Energy accounts from international databases

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Environmental accounts are built using good statistics, both environmental and economic statistics.
Without good statistics, accounts can not be developed

Environmental Accounts

Environmental statistics

Economic statistics
Different compilation approaches for energy accounts (common databank)

Energy Balances

Energy Accounts

Basic energy statistics
Other statistics
National accounts
Different compilation approaches for energy accounts (start energy balances)
Different compilation approaches for energy accounts (start global datasets)

International reporting

Energy Balances

Energy Accounts

Basic energy statistics
Other statistics
National accounts

Other data
Looking into use of global datasets

- International reporting “global data”
- Energy Balances
- Energy Accounts
- Basic energy statistics
- Other statistics
- National accounts
- Other data

What data can directly be used?
What national adjustments are needed
Why use global datasets as a starting point for the compilation of energy accounts?

• Primary focus on countries at a early stage in implementing energy accounts.

• Implementation challenges:
  - Data spread around in many institutions – no coordination,
  - conflicting figures for the same thing,
  - no data sharing

• Global datasets: We have the same starting point

• Reuse what we have - no need of starting from scratch.
Several relevant «global datasets»

*Examples* of international *reporting* of statistics/accounts that contain information about energy flows:

- Energy balances → IEA, UNSD
- Emissions to air → UNFCCC
- Trade statistics → OECD, WTO, IMF, UN
- National accounts → OECD, UN, IMF
- Private organizations

- All countries are not included
- Not always the NSIs that report the data
- Global datasets not always similar as what is published nationally
- Accessibility of data??
Using IEA energy balances as a starting point for the compilation of energy accounts (physical flows)

• Many countries report energy balances to IEA

• A good starting point – lots of detailed information
  -> but huge variations between countries on level of detailed information

  -> however good overview over what kind of data is missing, i.e. where to put your effort in order to finalize the compilation of the energy accounts

• Need knowledge of the energy balances: which EB numbers are to be converted into which EA numbers?
Only using the IEA energy balances are not enough to compile energy accounts

- Adjustments according to the residence principle is needed
  -> the amount of adjustments will vary among countries

- Are there global datasets with the data needed for these adjustments?
  -> in general no

- National specific information/statistics is necessary
  -> Eurostat experience
  -> Transport industries, export/import, industry breakdown
Some provisional conclusions on the use of IEA datasets in compilations of EA

• A good starting point for many countries that already have developed basic energy statistics that is reported internationally.

• For many countries compiling energy accounts, this means that they do not need to start from scratch.

• For some countries/some regions, using global datasets could be a easy way to get started with the compilation of energy accounts.

• However – need to check quality and origin of the global datasets that are to be used as the source for the compilation of energy accounts.
Questions?

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