Global data collection for physical energy flow accounts (PEFA) and air emission accounts (AEA)

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SEEA

Introduction

- Development of global SEEA databases is a priority for the UN Committee of Experts on Environmental-Economic Accounting (UNCEEA)

- Physical energy flow accounts (PEFA) and air emission accounts (AEA) identified as priority areas for global data collection, given their broad policy relevance, including for the Sustainable Development Goals (SDGs)

- PEFA is the most commonly compiled SEEA account, followed directly by AEA

SEEA

Introduction, continued

- Global databases = national data where it exists, country-approved estimates where it does not

- Current focus on collecting data from countries which already have national PEFA/AEA accounts but do not yet report data to an international organization

- Global template can also provide guidance for countries which will compile PEFA or AEA in the future

SEEA

Introduction, continued

- Development of global PEFA and AEA questionnaires began late 2021

    - Joint exercise between UNSD and OECD, in collaboration with the wider UNCEEA Working Group on Global Databases

    - Eurostat questionnaire as starting point

- Country testing during Spring/Summer 2022 (Australia, Canada, Colombia, Costa Rica, Indonesia, Kenya, Mexico, New Zealand—thank you!)

- Revised questionnaire sent to SEEA Central Framework Technical Committee and broader UNCEEA for adoption in Fall/Winter 2022

- UNSD launching data collection late last month

- Concurrent work on building a dissemination platform for global datasets of priority accounts on seea.un.org

SEEA

Use of templates

- Three templates in one workbook facilitates reporting by countries with differing levels of data availability

- **Detailed**: 64 ISIC categories (first and/or second-digit level of ISIC) and household activities disaggregated

- **Medium**: 21 ISIC categories (first-digit level)

- **Aggregate**: 5 ISIC categories (first-digit level), plus "All other industries"

- Please report the most detailed template for which data is available!

- Same natural energy input, product and residual classes are used across templates

SEEA

Energy questionnaire structure

- Questionnaire fully compliant and mapped to the SEEA DSD

- **Table A**: Supply

- **Table B**: Use

  - Table B.1: Transformation use

  - Table B.2: End use

- Table D: Indicators (automatically calculated!)

- Table E: Bridge table for residence to territory principle

SEEA

Energy questionnaire functionalities

- Data entry validation

  - All cells are filled with either a number or a colon ":", for not available

  - NB: please distinguish between "not available" and zero values

- Built-in checking tool focuses on internal validity

  - 1) Parent-child relationship for ISIC categories

  - 2) Sum of individual natural resources, products and residuals add up to the totals

  - 3) Supply and use identity (column and row)

Timeline

- February

  - Sent out questionnaires (also available https://seea.un.org/Data/Global%20data%20collection –make sure macros are enabled!)

- April

  - Questionnaire deadline of **14 April** (both AEA and PEFA)

- May-August

  - Validation

- September

  - Release

SEEA

THANK YOU

seea@un.org // https://seea.un.org/