. Chile 540K

21. Indonesia 569K

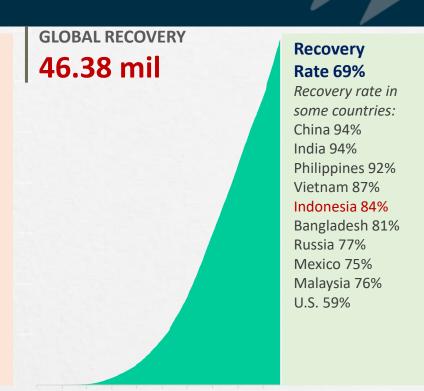
...

24. Bangladesh 447K

26. Philippines 418K



F M A M J J A S O



J F M A M J J A S O

Covid-19 pandemic forms a new pattern of with new waves that hit various countries  $\rightarrow$  daily cases rise significantly up to more

than 650 thousands per day.

J F M A M J J A S O

- Second waves are happening in Europe.
- Increasing cases in Japan and South Korea indicate a third wave.

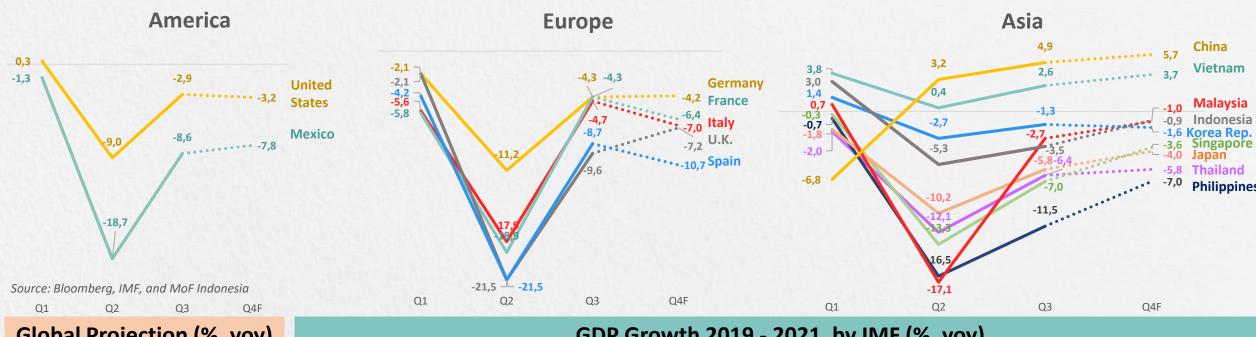


Source: Worldometer.info, As of 06 Dec 2020



## Q3-2020 WAS A TURNING POINT THAT SHOWED ECONOMIC IMPROVEMENT IN VARIOUS COUNTRIES

### **Quarterly GDP Growth in 2020 (%, yoy)**



### **Global Projection (%, yoy)**

#### **GDP Growth 2019 - 2021 by IMF (%, yoy)**

	2020F	2021F	С
IMF	-4.4	5.2	U.S
IIVII		3.2	Me
World Bank	-5.2	4.2	Ger
			Fra
OECD	-4,5	5.0	Ital

Country	2019	2020F	2021F	Country	2019	2020F	2021F
U.S.	2.2	-4.3	3.1	U.K.	1.5	-9.8	5.9
Mexico	-0.3	-9.0	3.5	Spain	2.0	-12.8	7.2
Germany	0.6	-6.0	4.2	China	6.1	1.9	8.2
France	1.5	-9.8	6.0	Vietnam	7.0	1.6	6.7
Italy	0.3	-10.6	5.2	Malaysia	4.3	-6.0	7.8
						*1.1.	C action ation

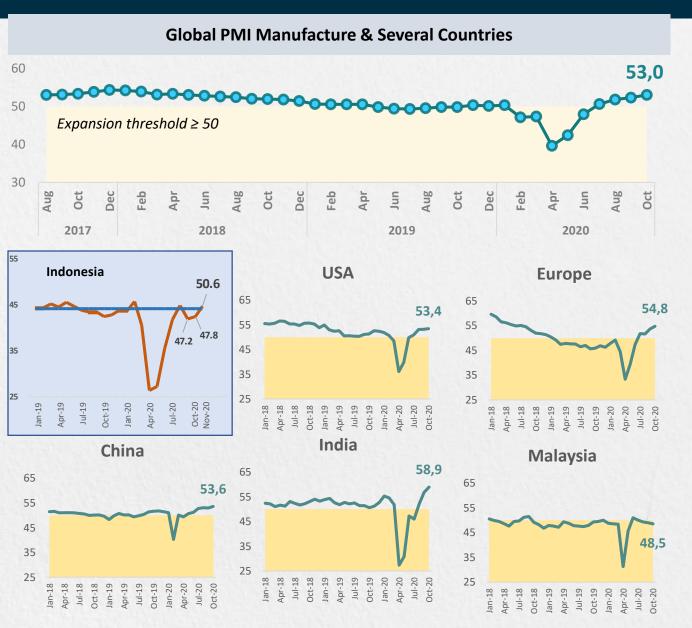
Country	2019	2020F	2021F
Indonesia*	5.0	-1.7 to -0.6	5.0
Korea Rep.	2.0	-1.9	2.9
Singapore	0.7	-6.0	5.0
Japan	0.7	-5.3	2.3
Thailand	2.4	-7.1	4.0
Philippines	6.0	-8.3	7.4

\*MoF estimation -

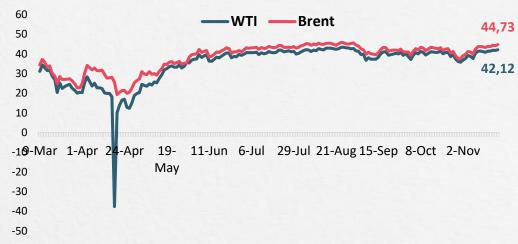


## IMPROVING ECONOMIC ACTIVITY CAN BE SEEN FROM VARIOUS ECONOMIC INDICATORS

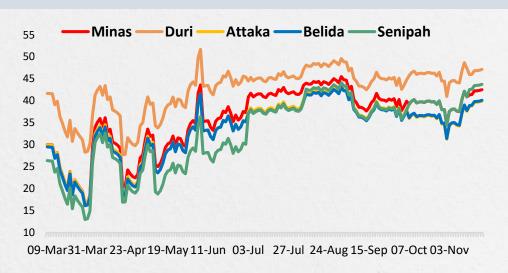
Increasing trends are happening in manufacture activities and oil prices



## Global Oil Price Movement (US\$ per barel)



#### Reference Price for ICP (US\$ per barel)



Source: Bloomberg & IHS Markit

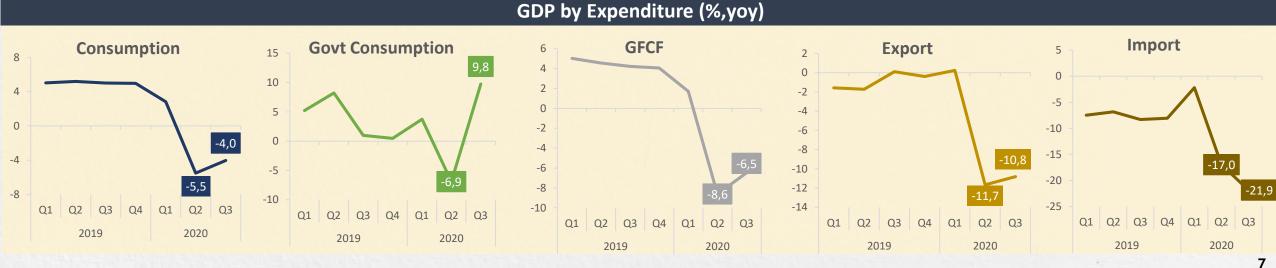


## Q3-2020 GROWTH: A TURNING POINT

Indonesia Economy Has Improved Supported by Strong Government Consumption









## AS MANDATED BY LAW 2/2020, GOVERNMENT IS GRANTED A FLEXIBLE FISCAL POLICY

As a Response for Handling of COVID-19 Pandemic & National Economic Recovery

#### PERPPU 1/2020 (31 March 2020) UU 2/2020 (18 May 2020)

- The legal basis for the government to flexibly adjust the fiscal policies, including budget and its deficit.
- Allowing the government to continually refocusing and reallocation budget without parliament approval process
- The state budget deficit has to be returned to a maximum of 3% in 2023

#### Perpres No. 54/2020

With extraordinary and very urgent conditions, the State Budget deficit policy exceeds the 3% limit, through the enactment of Perpu No.1 / 2020 (becoming Law No.2 / 2020). Prioritized on health and social security spending

#### Perpres No. 72/2020

Responding to the development needs of the Covid-19 pandemic handling and to maintain the economy and financial system stability, including running the National Economic Recovery Program (PEN)

Initial	Budget
UU No.	20/2019

#### Perpres No. 54/2020

#### Perpres No. 72/2020

Budget	Deficit
to GDP	

1.76%

5.07%

6.34%

**Budget Deficit** 

IDR307.2 tn (~USD 21.0)

IDR852.9 tn (~USD 58.2 bn)

IDR1,039.2 tn (~USD 70.9 bn)

2020

**Financing Need** 

IDR 741.8 tn (~USD 50.6 bn)

IDR 1,439.8 (~USD98.3 bn)

IDR 1,645.3 (~USD112.3 bn)

PERPU 1/2020 is emergency law issued by government to respond the COVID-19 outbreak

Source: Ministry of Finance Notes: USDIDR exchange rate of IDR14,653.



## **COMPREHENSIVE STIMULUS PROGRAM TO SAVE LIVES & ECONOMY**

## **Program Pemulihan Ekonomi Nasional**

Rp695,2 T (4.2% of GDP)

Realization (as of Nov 25) 61.1%



#### Rp97,90 T Realization 41.2%

## Rp233,69 T Realization 88.9%



## Rp65,97 T

Realization 54.9%

## Rp115,82 T Realization 85.3%



## Rp61,22 T

Realization 3.3%



#### Health

#### To address the pandemic by ensuring the quality of treatment and accelerating the containment effort

- Expenditure for Covid-19 Handling
- Incentives for Paramedic
- Death Compensation
- National Health Insurance Fee
- Covid-19 Task Force
- Tax Incentives in Health

# **Social Protection**

#### To protect the poor and the vulnerable as the most impacted group during pandemic:

- Conditional Cash Transfer Program
- Non Cash Food Assistance
- Social Assistance
- Pre-Working (unemployment benefit)
- Electricity Discount
- Cash Transfer through Village Fund

# Sectoral & Regional Gov't

# To empower sectoral and regional governments in responding COVID-19 pandemic

- Line Ministries labor Intensive Program
- Housing Incentives
- Tourism
- Regional Incentive Fund
- Physical Special Allocation Fund
- Regional Loan Facility

#### **SMEs**

# To maintain sustainability of MSME as critical part of economic recovery

- Interests Subsidy
- Fund Placement
- Guarantee Return
- Working Capital Guarantee (Stop Loss)
- Government-Borne Final Income Tax
- Investment Financing to Cooperatives

# **Corporate Financing**

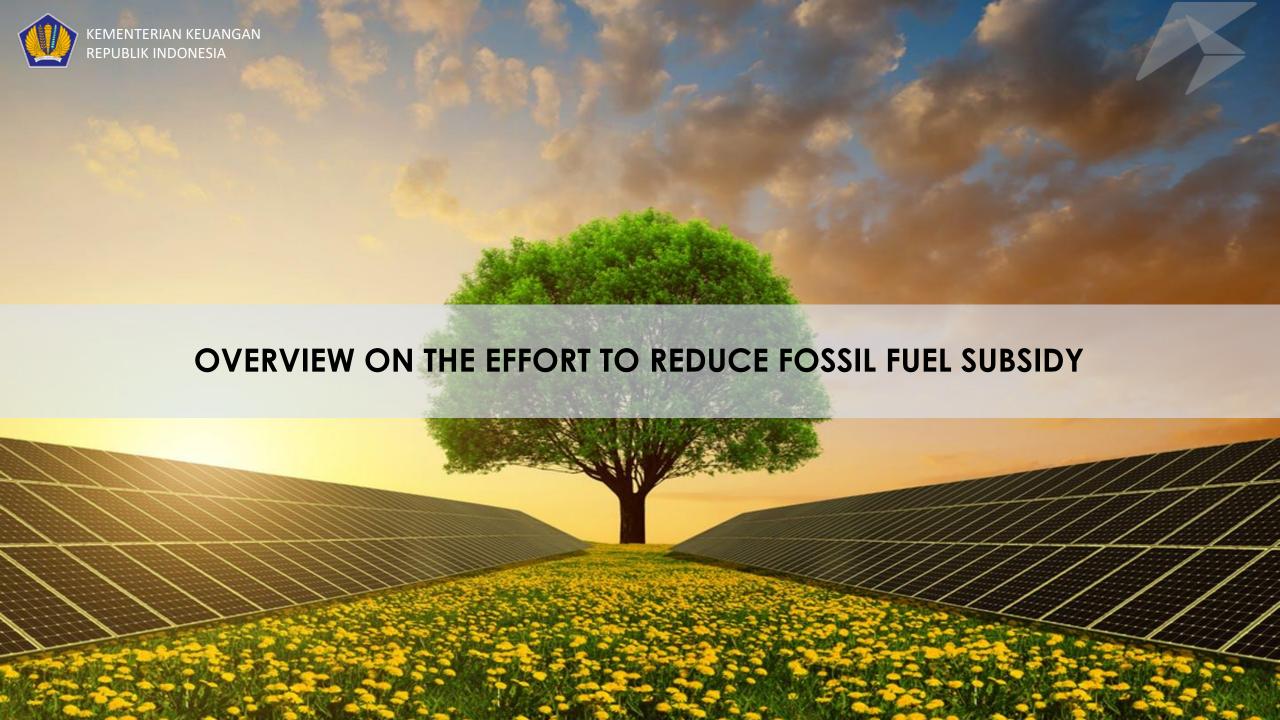
# To ensure the financing availability for economic recovery phase

- Labor Intensive-Fund Placement
- State Equity Participation
- Working Capital Investment Rp29.65T

# **Business Incentives**

# To provide cushion for impacted businesses through for example fiscal incentive

- Government-Borne Income Tax;
- Income TaxExemption on Import
- Tax Deduction VAT Return
- Corporate IT Rate Reduction

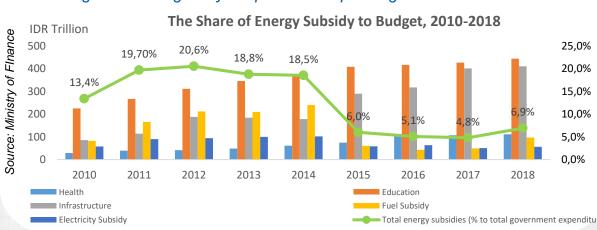




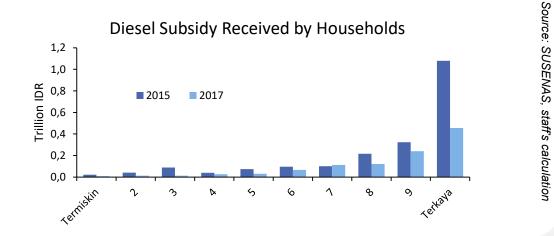
## **ENERGY SUBSIDY REFORM: RATIONALES BEHIND THE REFORM**



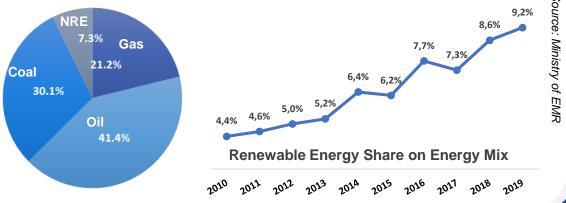
## **2. Limited Fiscal Space**, Energy subsidy has taken a big portion of the budget and taking away the productive spending



#### 3. Energy subsidy was poorly targeted

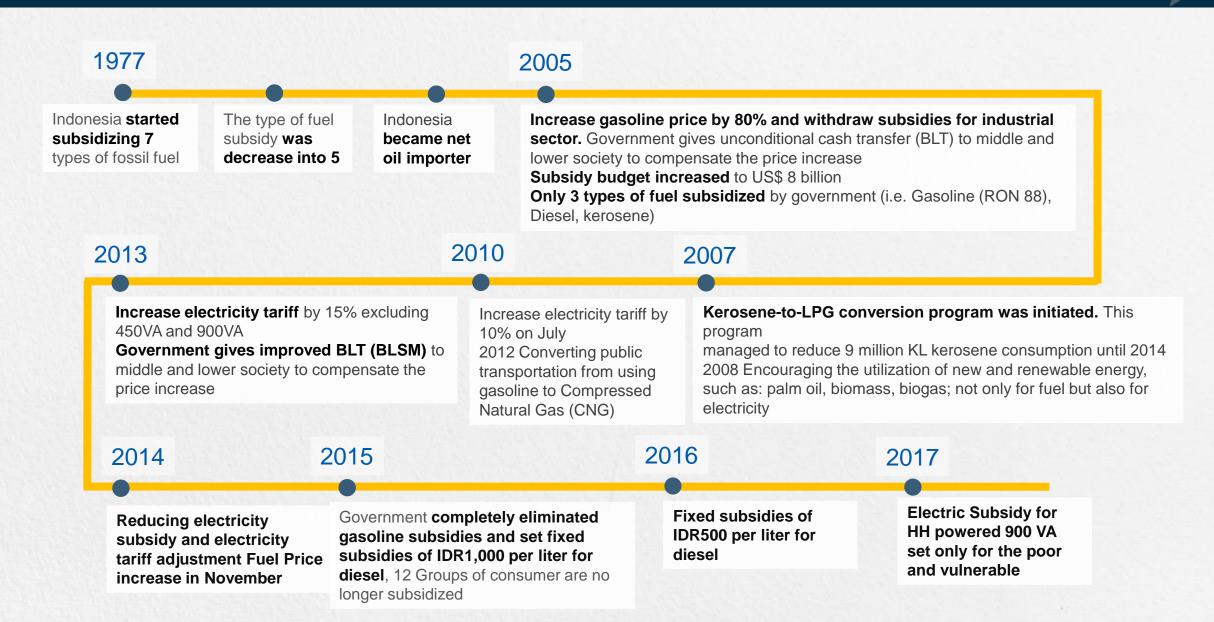


## 4. Energy subsidy becomes a disincentive for the development of renewable energy





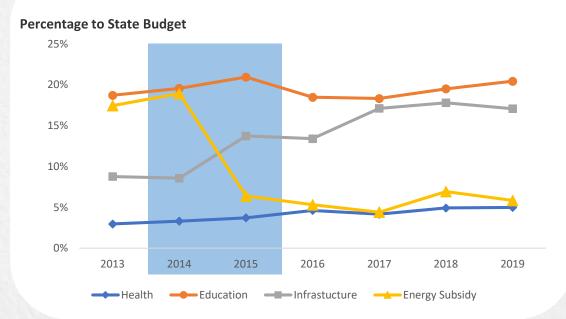
## HIGHLIGHTS ON INDONESIAN FOSSIL ENERGY SUBSIDY REFORM





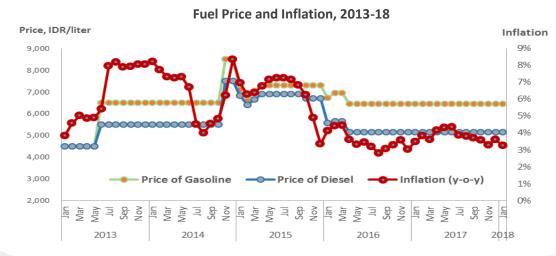
## **IMPACTS OF THE REFORM**

#### Fiscal impacts: more fiscal space for productive spending

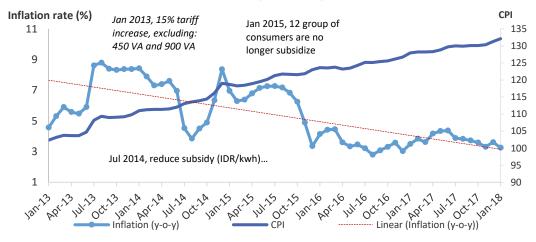


- Energy subsidy was mainly reallocated to infrastructure spending which significantly increased since 2015.
- The government continue the mandatory spending, which are 20% for Education (since 2009) and 5% for Health (since 2016).
- Fificient budget for subsidy expenditure would be beneficial for leveraging economic growth and alleviating poverty such as health, infrastructure, and social assistance.

## **Impacts on inflation:** Reforms may create a short-term inflation impact, the GoI maintain the expected inflation steady low



#### Inflation and Electricity Subsidy Policies, 2013-18







### INDONESIA ECONOMIC DEVELOPMENT



Indonesia wants to become a developed country, therefore needs to ensure sustainable economic growth and cope the global challenges, one of them is national energy sustainability

### **Vision On Indonesia 2045: Becomes A Developed Country**



#### Infrastructure

Quality Infrastructure to support mobility & boost national development



#### **Government Bureaucracy**

Public service quality & business process improvement



#### **Human Resources Quality**

HR improvement on R&D, education, health, & social safety net system.



#### **Spatial Planning**

Good governance in spatial planning management with integrated system



#### **Technology**

Technology & innovation in supporting industry development



#### **Economic & Finance Resources**

Sound State Budget as a key modality for Indonesia 2045

Indonesia's economic growth is one of the most stable among other countries, supported with credible fiscal management & structural reforms. In ensuring sustainable growth and cope with the global challenges, the Government of Indonesia has strong commitment facing global issues, such as discourse on FED rates issue, trade wars, fluctuations in commodity prices, climate change, including to ensure our national energy sustainability.



# ENERGY TRANSITION IS NEEDED TO MAINTAIN ENERGY SUSTAINABILITY AND LOWERING CO2 EMISSION, MAINLY BY PROMOTING RENEWABLE ENERGY



## Indonesia commits to support CO2 reduction (Paris Agreement):

- → 29% in 2030 by its own effort
- → 41% in 2030 by International support

### **EMISSION REDUCTION TARGET (NDC)**







Indonesia Energy Transition is captured on the RUEN (National Energy Framework)

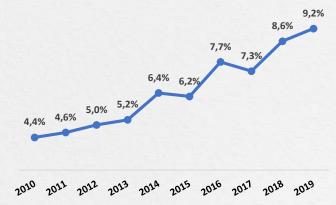
Renewables target is set at 23% in 2025, & 31% in 2050 to the national energy mix (PP No. 79/2014 on RUEN).

Emission reduction through renewable power plants is equal to 48.9 GW and 156.6 Mton  $CO_2e$ , required around IDR 1700 Trillion in funding (MEMR, 2018)

## Indonesia has abundant resources on RE



The share of RE in national energy mix increasing, but remain left behind

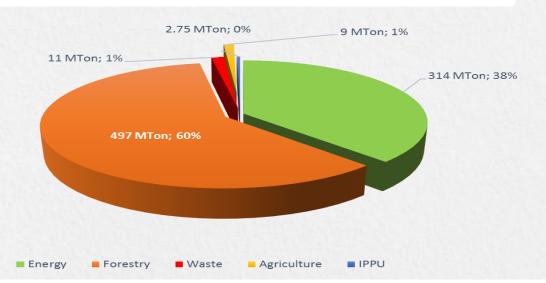




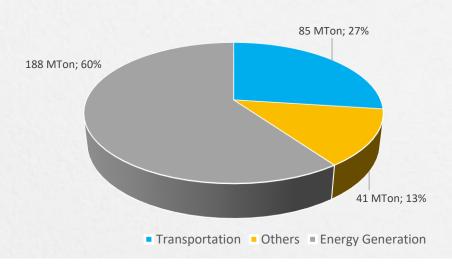
## THE IMPORTANCE OF RENEWABLE ENERGY TO ACHIEVE EMISSION REDUCTION TARGET

Energy is the 2<sup>nd</sup> largest contributor sector to achieve Indonesia's commitment on emission reduction by 2030.

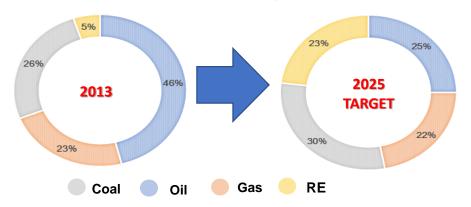
#### **Indonesia's Commitment on Emission Reduction by 2030**



#### **Emission Reduction Target in Energy Sector**



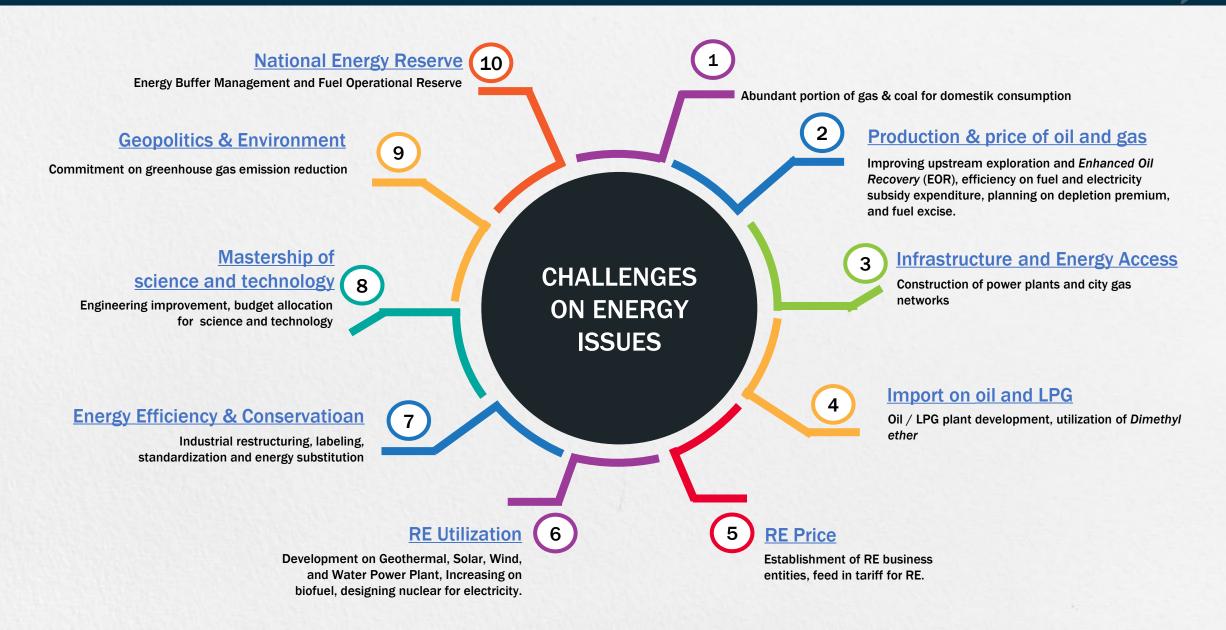
#### **Promoting The Development Of New And Renewable Energy**



- Energy Security
- Fiscal Sustainability
- Climate Actions on Emission Reduction
- Sustainable Development Goals / SDGs
- Low Carbon Development (RPJMN 2020-2024)



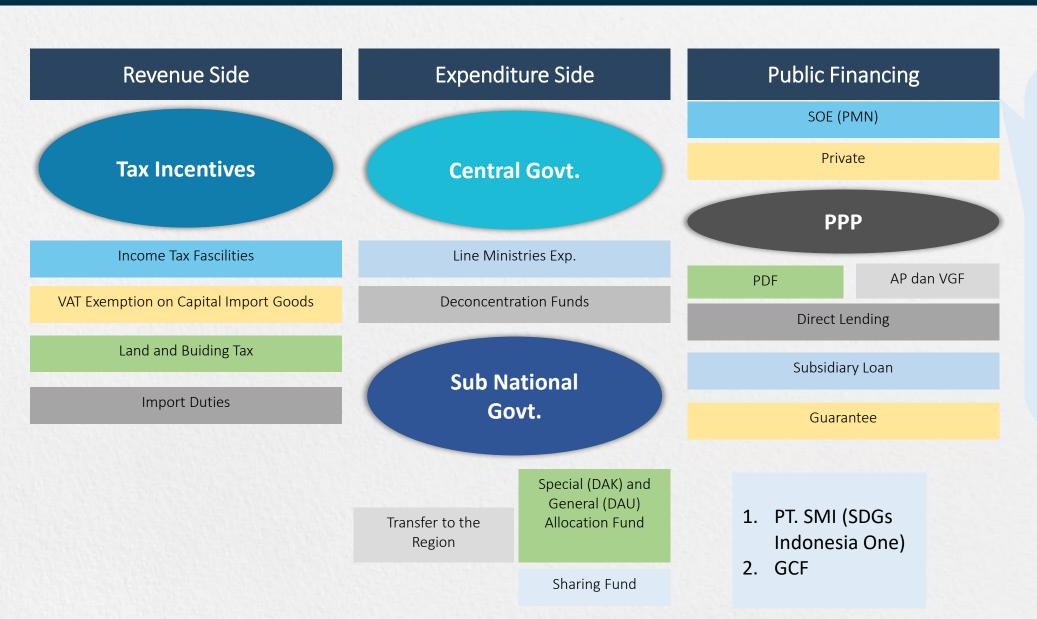
## **CHALLENGES ON ENERGY ISSUES**







## FISCAL POLICY ON RENEWABLE ENERGY



Limitation Fiscal Space pushes the Govt. to create another source of financing: **BLENDED** / **CREATIVE FINANCING:** 

- Issuance Green Sukuk
- Geothermal Fund (PISP: GREM, GEUDP)
- Environment Pooling Fund (BPDLH)
- PT SMI (SDGs Indonesia One)
- GCF



## **INNOVATIVE FINANCING INSTRUMENT**

# **GREEN SUKUK**

Green Sukuk is a financing instrument for government programs related to climate change actions, including supporting the Sustainable Development Goals (SDGs).





Resilience to the impacts of climate change is related to areas at risk of disaster





MEDIUM TO DARK GREEN



Geographical

distribution

Distribution

investor type

Distribution

based on

Indonesia won 8 international awards from the issuance of **Green Sukuk** 

Issuance of Global Green Sukuk:

- 2018 (USD 1,25 billion)
- 2019 (USD 750 million)

Domestic Retail Green Sukuk (November 01, 2019)

**DARK GREEN** 



Sustainable Agriculture



**Transportation** 



WTE and Waste Management

Bank

Pension Fund/...

SWF/Central...I Asset/Fund...

Indonesia Europe US Asia 25% Islamic

Global Green Sukuk (5 Years ): First Issuance

32%

MEDIUM TO DARK GREEN



Green technology for electricity generation



Sustainable management of natural resources



Green infrastructure

LIGHT GREEN

Green

Investor

Non-Green 71%

Green Investor 29%

21

LIGHT TO MEDIUM GREEN



## **BLENDED FINANCE ON GEOTHERMAL (PISP)**

#### **Geothermal Fund (Pembiayaan Infrastruktur Sektor Panas Bumi / PISP)**

In 2017 Government provides Geothermal Fund (PISP) to support exploration projects through Government & SOEs drilling scheme.

Background	The needs of Government support on exploration in developing geothermal.
Objective	Financing on exploration, exploitation and Geothermal Power Generation Projects
Fund Manager	PT Sarana Multi Infrastruktur
Fund	IDR 3,1 Triliun
Exploration Scheme	<ul><li>Government Drilling- usulan Menteri ESDM</li><li>SOE Drilling- usulan BUMN</li></ul>
Exploration Risk Sharing	<ul> <li>Government Drilling – 100 persen porsi APBN</li> <li>SOE Drilling – 50 persen porsi APBN</li> </ul>
Governance	<ul> <li>Assignment to PT SMI on exploration support;</li> <li>Monitoring &amp; Supervision under Joint Committee of MoF and MoEMR.</li> </ul>

### **PISP Progress**

Exploration	Cofinancing facility for Government Drilling Scheme between PISP and CTF at USD 49 million
Exploitation	Financing on loan amounted USD 20 million for PT. GDE <i>small scale</i> Dieng project of 10 MW.

### **Blended Finance Scheme of PISP**

GEUDP (Geothermal Energy Upstream Development Program) manages PISP combined with other financing sources to provide government drilling projects with pilot project in Wae Sano, Flores, NTT.

- WB's grant facility of CTF (Clean Technology Fund) GEF (Global Environment Fund) at USD 55,25 million
- New Zealand's grant at NZD 2,13 million.





## **ENVIRONMENT POOLING FUND** (BADAN PENGELOLA DANA LINGKUNGAN HIDUP - BPDLH)



**UU 32/2009: Environmental Protection and** Management

PP 46/2017 Environmental Economic Instruments

Perpres 77/2018 Management of the Environmental Fund

PMK 137/2019 tentang Organization and Work **Procedure Public Service Agency of Environment Fund** 

KMK 779/2019 tentang Public Service Agency of **Environment Fund as a Public Service Agency** 

Mandating the establishment of an Environmental Economic Instrument as an instrument to prevent environmental pollution and / or damage

One of them regulates the Management of the Environmental Fund (PDLH) with the financial management of the Public Service Agency (BLU)

Regulates the formation of non-echelon organizational units to manage environmental funds determined by the PMK

Documents compiled based on the draft governance and business strategic plan of the Public Service Agency for Environmental Fund Management

Establishment of BDPLH as a Government Agency that implements financial management patterns for Public Service Agencies

The agency is aimed to mobilize public and private funds to effectively support environment protection programs including climate change actions.

#### **Ministry / Institutional related:**

























**OPERATIONAL BPDLH:** 

**Fund Distribution** 

- ☐ Grant
- ☐ Loan
- ☐ Subsidy
- □ Carbon Trading
- □ Others



### **SDG INDONESIA ONE**



A blended finance platform managed by PT. SMI to facilitate the involvement of philanthropist, donor, climate fund, green investors, MDBs, international agencies, commercial banks, sovereign wealth fund, institutional investors.

## **Summary Underlying Projects\***





SDG Indonesia One will manage & leverage USD 2.34 B of fund\*, to facilitate 93 projects amount USD 18.2 B.

\* commitments & pledges from 26 development partners (as of Oct 05, 2018)



\* indicative

- ➤ Innovative financing instrument to support the infrastructure development in achieving 16 of 17 SDGs Targets.
- > Product Type: Development Facilities, De-risking Facilities, Financing Facilities, & Equity Fund.
- > Priority sectors: Health, Education, Renewable Energy and Urban Infrastructure (transportation, water & waste management)\*
- \*potentially can be expanded



## Green Climate Fund

GCF is an operating entity of *United Nations Framework Convention on Climate Change* (UNFCCC) financial mechanism.



## **Projects/Programs Approved by the GCF**

Readiness Facility

Proposal

Funding

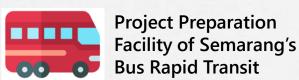


GCF Readiness
Program to strengthen
NDA and AE
institutional capacity



Grant: US\$ 850,000



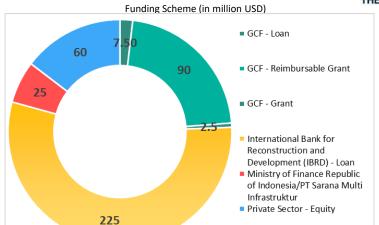




Grant: US\$ 788,000

Geothermal Resource Risk Mitigation Facility (GREM)





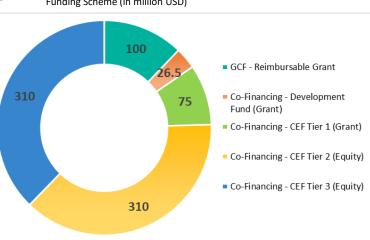
GCF Funding Co-financing

: USD 100 mil

4

Climate Investor One (CIO)

Funding Scheme (in million USD)



Pendanaan GCF Co-financing

: USD 100 mil : USD 721.5 mil Entrepreneurial Development Bank



# FISCAL POLICY ON PROMOTING ELECTRIC VEHICLES INDUSTRIES (PRESIDENTIAL DECREE NO 55/2019)





- I. Tax Incentives
  - a. Luxury VAT (PPnBM)
  - b. Income Tax
    - i. Tax Holiday
    - ii. Tax Allowance
    - iii. Super deduction
  - c. Import duties
    - i. On capital goods
    - ii. Import duties paid by the govt (BM DTP)



Subsidy on charging cost in charging station (SPKLU)



Financing Support on SPKLU infrastructure





## **ENERGY SUBSIDY TRANSFORMATION**

Energy Subsidy Transformation is a key to improve the fiscal capacity in order provide funding for RE Development

# COMMODITY BASED SUBSIDY



People Targeted Energy Subsidy

- Prepare Infrastucture and Targeted Beneficiery Data based on DTKS
- Gradually implementing energy price adjustment



Energy
Subsidy
Transformation
from
commodity to
people

- Transforming LPG 3Kg Subsidy into Social Assistance
- Transforming Household Electricity Subsidy to Social Assistance
- Intergratied with Kartu sembako

2022-2024

### **PEOPLE BASED SUBSIDY**

 Agreement between Government and DPR to carefully transform energy subsidy and consider the right time based on data and infrastructure availability

#### Challenges:

 DTKS data by name by address is only available for household, but not for micro enterprise, small farmer and fisherman

#### • Progress:

- LPG → TNP2K has piloting distribution mechanism using fintech
- Listrik PLN has matched customer data with DTKS

2021





### THE WAY FORWARDS

Developing RE is crucial for Indonesia energy security and sustainability

Optimizing fiscal facilities to reduce the cost of investment on RE

Expanding the coverage of existing financing facilities such as **BPDLH and PISP (geothermal fund)**to support all renewable energy development

Exploring other instruments to develop RE such as carbon pricing

Continuing the reform on fossil based energy subsidy

Reallocating the fossil based energy subsidy into renewable energy subsidy

Strengthen synergy among programs (policies) and stakeholders

