



**Indonesian Third Biennial Update Report  
FASILITATIVE SHARING OF VIEWS  
(FSV14-Part II)**

**SBI 58 – BONN, GERMANY  
6 June 2023**

# OUTLINE

1. NATIONAL CIRCUMSTANCES
2. GHG INVENTORY
3. MITIGATION ACTION AND EFFECTS
4. DOMESTIC OF MRV
5. FINANCE, TECHNOLOGY AND CB NEEDS AND SUPPORT RECEIVED
6. LESSONS LEARNED FROM ICA AND CHALLENGES AHEAD



# 1. NATIONAL CIRCUMSTANCES



## Population

270,203.9 million (2020)

## Economy

GDP growth from IDR 14,838.3 trillion (2017) to 15,833.9 trillion (2019)

## Area

1.92 million Km<sup>2</sup>

## Poverty

31.02 million (2010) to 26.42 million in March 2020

## HDI

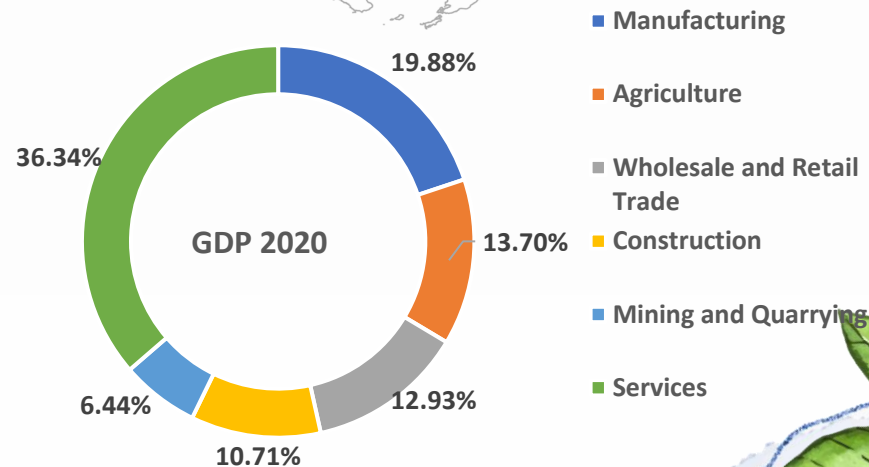
69.55 (2015) to 71.94 (2020)

## Energy

146 million TOE (2000) to 237 million TOE (2019) → Average Rate 2.5%

## Forestry

The total Indonesia forest land use areas in 2019 was 120,285.7 thousand hectares



# Institutional Arrangement for the Development of BUR

DGCC developed coordination with other Ministries/Agencies for the preparation of the BUR3

The mitigation action is prepared by the relevant ministries and coordinated by the MoEF,

## Working Group I: National Circumstances and Institutional Arrangement

- Coordinator: Director of GHG Inventory and MRV, MoEF

## Working Group II: National GHG Inventories

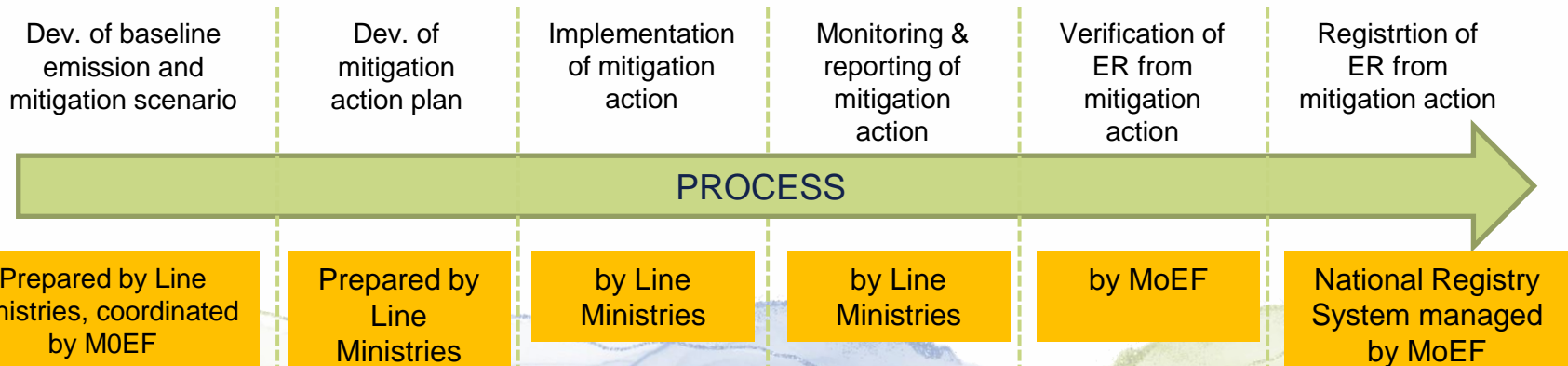
- Coordinator: Director of GHG Inventory and MRV, MoEF

## Working Group III: Mitigation Actions and Their Effects

- Coordinator: Director of Mitigation of Climate Change, MoEF

## Working Group IV: Financial, Technology, Capacity Needs and Support Received for Climate Change Activities

- Coordinator: Director of Sectoral and Regional Resources Mobilization, MoEF

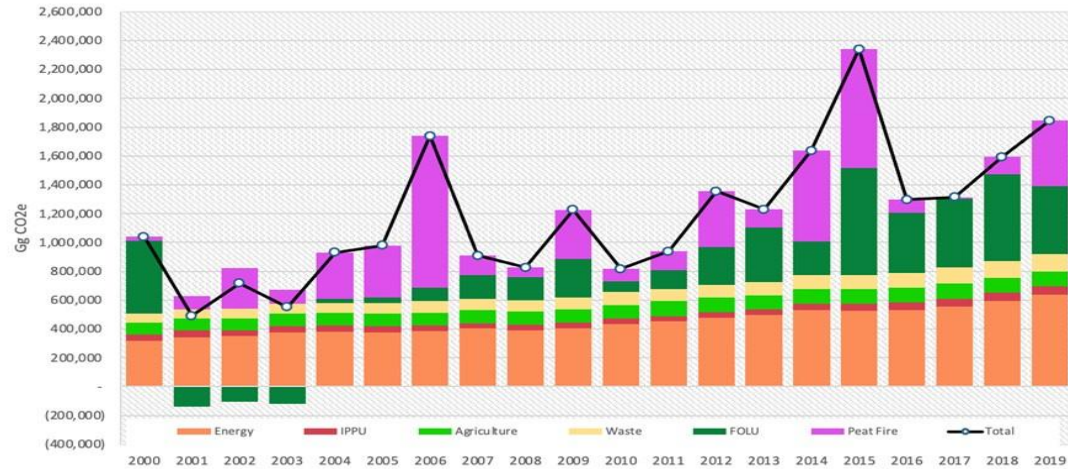


# 2. GHG INVENTORY

- The 2019 National GHG Emission/sinks: has reached 1,845,067 Gg CO<sub>2</sub>e
- Primary contributors: FOLU and peat fire.
- In the absence of FOLU and peat fire, energy sector was the main contributor (69.16%)
- Over the 2000 - 2019 period, national GHG emissions increased by an average rate of 10.52% per year

GWP values: IPCC AR2

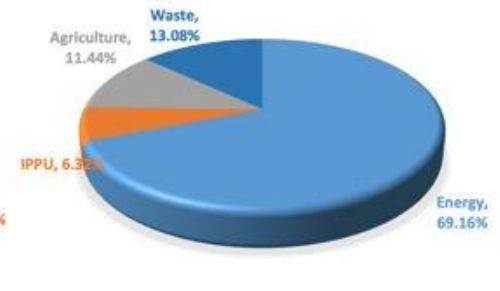
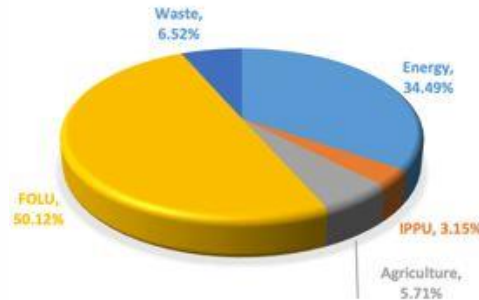
National GHG Emissions Trend (incl. peat fire) in 2000 - 2019



National GHG Emissions by Sector in 2019

WITH AFOLU (INCL. PEAT FIRE)

WITHOUT FOLU (INCL. PEAT FIRE)



# 3. MITIGATION ACTIONS AND EFFECTS

## National Mitigation Programmes

### Energy

1. Energy efficiency in final demand
2. Clean coal technology in power
3. Renewable energy in power
4. Fuel switching
5. Post mining reclamation

### Agriculture

1. The use of low-emission crops
2. Implementation of water efficient system in paddy field
3. Manure management for biogas
4. Feed supplement for cattle

### IPPU

1. Reduction of clinker to cement ratio
2. Improvement of ammonia plant technology
3. Other actions in steel industry and aluminum smelter

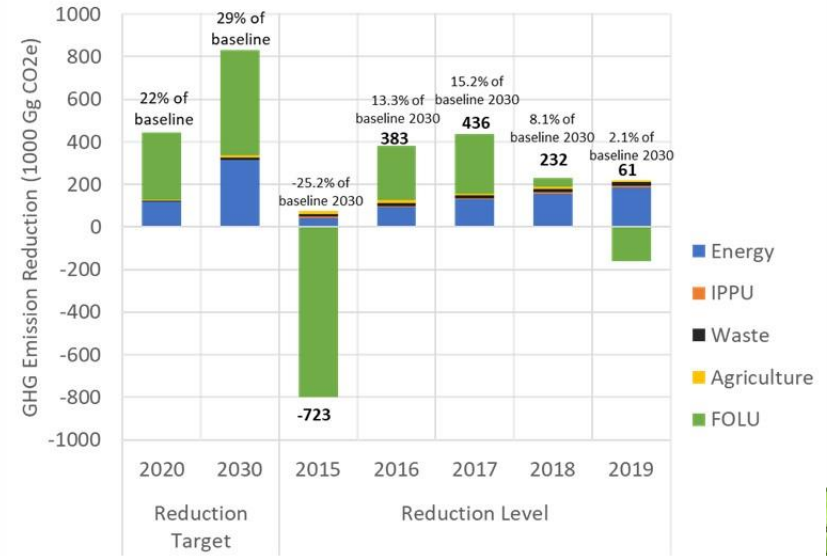
### FOLU

1. Reduction of deforestation in mineral and peatland
2. Reduction of forest degradation in mineral and peatland
3. Sustainable forest management to restore production forest
4. Development of community forest & village forest
5. Establishment of timber plantation and private forest
6. Land rehabilitation to enhance carbon sink
7. Restoring degraded peatland
8. Improved peatland water management

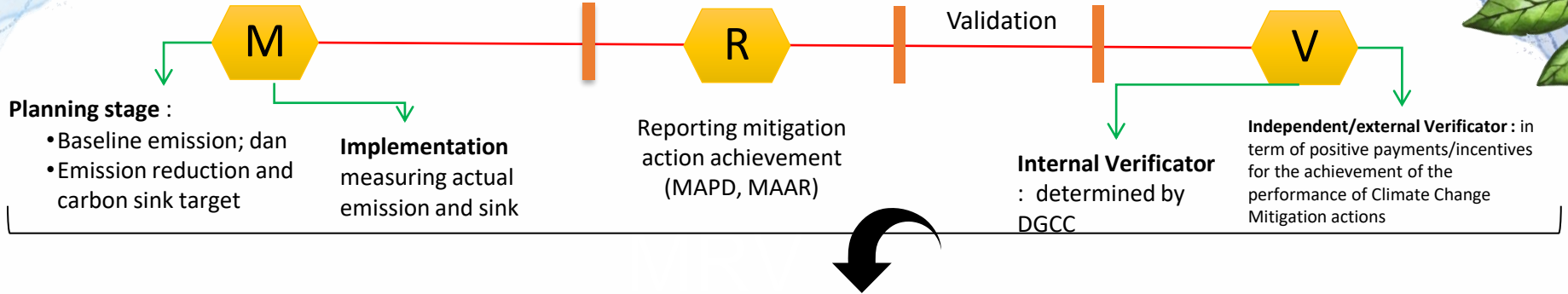
### Waste

1. Enhanced LFG recovery
2. Enhanced composting and 3R
3. Enhanced RDF utilization
4. Management of domestic WWT
5. Management of industrial WWT

## Progress of National Mitigations



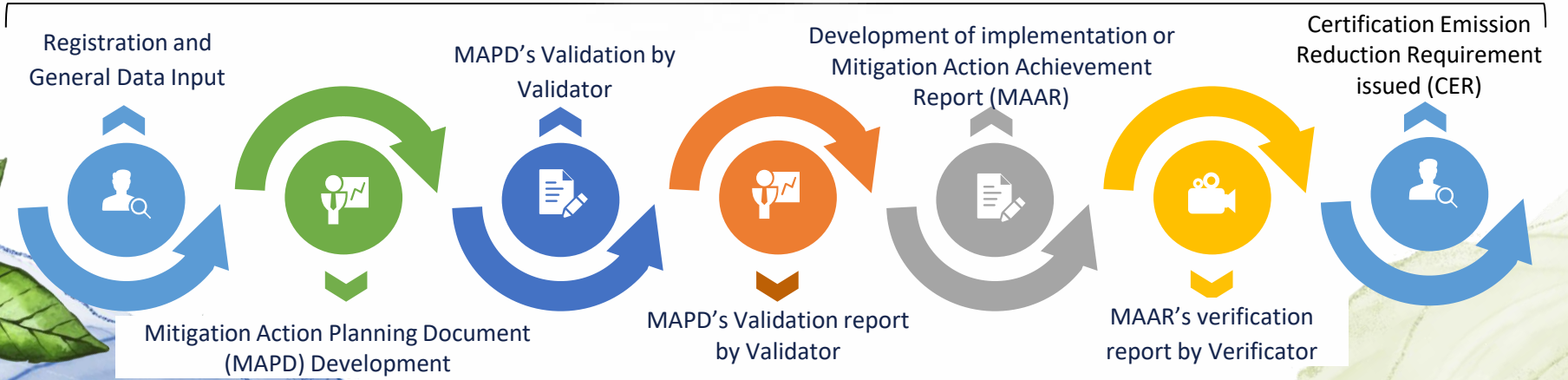
# 4. DOMESTIC OF MRV



## PLATFORM DATABASE



## National Registry System (NRS)

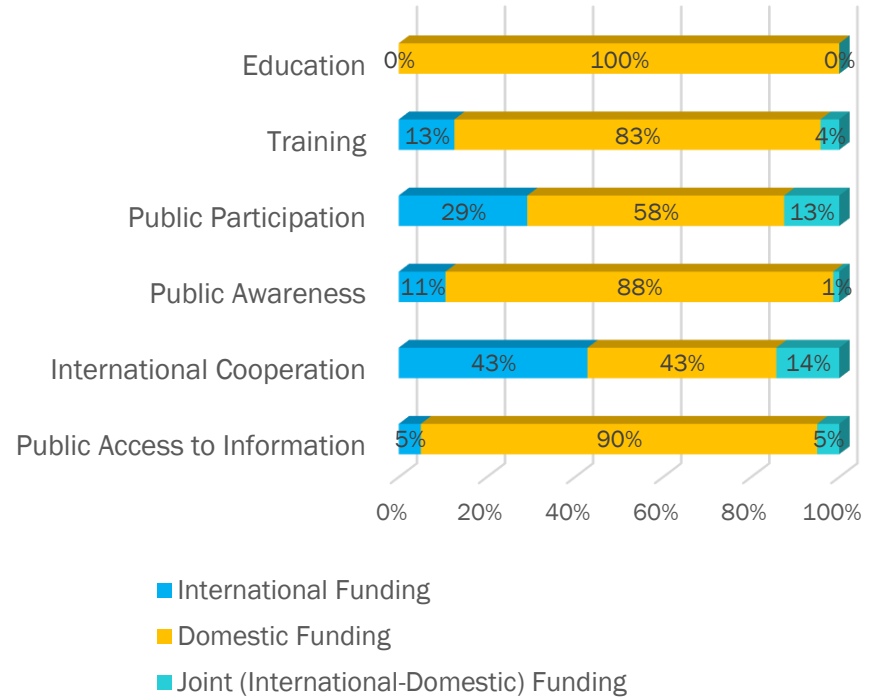


## 5. FINANCE AND CB NEEDS AND SUPPORT RECEIVED FOR MITIGATION

### Estimated Financial Needs & Received

Sector	Financial Needs (Billion USD)
Forest & Land Use	21.68
Energy & Transport.	245.99
Agriculture	00.50
IPPU	00.07
Waste	13.00
<b>Total Needs</b>	<b>281.24</b>
<b>Total received (2017-2019)</b>	<b>16.15</b>

### Capacity Building





## 6. LESSON LEARNED FROM ICA, CHALLENGE AHEAD, AND ETF TRANSITION

### **GHG Inventory:**

- Capacity to identify the sources of uncertainty of AD for all sectors;
- Improve the completeness of the GHG inventory, and to implement QA/QC of reports

### **Mitigation:**

- Technical knowledge for linking mitigation actions with GHG inventories;
- Capacity of sectoral ministries, local governments and the private sector to incorporate climate actions into long-term plans and programmes by setting quantitative mitigation goals;

### **Cross-cutting:**

Institutional system that links processes related to mitigation sectors with the GHG inventory in order to collect data for and coordinate BUR preparation and submission.

### **Needs and support**

- National capacity to conduct nationally determined technology needs assessments for key source sectors;
- Capacity to develop a system for tracking financial support received by different sectors.

# WRITTEN QUESTIONS THROUGH FSV PORTAL

A total of 17 questions were received from: USA (3), UK (1), Switzerland (2), New Zealand (3), Japan (5), and European Union (3)

Topics covered:

## GHG Inventory:

- Trends of GHG Emissions in Oil and Gas Industry Subsector ;
- Livestock Sector Emission Factors;
- Activity Data for Agriculture Sector
- Disaggregating emissions from international aviation and maritime transport
- Indonesia's manufacturing industries data
- Greenhouse gas emissions from the commercial subsector

## Mitigation actions and their effects

- Strengthen of management capacity of Forest Management Unit
- Progress indicators for mitigation actions in the energy, IPPU and waste sectors;
- Indonesia's renewable energy target progress
- Low-emission varieties of rice
- Estimation of emission reductions by mitigation measures
- Energy mix in 2030
- Blue carbon in Indonesia
- the mandatory
- utilization of biofuels in certain power plants, industries and in the transport sector

## Information on domestic MRV

National Registry System for Climate Change

## Constraints and gaps, and related financial, technical and CB needs

Indonesia's barriers to technology measuring the AFOLU sector

# Thank You

[signsmart.menlhk.go.id/v2.1](https://signsmart.menlhk.go.id/v2.1)  
[srnppi.menlhk.go.id](https://srnppi.menlhk.go.id)



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