

# SEEA-energy – some general remarks

Intended audience:

- Compilers at statistical offices, etc.
- For new-comers – not only for experts in national accounts and energy statistics
- Should stand on its own feet, i.e. not necessary to know SEEA, SNA or IRES to understand and use the text
- The individual chapters should to some extent be independent of the other chapters (i.e. some repetition is involved)
- Style is different from SEEA

## General remarks

- Elaborate SEEA with regard to energy and gather from SEEA and SEEA all issues related to energy
- Aims at being consistent with SNA2008, SEEA and Ires to the extent possible
- However air emissions and other residuals from energy production and use are not included
- Assets and flows - Physical and monetary
- Describe, accounts, concepts and methods in energy accounting

## General remarks

- Existing draft is very broad with a large number of accounts/tables – so far no recommended tables/minimum requirements
- Chapter 3-6 focus on the full accounts/tables – not on individual aggregates and indicators
- SEEA-E is not intended to be a compilers manual - but for some issues it is close to being it (e.g. the net present value method, NPV)

# Chapter 1 - Introduction to SEEA-E

- Not yet fully elaborated
- Should give an introduction to SEEA-E and an overview of the publication
- Give background and explain the relevance and value added of accounting for energy
- Explain the role of SEEA-E within the suite of publications (SNA, SEEA, IRES, ESCM, SEEA-water, etc.)

# Chapter 2 – The SEEA-E Framework

- Not yet fully elaborated
- Description of overall links and flows of energy into, through and out of the economy
- General concepts, boundaries, definitions, classifications, terminology used throughout SEEA-E
- Some text can probably be moved from other chapters to chapter 2 (would in some cases help to avoid repetitions)

# Chapter 3 Physical asset accounts

- Defines the scope of physical asset accounts
- Includes in principle all energy resources
- But - although renewable energy resources are assets, they are not included for practical reasons
- Classifications – by type and by characteristics
- Asset accounts for energy resources and for energy products (inventories)
- Expansion of what the each item of the accounts means

## Chapter 3

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# Chapter 4 Monetary asset accounts

- The items of the monetary asset accounts are in principle already included in the SNA 2008 – however seldom/never in practice
- This chapter should be useful also for national accountants
- The chapter aims at giving precise advice on what the accounts should look like, and how they should be set up
- Puts a market value on the physical accounts in chapter 3
- Detailed description of the NPV method for valuing both stocks and the changes in stocks
- Gives a detailed description of the link to the SNA 2008



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# Chapter 5    Physical flow accounts

- Main principle: Physical flow accounts = PSUT for energy
- So far simplified PSUT have been used – no full balance of inputs and outputs shown
- Explicit correspondence to the monetary accounts – corresponding flows + additional flows (natural resources, waste, losses)
- SEEA concepts explained: Resources, products, residuals, - however, more "common"/pragmatic terms and subdivisions are used in the tables (e.g.losses instead of residuals)

# Three sets of tables

- 1) Standard PSUTs – both natural units (tonnes, etc. and Joules)
- 2) Energy use by purpose (Transport, heating, others (processes), and non-energy use)
- 3) From primary products and imports through conversion to end use
- + Bridge tables for supply and use

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# Chapter 6 Monetary and hybrid flow accounts

- National accounts SUTs for energy
- Full correspondence to part of the physical SUTs
- Supply and use tables at basic and purchasers prices
- The chapter includes explanation of the SNA 2008 concepts (price concepts, taxes, transfers, etc.)
- SNA 2008 accounts for production, income generation and distribution for activities related to energy

- Depletion adjusted accounts following SEEA
- Transfers (taxes, subsidies, royalties, etc.) related to energy
- Accounts for environmental expenditures and resource management expenditures related to energy

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# Chapter 7 Presentation and use of the accounts

Aims to show how selected information from the accounts can be presented in order to communicate the information to users

Categorised under headlines, which should be policy relevant, but the text is deliberately not focusing on specific policy issues as such.

Focus on presentation by figures and as time series with short comments on what the figures show

It is in this chapter that the main focus on aggregates and indicators is presented

All figures are based on the data shown in the accounts in the preceding chapters in order to ensure full consistency throughout the document and facilitate an understanding of the links. All figures include a reference to the accounts where data comes from.

However, in some cases the examples include results from IO-modeling, which is by now more or less standard uses of the accounts carried out by the statistical offices



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