

UNSD Annual Questionnaire on Energy Statistics



Environment and Energy
Statistics Workshop for the
Arab Region

Amman, Jordan 8-12 September 2013

Environment and Energy Statistics Branch
United Nations Statistics Division



Overview

- UNSD data collection
- Revision of UNSD Annual Questionnaire on Energy Statistics
- Process and Timeline



UNSD data collection

- UNSD collects data on a global basis in order to provide a database of comparable statistics for all countries
- The level of information in the UNSD questionnaire is based on a common set of statistics that countries are expected to compile at a minimum
- The questionnaire is based on a compromise between the relevance of the data and the availability of data in countries



Data collected through the Annual Energy Statistics Questionnaires feed into:

- Energy Yearbook
- Energy Balances and Electricity Profiles
- Energy statistics database (1950 – present)
- UNdata (Energy statistics from 1990 to present)



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Energy Statistics

Energy Statistics Yearbook August 2013

The 2010 Energy Statistics Yearbook is the fifty-fourth issue in a series of annual compilations of internationally comparable statistics summarizing world energy trends, which commenced under the title *World Energy Supplies in Selected Years, 1920-1950*. Annual data for 215 countries and areas for the period 2007 to 2010 are presented on production, trade and consumption of energy for solid, liquid and gaseous fuels, electricity, and heat. Per capita consumption series are also provided for all energy products. Graphs are included to illustrate historic trends and/or changes in composition of production and/or consumption of major energy products. Special tables of interest include: international trade tables for coal, crude petroleum and natural gas by partner countries; selected series of statistics on renewables and wastes; refinery distillation capacity; and a table on selected energy resources.


The Energy Statistics Yearbook is bi-lingual (English and French) and is available in printed and electronic (PDF format) versions.



Order

2010 Energy Statistics Yearbook	PDF size
Table of contents	32KB
Introduction	23KB
Country nomenclature	15KB
Abbreviations and symbols	12KB
Definitions	215KB
Units of measurement and conversions	15KB
General notes	10KB

UNdata



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Energy Statistics

Energy Balances and Electricity Profiles August 2013

The 2010 Energy Balances and Electricity Profiles provides energy balances for 126 countries for the period 2007-2010 and electricity profiles for 180 countries for the period 2005-2010. The energy balances are snapshots of the annual energy flows in each country showing production, trade, transformation and consumption of energy products. They are presented in a common unit - Terajoules. The electricity profiles provide detailed information for each country on the production, trade and consumption of electricity, net installed capacity and thermal power plant input and efficiency.

The publication is bi-lingual (English and French) and is available in printed and electronic (PDF format) versions.




Order

2010 Energy Balances and Electricity Profiles	[English]	[French]
Table of Contents	13KB	25KB
Introduction	29KB	15KB
Concepts and Definitions	7KB	7KB
Abbreviations and Symbols	23KB	25KB
Conversion Factors		

Energy Balances (2007 - 2010)

Countries (A - B) 610KB

UNdata



Revision of the UNSD Questionnaire

Main objectives:

- Align the questionnaire with the terminology, definitions and classifications in IRES
- Harmonize to the extent possible our questionnaire with the IEA/Eurostat/ECE Questionnaire
- Format of UNSD questionnaire



Alignment with IRES

Alignment in terminology

On the products side:

- Lignite/brown coal → Brown Coal
- Hard coal briquettes → Patent fuel

On the flow side:

- Conversions → Transformation
- Consumption by the energy sector → Energy industries own use



List of product is now fully aligned with SIEC

Revised UNSD Questionnaire

- Hard Coal
 - Anthracite
 - Coking coal
 - Other bituminous coal
- Brown Coal
 - Lignite
 - Other sub-bituminous coal

UNSD Questionnaire

- Hard Coal
- Lignite/Brown Coal

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List of flows is now fully aligned with IRES

Revised UNSD Questionnaire

Manufacturing, construction and non-fuel mining industries

- Iron and steel
- Chemical and petrochemical
- Other industry
 - Non-ferrous metals
 - Non-metallic minerals
 - Transport equipment
 - Machinery
 - Mining and quarrying
 - Food, beverages and tobacco
 - Paper, pulp and printing
 - Wood and wood products
 - Construction
 - Textiles and leather
 - Not elsewhere specified

UNSD Questionnaire

Industry Sector

- Iron and steel
- Chemical and petrochemical
- Other industry

Or even ask for a ISIC 2-digit level of detail

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Harmonization with the IEA/ Eurostat/ECE Questionnaire

- The UNSD and the IEA/Eurostat/ECE Questionnaires were already similar in content
- IRES has fostered further harmonization between the two Questionnaires
- Multiple benefits:
 - Reduce response burden
 - Facilitate data sharing
 - Increase transparency



Examples

UNSD Questionnaire

Hard Coal

- Anthracite
- Coking coal
- Other bituminous coal

Brown Coal

- Lignite
- Other sub-bituminous coal

IEA/Eurostat/ECE Questionnaire

- Anthracite
- Coking Coal
- Other bituminous Coal

- Lignite
- Other sub-bituminous coal



Examples

- UNSD Questionnaire

Manufacturing, construction and non-fuel mining industries

- Iron and steel
 - Chemical and petrochemical
 - Other industry
 - Non-ferrous metals
 - Non-metallic minerals
 - Transport equipment
 - Machinery
 - Mining and quarrying
 - Food, beverages and tobacco
 - Paper, pulp and printing
 - Wood and wood products
 - Construction
 - Textiles and leather
 - Not elsewhere specified
- Or even ask for a ISIC 2-digit level of detail

- IEA/Eurostat/ECE Q.

Industry Sector

- Iron and steel
- Chemical and petrochemical

- Non-ferrous metals
- Non-metallic minerals
- Transport equipment
- Machinery
- Mining and quarrying
- Food, beverages and tobacco
- Paper, pulp and printing
- Wood and wood products
- Construction
- Textiles and leather
- Not elsewhere specified (Industry)



Format of UNSD Questionnaire

- UNSD Questionnaire

		QUESTIONNAIRE ON ENERGY STATISTICS UNITED NATIONS STATISTICS DIVISION								
		Country/Area:								
		Unit *	2005 In *	2006 In *	2007 In *	2008 In *	2009 In *	2010 In		
Supply	Hard Coal (CL); Metric tons, thousand (WSR)									
	CL01 Gross production	WSR								
	CL03 Imports	WSR								
Transformation	CL04 Exports	WSR								
	CL05 Bunkers (International)	WSR								
	CL06 Changes in stocks	WSR								
	CL06A Gross inland availability	+WSR								
	CL08 Conversion to other forms of energy	+WSR								
	CL081 In coke ovens	WSR								
	CL082 In gasworks	WSR								
	CL083 In briquetting plants	WSR								
	CL084 In blast furnaces	WSR								
	CL088 In thermal power plants	WSR								
Energy industry own use	CL089 In other energy-producing plants	WSR								
	CL09 Consumption by energy sector	+WSR								
	CL0911 By mining industry (energy commodities)	WSR								
	CL0914 By biogas plants	WSR								
	CL0921 By coke ovens	WSR								
	CL0922 By gasworks	WSR								
	CL0923 By briquetting plants	WSR								
	CL0924 By blast furnaces	WSR								
	CL0925 By petroleum refineries	WSR								
	CL0927 By thermal power plants & auxiliaries	WSR								
	CL0928 By other energy producers	WSR								
	CL11 Consumption for non-energy uses	WSR								
	CL101 Conversion, transport & distribution losses	WSR								
	CL12	Statistical differences	-WSR							
Energy consumption	CL06A Net inland availability	+WSR								
	CL121 Consumption by industry & construction	+WSR								
	CL1211 By iron and steel industry	WSR								
	CL1213 By chemical industry	WSR								
	CL1214 By other industries and construction	WSR								
	CL122 Consumption by transportation industry	+WSR								
	CL1222 By rail	WSR								
	CL1224 By inland and coastal waterways	WSR								
	CL1225 By other modes of transportation	WSR								
	CL123 Consumption by households and other consumers	+WSR								
CL1231 By households	WSR									
CL1232 By agriculture	WSR									
CL1234 By other consumers	WSR									
CL1234	By other consumers	WSR								
Lignite/Brown Coal (L.B); Metric tons, thousand (WSR)	Unit *									
	LB01 Gross production	WSR								
	LB03 Imports	WSR								



Revised UNSD Questionnaire

Composed of five parts

- Coal (SIEC Sections 0, 1 and 2)
- Gas (SIEC Section 3)
- Oil (SIEC Section 4)
- Renewables (SIEC Sections 5 and 6)
- Electricity and Heat (SIEC Sections 7 and 8)

Two ways to input the data

- for a selected product: historical data (same as before)
- for a selected year: data for all products



What's next?

- We are currently preparing a final draft of the revised questionnaire
- Next round of data collection with the revised questionnaire
- Explore ways to facilitate the automatic filling of the questionnaire or even use different format (e.g. SDMX)



Thank you!

