



UNFC in the
SEEA-Energy Statistical Standard and the
International Recommendations for Energy
Statistics
UNSD

UNECE Group on Experts on Harmonization of Fossil
Energy and Mineral Resources Terminology
Geneva, 25-27 April 2009



Outline

- UNSD publications on energy statistics
- Process (SEEA-E and IRES)
- Coverage and outline (SEEA-E and IRES)
- Future activities



UNSD publications on Energy

A suite of publications in support of energy-related information:

- **SEEA-E**

A standard for physical and monetary energy accounts

Will serve as an input in the revised **SEEA**

- **IRES** (International Recommendation on Energy Statistics)

The statistical foundation: Definitions, classifications, agreed data items, data collection strategy, data quality.

- **ESCM** (*Energy Statistics Compilers Manual*)

Compilation guide: Best practices, examples of data collection methods



Process SEEA-E

- UNSD has embarked on the drafting of the SEEA-E as part of its regular work programme in beginning of 2008 under the auspices of the United Nations Committee of Experts on Environmental-Economic Accounting
- Work carried out in cooperation with London Group on Environmental Accounting, Oslo Group on Energy Statistics and InterEnerStat



Process IRES

Upon recommendation of the UN Statistical Commission (2006), UNSD has embarked in the development of International Recommendations for Energy Statistics (IRES)

Work is carried out in cooperation with:

the Oslo Group on Energy Statistics (convener - Statistics Norway)

the Inter Secretariat Working Group on Energy Statistics (convener – the International Energy Agency; the Group is known as InerEnerStat)



Coverage of the SEEA-E

- Agreed concepts, definitions, classifications, accounting rules and valuation principles
- Physical and monetary accounts for energy resource stocks
- Physical and monetary flow accounts related to energy
- Bridge tables between energy balances and energy accounts
- Air emission accounts, including bridge tables with emission inventories



Draft outline of SEEA-E

Chapter 1: Introduction.

Chapter 2: The SEEA-E framework

UNFC to be presented
in these chapters

Chapter 3: Physical asset accounts

Chapter 4: Monetary asset accounts

Chapter 5: Physical flow accounts

Chapter 6: Monetary flow accounts

Chapter 7: Air emission accounts for energy related emissions

Chapter 8: Hybrid accounts

Chapter 9: Applications of energy accounts



SEEA-E: Physical and monetary asset accounts for energy resources

- Record the opening and closing stocks as well as changes in stocks of energy resources (below ground) in the accounting period due to extraction, discoveries, reclassification or natural causes etc.
- Monetary asset accounts show the value of energy resources
 - Provide an indication of the contribution of energy resources to the wealth of a nation
- *Inventories of energy products (above ground)*



Classification of energy resources in SEEA-E

- Criteria for incorporating UNFC in the SEEA: Use the highest level possible, i.e. no more details than needed.
- The abbreviated UNFC seems appropriate
- Focus is on assets/deposits in SEEA-E – not on projects
- Only known deposits are included – not potential deposit

Current suggestion for UNFC based SEEA-E classification:

A. Commercial Recoverable

B. Potential Commercial Recoverable

C. Non Commercial and Other Known Deposits



Coverage IRES

IRES is intended to cover a broad range of topics from basic concepts, definitions and classifications, data items, data sources, data compilation strategies, energy balances, dissemination and links with energy accounts and emission inventories

IRES will provide a firm foundation for a long-term development of energy statistics based on Fundamental Principles of Official Statistics



Draft outline of IRES

Chapter 1. Introduction

Chapter 2. Scope of energy statistics

Chapter 3. Standard international energy classification

Chapter 4. Units of measurement and conversion factors

Chapter 5. Flows, stocks and related concepts

Chapter 6. Statistical units and data items

Chapter 7. Data sources and data compilation strategies

Chapter 8. Energy balances

Chapter 9. Data quality

Chapter 10. Dissemination

Chapter 11. Use of energy balances in compilation of energy accounts and other statistics



SEEA-E and UNFC: Future

- Including final abbreviated UNFC in SEEA-E (mapping schemes of UNFC and other classifications will be welcomed)
- Further contact and advice from Ad Hoc Group of Experts will be needed
- Further discussion of SEEA-E draft with experts on environmental-economic accounting (drafting group, London group, etc.)



IRES and UNFC: Future

The work on the classification and harmonization of mineral and energy resources is very important

While basic energy statistics and balances have historically focused on production, transformation and uses, the links between production/extraction with the classification of resources has to be addressed in order to have a consistent system of information



Timeline completion SEEA-E

- Draft chapters will be circulated to drafting group progressively as they become available
- UN Expert Group will review complete draft of SEEA-Energy at the end of 2009
- The revised draft will be submitted to the UNCEEA for approval and then to the UN Statistical Commission for adoption



Timeline for IRES

- A complete draft to be discussed at the 5th Oslo Group meeting (beginning of 2010)
- A worldwide consultation with countries on the draft text of IRES will take place in mid 2010
- An UN Expert Group will review the draft towards the end of 2010
- Upon recommendations of the UN Expert Group, the revised IRES will be submitted to the UN Statistical Commission



Additional information

- SEEA-E: contact UNSD at seea@un.org
- IRES: contact UNSD at energy_stat@un.org
- Relevant links
 - Global Assessment of Energy Accounts
<http://unstats.un.org/unsd/envaccounting/ceea/surveyEEA.asp>
 - Report on SEEA-Energy to UN Committee of Experts on Environmental-Economic Accounting
http://unstats.un.org/unsd/envaccounting/ceea/meetings/UNCEEA_3_8.pdf
 - SEEA-Energy website:
<http://unstats.un.org/unsd/envaccounting/seeae/>
 - IRES website:
<http://unstats.un.org/unsd/energy/ires/default.htm>