



Core tables for energy

Sokol Vako

United Nations Statistics Division

19TH Meeting of the London Group

12-14 November 2013

London, UK



Outline of presentation

- Rational and mandate
- Structure of the document
- Building blocks for Core table 1
- Core table 1
- Indicators



Rational and mandate

- UNSC at its 44th session urged UNCEEA to develop a core set of tables and accounts
- Core tables provide concise/aggregate information from which relevant indicators can be derived
- Common basis for compilation and country comparison
- Tricky to find a balance between complexity of the tables (level of detail and presentation) and relevance
- Appealing to various communities
- High demand for energy accounts
- Part of nexus on energy-water-food security nexus



Structure of the document

- Same as the water core table note
- Part I – Core tables
- Part II – Indicators
- Part III – Compilation issues—to be drafted following ESCM
 - Basic steps to compile the tables
 - Main data sources
 - Main measurement challenges
- Annex – List of data items



Building blocks to the core table

- Core table 1 is composed of 3 major blocks
- First block shows supply and use of energy products in monetary terms
- Second block contains data on supply and use of energy products in physical terms
- Third and final block has monetary and physical data on stocks on energy resources



Building blocks to table 1

Physical use table for energy

	Intermediate consumption, Use of energy resources, Receipt of energy losses					Final consumption	Accumulation	Flows to the rest of the world Exports	Flows to the environment	Total use
	Agriculture, forestry and fishing	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning supply	Transportation and storage					
	ISIC A	ISIC B	ISIC C	ISIC D	ISIC H					
Energy from natural inputs										
Natural resource inputs										
Inputs of energy from renewable sources										
Other natural inputs										
Energy products:										
Transformation of energy products by SIEC class										
Coal										
Peat and peat products										
Oil shale/ oil sands										
Natural gas										
Oil										
Biofuels										
Waste										
Electricity										
Heat										
Nuclear fuels and other fuels nec										
End-use of energy products by SIEC class										
Coal										
Peat and peat products										
Oil shale/ oil sands										
Natural gas (extracted)										
Oil (oil products)										
Biofuels										
Waste										
Electricity										
Heat										
Nuclear fuels and other fuels nec										
End-use of energy products for non-energy purposes										
Energy residuals:										
Total energy residuals										
Other residual flows:										
Residuals from end-use for non-energy purposes										
Energy from solid waste										
Total use										



Core table 1

- Countries can start by compiling information that is most policy relevant and focus on the any of building blocks to core table 1 if information on other building blocks is not readily available
- Core tables are flexible in that if more detailed information is required, rows/columns can be further disaggregated as necessary.



Indicators

- Based on “Energy Indicators for Sustainable Development: Guidelines and Methodologies”
- Social dimension
 - Share of household income spent on fuel and electricity
 - Household energy use for each income group and corresponding fuel mix
- Environmental dimension
 - GHG emissions from energy production and use per capita and per unit of GDP
 - Air pollutant emissions from energy systems



Indicators

- Economic dimension
 - Energy use by economic activity
 - Intensity and productivity indicators
 - End-use energy prices by fuel and by sector
 - Net energy import dependency
 - Stocks of critical fuels per corresponding fuel consumption



The way forward

- Mandate comes from the UNSC
- Extensive consultations to be held
 - London Group
 - International organizations
 - National statistical offices
 - Water community
- Tables may need to be revised depending on the outcome of the SDGs indicators related to water
- Draft to be considered by the UNCEEA



Questions for the LG

- Do you agree with the structure of the document?
- Do you agree with the general structure of the proposed core tables?
- Should particular rows/columns be added/removed?