

01 INTRODUCTION

COMPILATION OF AIR EMISSION ACCOUNTS

THE USE OF AIR EMISSION ACCOUNTS FOR POLICY AND ANALYSIS





ABOUT BPS-STATISTICS INDONESIA

(President Regulation Number 86 of 2007)



BPS-Statistics Indonesia is a **Non-Ministerial Government Agency** directly responsible to the President (Article 1)







BPS in particular has an important function as an institution that **organizes statistical activities** such as censuses or national surveys





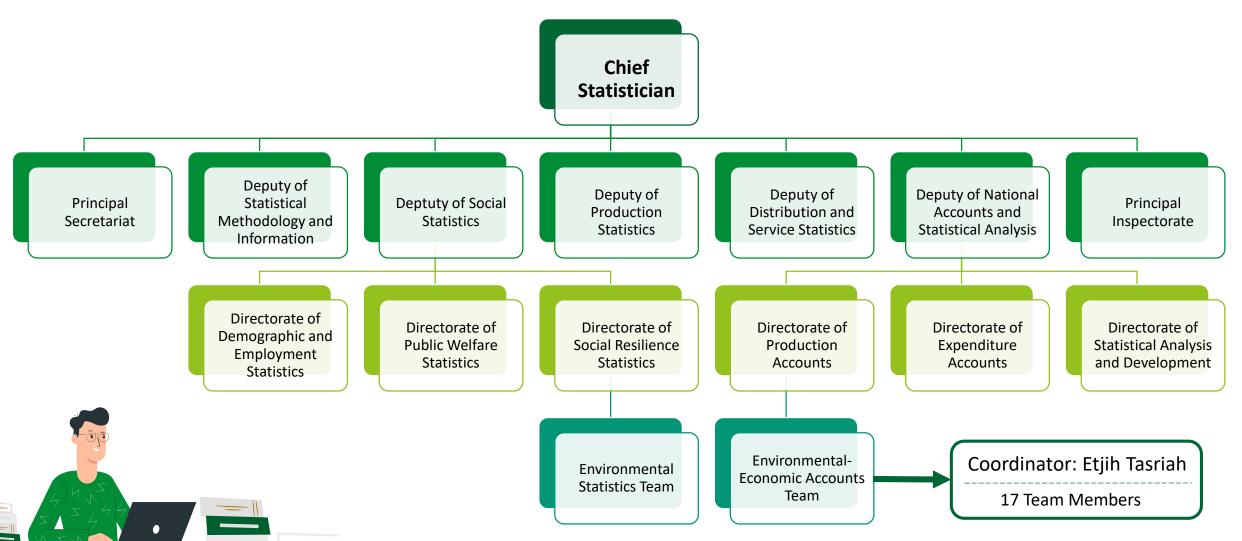


As a non-ministerial institution, the position of BPS in relation to other government agencies or ministries is **independent**. This condition allows BPS to act as a **check and control** for all statistical figures of government agencies.



STRUCTURE OF ORGANIZATION IN BPS





ACTIVITIES OF BPS ENVIRONMENTAL-ECONOMIC ACCOUNTS TEAM





BPS regularly publishes Indonesia System of Integrated Environmental-Economic Accounting (SISNERLING) comprising asset accounts for land, timber, mineral and energy resources.



In addition to SISNERLING, BPS also publishes physical energy flow accounts and GHG emission accounts.

Sisnerling Publication







Flow Accounts Publication







Inter-Agency Coordination Mechanism



- Government Regulation Number 46 of 2017 concerning Environmental Economic Instrument
- BPS Regulation Number 3 of 2023 concerning Compilation Guidelines of Natural Capital and Environmental Accounts

2023



Topics of In-depth Study SEEA

2016-2017



EPEA/EGSS

2018



SEEA for Agriculture, Forestry, and Fishery 2019-2020



Sustainable Tourism

2021-2022



Ocean Accounts



Biodiversity Accounts



Climate Change



2024

Green Economy



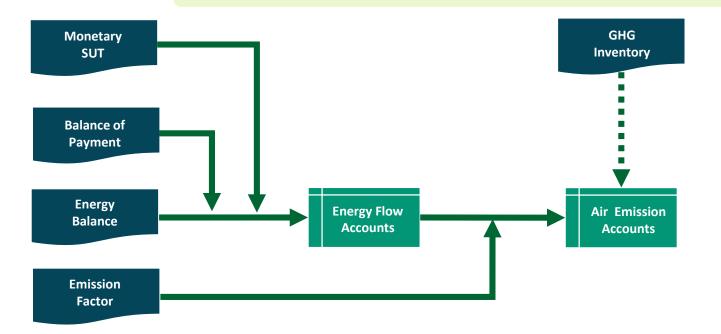


COMPILATION OF SEEA FLOW ACCOUNTS IN INDONESIA

- BPS has compiled SEEA flow accounts since 2017 after receiving technical assistance from UNSD
- Currently, the annual publication of Indonesia flow accounts consists of:
 - Physical Energy Flow Accounts
 - Air Emission Accounts for Greenhouse Gases (GHG)



The Compilation Process of Indonesia Flow Accounts



Energy Flow Accounts



- Renewable energy share in the total final energy consumption
- Energy intensity measured in terms of primary energy and GDP

Air Emission Accounts



CO₂ emission per unit value added



Target 9.4

By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resourceuse efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities

Energy-Related CO₂ Emission by Industry and Household (million tonnes), 2016-2020





Energy-Related CO₂ Emission per Unit Value Added by Industry (tonnes per billion IDR), 2020

TOTAL INDUSTRIES: 51,83

Agriculture, Forestry, and Fishing



0,94

Electricity and Gas Supply



2.752,77

Mining and Quarrying



5,88

Transportation and Storage



144,34

Manufacturing

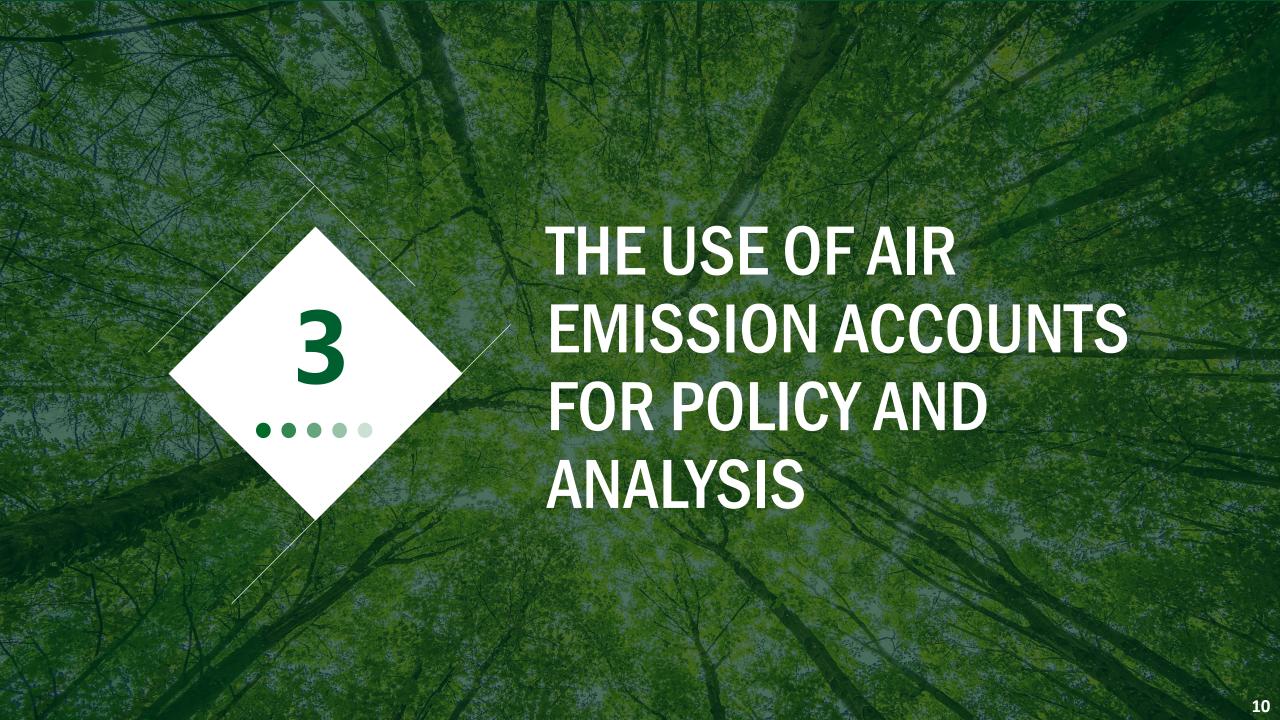


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Other **Industries**

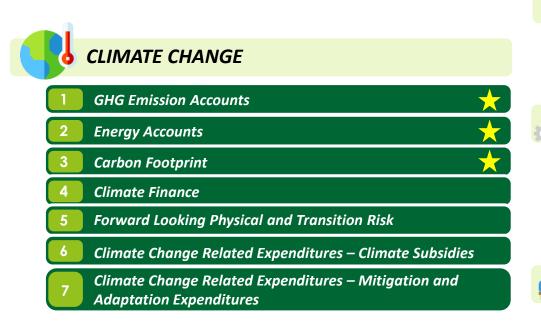


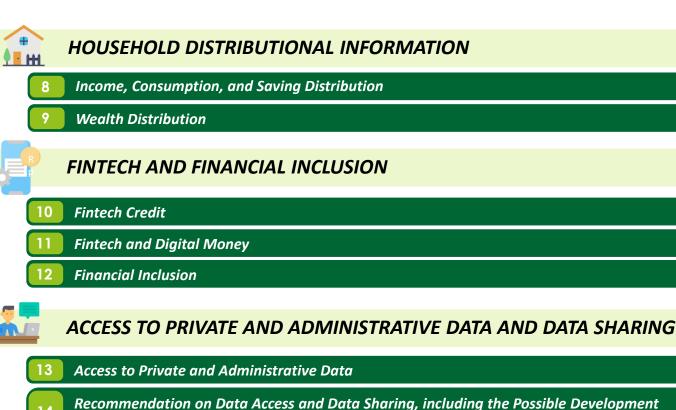
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DATA PROVISION IN G20 DATA GAPS INITIATIVE (DGI) 3 WORK PLAN









GHG Emission Accounts is the first recommendation in DGI-3 Work Plan

of an International Microdata Standard



THE USE OF AIR EMISSION ACCOUNTS FOR POLICY AND ANALYSIS





Environmentally-Extended Input-Output Table

✓ The combination air emission accounts with input-output table is used by academics to build analytical tools to support the implementation of Green Economy in Indonesia





Low Carbon Development Plan

Decrease in

GHG emission

compared to baseline

27,3%

Decrease in GHG emission intensity compared to baseline

31,6%

Decrease in GHG emission compared to baseline by sector



Energy 13,2%



Land 58,3%



Waste 9.4%



IPPU 2,9%



Coastal and marine 7,3%



LESSONS LEARNED AND THE WAY FORWARD

Improve the scope of air emission accounts by further coordination with related ministries who produce the source data

Create an institutional regulation on the compilation methodology of environmental-economic accounts agreed by related government institutions

Build an integrated data system to facilitate the data exchange between NSO and other stakeholders







Thank You! www.bps.go.id