



الاسكوا
ESCWA

ENERGY STATISTICS CHALLENGES IN THE ARAB REGION PART II

ESCWA PROJECT ON ENERGY STATISTICS

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ESAB Energy Statistics and Balances Project

Activities

Publications

Forum

ESAB Docbase

Resource Persons

Links

ACTIVITIES

Assessment Missions

- ▢ [Needs Assessment Mission to UAE, June 2012](#)
6/19/2012 to 6/21/2012
- ▢ [Needs Assessment Mission to Qatar, March 2012](#)
4/3/2012 to 8/3/2012
- ▢ [Needs Assessment Mission to Egypt, Feb- March 2012](#)
2/27/2012 to 1/3/2012

Fellowships

- ▢ [Fellowship to IEF, Riyadh, November 2012](#)
11/24/2012 to 11/27/2012
- ▢ [Fellowship to IEA, March 2012](#)
3/5/2012 to 3/9/2012
- ▢ [Fellowship to Paris, November- December 2011](#)
11/29/2011 to 12/1/2011

Meetings/ Trainings/ Workshops/ EGMs

- ▢ [National Workshop on Energy Statistics and Energy Balance](#)
4/27/2014 to 5/1/2014
- ▢ [Training for Trainers on Energy Statistics and Balance in the Arab Region](#)
3/9/2014 to 3/13/2014
- ▢ [Training Workshop on Environment and Energy Statistics for Arab Countries](#)
9/8/2013 to 9/12/2013
- ▢ [National Training Workshop on Energy Statistics and Energy Balance, Khartoum, Sudan](#)
9/6/2013 to 6/13/2013
- ▢ [Training Workshop on Energy Statistics and Energy Balance for GCC Countries, Abu Dhabi, UAE](#)
2/17/2013 to 2/21/2013
- ▢ [Expert Group Meeting on Energy Statistics and Balance, Beirut, Lebanon](#)
4/18/2012 to 4/20/2012

Missions

- ▢ [Follow up Mission on Energy Statistics, Erbil, Iraq](#)
6/1/2014 to 6/6/2014



Focus of Energy Statistics Project 2010-2014

1) technical assistance tailored to the needs of the countries;

Capacity Built in Energy Statistics

2) expert group, methodological documents and trainings

3) enhancing the regional and international coordination and networking with the main partners (UNSD), (IEA), (IEF) and Medstat III.

Technical assistance and Needs Assessment

- Egypt, 27 March, 2012
- Qatar, 4-8 March, 2012
- UAE, 19-21 June, 2012
- Oman, February 2014
- Yemen, No Security Clearance
- Erbil , June 2014

Led by Statistical Offices, with National Partners,
ESCWA staff, consultants

Needs Assessment reports produced

National working groups networks

Inter Agency Meetings

- Medstat meeting in Paris, November 2011
- 6th InterEnerStat meeting 3-4 December 2012, that was attended by 34 people from 21 international organisations to enhance coordination and standardize energy questionnaires.
- Upcoming InterEner Stat Dec 2014

EGM on Energy Statistics and Balance, 18-20 April 2012 Beirut

- In cooperation with UNSD, MEDSTAT III, IEA, and delegates from National Statistical offices, Ministries of energy and electricity, regional organizations, OAPEC and the Regional Center for Renewable Energy and Energy Efficiency (RCREEE).



- Focus on the statistical methodologies for compilation of oil, gas, electricity and renewable energy as per international standards, to prepare energy balances and accounts and derive energy indicators for evidence-based policy making.
- Coordinating statistical activities among regional and international organizations and member countries.

<http://www.escwa.un.org/information/meetingdetails.asp?referenceNum=1810E>

Training Workshop

UAE Workshop 7-21 February, 2013

UAE Workshop 7-21 February, 2013: The IEA-UNESCWA Energy Statistics Training was conducted 7-21 February, 2013, in cooperation with UNSD and IEA and hosted by the National Bureau of Statistics in Abu Dhabi, United Arab Emirate

Visit to Masdar City



Energy and Environment Workshop 2013

- An important initiative developed by UNSD and ESCWA on linking energy and environment statistics as the linkages between the two sectors are structural.
- Training workshop of its kind on Environment and Energy Statistics for Arab Countries, Amman 8-12 September 2013
- Environmental and energy statistics experts from UNSD and from ESCWA in cooperation with the Arab Institute for Training in Statistics (AITRS)
- 30 representatives from Arab countries from Statistical offices, Ministries of Environment and Energy.

Training for Trainers (TOT Oman Feb 2014)

GCC-Stat Conducts Regional Energy Statistics Workshop

11 - 03 - 2014



Muscat, 11 March 2014: Under the Auspices of His Excellency Sultan bin Salim for Western Asia (UN-ESCWA) as well as the International Energy Agency (IEA).

In his address speech during the opening of the workshop, H.E. Sabir bin Said Al F data and prepare statistics in the ESCWA member states. The workshop is also a p

The workshop was organised to increase the skills and knowledge of statistics spec in the GCC and across the Arab world, the 5 day workshop covers an intensive ser



UNESCWA Gulf Stat Training for trainers on Energy Statistics and balance in the Arab region, Oman 9-13 March 2014

Draft Agenda

Sunday, 9 March		
08:00 – 08:30	Registration of participants	Registration desk
08:30 – 09:00	Welcome remarks	Gulf stat, UNESCWA, IEA, UNSD [Dignitaries]
09:00 – 10:00	Introduction to national and international energy statistics	IEA
10:00 – 10:15	Regional and GCC Energy Statistics and Balance	UNESCWA
10:15 – 10:30	Overview of the International Recommendations on Energy Statistics (IRES) and the work of the Oslo City Group (OCG)	UNSD
10:30 – 10:45	Coffee break	
10:45 – 11:30	Overview of the UNSD energy statistics questionnaires	UNSD
11:30 – 12:30	Overview of national energy statistics compilation methods - Presentations from participating country on their national methods for data collection and processing	Presentations from participating countries
12:30 – 13:30	Lunch time	TBD
13:30 – 15:00	Oil statistics (annual) - Presentation & Practical exercises - Q&A – country specific issues	IEA
15:00 – 15:15	Coffee break	
15:15 – 17:00	Oil statistics (annual) - Practical exercises	IEA
Monday, 10 March		
08:30 – 10:30	Oil statistics (monthly) - Presentation & Practical exercises - Q&A – country specific issues	UNSD & IEA
10:30 – 10:45	Coffee break	
10:45 – 12:30	Gas statistics (annual) - Presentation & Practical exercises - Q&A – country specific issues	UNESCWA
12:30 – 14:00	Lunch time	TBD
14:00 – 15:45	Gas statistics (annual) - Practical exercises	UNESCWA
15:45 – 16:00	Coffee break	
16:00 – 17:00	Gas statistics (monthly) - Presentation & Practical exercises - Q&A – country specific issues	IEA

Study Visits

- Oman, Bahrain and UAE to Medstat III meeting and visit to IEA in Paris, November 2011
- 3 Iraqi delegates from each of the Statistical Office, the Ministry of Petroleum and the Ministry of Electricity to participate at one-week training in the IEA headquarters in Paris 5-9 March 2012
- 3 from Sudan (2 Ministry of Oil and one from Statistics Office) and 2 from Yemen (one from Statistics and one from Ministry of Oil) to train on monthly oil data JODI at the International Energy Forum Secretariat (IEFS) 24 – 28 November 2012, in Saudi Arabia

National Workshops

- Sudan Workshop : IEA-UNESCWA Energy Statistics Training, Khartoum, Sudan, 9-13 June, 2013 hosted by the Ministry of Petroleum in Sudan with the cooperation of central bureau of Statistics
- Kuwait was planned 14-17 April 2014-canceled
- Yemen and Iraq In Cairo (Security issues) in the HQ of RECREEE) Last week of April
- Erbil, June 2014

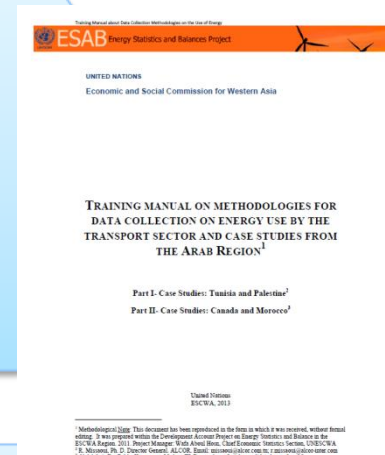
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Methodological Documents

Arabic Version of the IEA training material on energy statistics



Training Manual On Methodologies For Data Collection On Energy Use By The Transport Sector And Case Studies From The Arab REGION

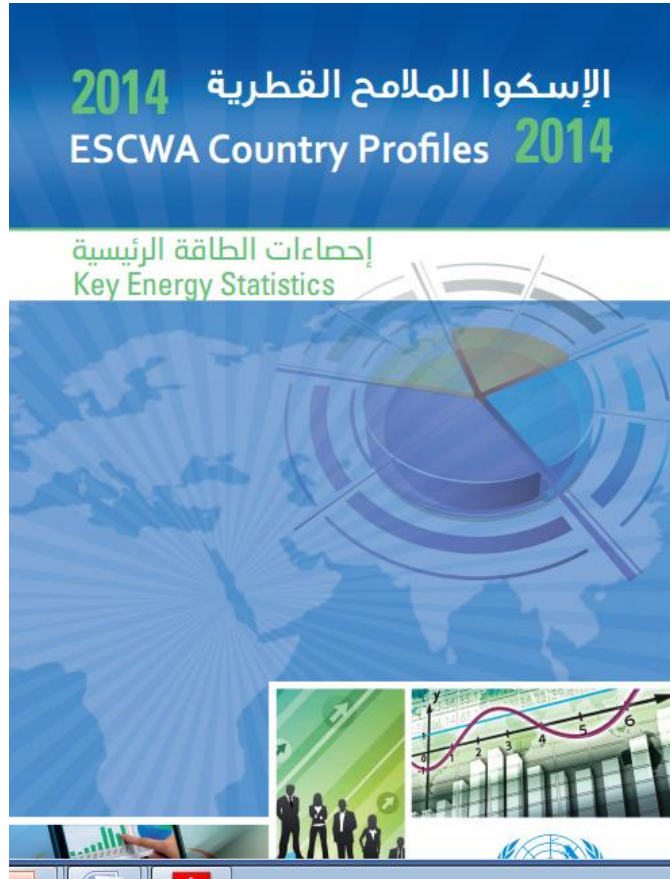


E-glossary Arabic-English for Statistical terms

Energy Questionnaires Translation IEA and UNSD

• Country Regional and Country Profiles 2014

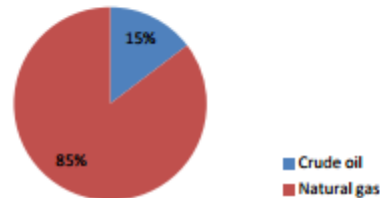
Energy



BAHRAIN

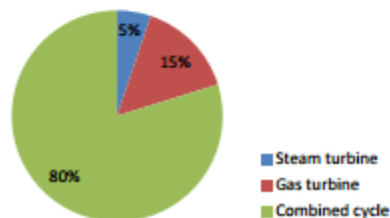
Total population, 2012	1318 000
Surface area (square kilometres)	770
GDP at current prices, 2012 (Million US\$)	30 362
GDP at constant prices, 2012 (base year 2000, Million US\$)	150 656
Oil reserves (million barrels), 2013	125
Natural gas reserves (billion m ³), 2013	191
Total Energy Production ('000 TOE), 2013	16 661
Crude oil production	2 441
Natural gas production	14 220
Hydro production	--
Reserve life crude oil (years), 2013	7.13

Total Energy Production



Total Electricity Generation (GWh), 2013	14 718
Thermal	--
Steam turbine	758
Gas turbine	2 213
Combined cycle	11 747
Diesel	--
Hydro	--
Other renewables	--
Coal and others	--
Others	--
Capacity (MW), 2013	3 934
Peak load (MW), 2013	2 917
Peak load/capacity, 2013	74.15%

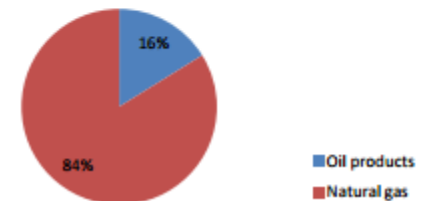
Total Electricity Generation by type



Per capita carbon dioxide emission (metric tons per year), 2010	19.2
--	------

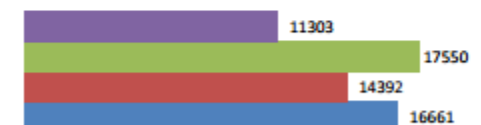
Total Energy Consumption ('000 TOE), 2012	14 392
Oil products consumption	2 327
Natural gas consumption	12 065
Hydro consumption	--
Coal consumption	--
Energy use (KOE) per \$1,000 GDP, (constant 2005 PPP), year 2011	183
Per capita Energy consumption (KOE), 2012	10 919

Total Energy Consumption



Total Electricity Consumption (GWh), 2013	13 350
Industrial	2 017
Residential	6 426
Commercial	4 855
Other	52
Per capita Electricity Consumption (KWh), 2013	10 129

Oil Exports ('000 TOE), 2012	17 550
Crude oil	6 764
Refined pdts/Oil pdts/Petroleum pdts	10 786
Natural gas	--
Coal and coal products	--
Oil Imports ('000 TOE), 2012	11 303
Crude oil	11 138
Refined pdts/Oil pdts/Petroleum pdts	164
Natural gas	--
Coal and coal products	--



Oil Imports ('000 TOE), 2012
Oil Exports ('000 TOE), 2012
Total Energy Consumption ('000 TOE), 2012
Total Energy production ('000 TOE)

Energy Flows Publications in ESCWA

Countries 5 out of 17

Jordan	http://www.dos.gov.jo/dos_home_a/main/Analasis_Reports/Use_%20energy/2008_1.pdf
UAE	http://www.uaestatistics.gov.ae/Home/ReportDetails1/tabid/90/Default.aspx?ItemId=2198&PTID=129&MenuId=1
Tunisia	http://www.gse.it/it/GSE_Documenti/_COUNTRY_REPORT_TUNISIA._2013.pdf
Algeria	http://www.ons.dz/IMG/pdf/Ener09-11.pdf
Palestine	http://www.pcbs.gov.ps/Portals/_PCBS/Downloads/book1621.pdf

ESCWA Glossary on Economic Statistics

English - Arabic

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Statistics Domain

Economic statistics-National Accounts

Term oil

Search

Reset


Arabic Search

Coal, oil and natural gas reserves

Coal, oil and natural gas reserves consist of proven reserves of anthracite, bituminous and brown coal deposits and of petroleum and natural gas reserves and fields [Arabic](#) >>

Source >>

Rents on subsoil assets

Rents on subsoil assets are a form of property income; they consist of the payments made to the owners of the subsoil assets by institutional units permitting them to extract the subsoil deposits over a specified period [Arabic](#) 

Source >>

Subsoil assets – SNA

Subsoil assets are proven reserves of mineral deposits located on or below the earth's surface that are economically extractable given current technology and relative prices [Arabic](#) [»](#)

Source >>

About ESCWA

The Economic Commission for Western Asia (ECWA) was established on 9 August 1973 pursuant to the Economic and Social Council's resolution 1818 (LV). The purpose of setting up the Commission was to raise the level of economic activity in member countries and strengthen cooperation among them. It was also intended to meet the need of the countries in Western Asia for the services of a regional economic commission to promote the development efforts in the region.

Usefull Links

United Nations / UNCTAD

الإسكوا - مسرد المفردات في الإحصاءات الاقتصادية

انگليزي - عربي

عن الإسكوا

يُضَمُّ المِثْقَالُ الأَمَمُ المُتَعَدِّدُ عَلَى تَوْفِيرِ عَوَامِلِ التَّسْكِينِ
وَالرَّوْفَةِ، وَكَلَامُهُ عَصْرَانِ أَسَاسِيَانِ لِإِقَامَةِ عَلاَقَاتِ سَلَامِيَّةٍ
بَيْنَ دَوْلَةٍ فِي الأَمَمِ، وَهَلَكَةِ عِلْمٍ وَخِرَافَةٍ مِنْهَا الْمَصَارِفُ فِي
الْحَقُوقِ، الَّتِي يَصْنَعُ لَهَا قَرَارِ الْمَجْلِسِ وَخِرَافَةُ مُرْصَأِ
مُشَاوَرَةٍ، بِمَا فِي هَلِكَةِ حَقِيقَةِ مَبْدُوءِ مُسْتَحْتَبِ أَهْلِ
الْعِلْمِ، لِمَجْلِسِهِ، مِنْ خِلَالِ الْمُسْتَعْرِضِ الْمَعْنَى الإِقْتِسَادِيَّةِ
وَالْقِيَمَةِ الإِجْتِمَاعِيَّةِ فِي هَذِهِ الْعِلَّةِ، فَهَلَكَةُ الشَّعْرِ الإِجْتِمَاعِيَّةِ
الْمَخْصِي فِي الأَمَمِ الْمُتَعَدِّدِ، وَهَلِكَةُ مَنَاقِبِهَا مِنْ حَقِيقَةِ الأَحَادِفِ
الْإِقْتِسَادِيَّةِ وَالْإِمَامِيَّةِ الْوَارِدَةِ فِي المِثْقَالِ، مِنْ خِلَالِ تَعَزِيزِ
التَّحَامُنِ وَالتَّكَامُلِ فِيمَا بَيْنَ الْبِلَادِ فِي كُلِّ مَنَاطِقٍ مِنْ مَنَاطِقِ

وصلات مفيدة

- [United Nations \(UN\)](#)
- United Nations Environment Programme (UNEP), ([Geneva](#), [Nairobi](#))
- [United Nations Framework Convention on Climate Change \(UNFCCC\)](#)
 - [UN Gateway to Climate Change](#)
- [Linkages by International Institute for Sustainable Development \(IISD\)](#)
 - [The Ozone Secretariat, UNEP](#)
- [United Nations Convention to Combat Desertification](#)

الموارد البيولوجية غير مفتوحة

- [UN Gateway to Climate Change](#)
- [Linkages by International Institute for](#)

[المباشرة للوحدات المؤسسية مثل الغابات](#)

- [The Ozone Secretariat, UNEP](#)
- [United Nations Convention to Combat](#)

Desertification

مؤلف: ليون جيه. هيلر

موارد بيولوجية غير مفتوحة تتكون من
تكاثرها غير خاضع للسيطرة أو المسؤول

أنكاريه

المصدر: www.alukah.net

موارد بيولوجية مفتوحة

موارد بيولوجية مفتوحة تغطي حائد المنه

وإدارة مبنية وسيطرة ومسؤولية الوحد

Wafa Abdul HOSN ESCWA 2014

Wala Abdul HOSN ESCWA 2014

Wafa Aboul HOSN ESCWA 2014

Database, Hardware and Software

Development of database, catalogue of metadata and compilation of energy balances in cooperation with RECREE

ESCWA purchased equipments to help strengthen the collection, management and dissemination of energy statistics in selective countries.

One server is granted to the Central Administration of Statistics in Lebanon

Six laptops are granted to the National Statistics Offices of Palestine, Sudan and Yemen

Network and Forum of practitioners in cooperation with RECREE

Hands on training material

- Hands on training material coordinated with IEA and translated into Arabic by ESCWA helped in improving the skills of the officials: Theoretical background on energy products and flows followed by exercises and sessions to solve individually and at the podium
- Two regional and three National workshops were conducted with hands on training in coordination with the IEA and UNSD
- Cooperation with RECREEE On-Line Training

Sample of the training Material



Introduction
Energy Basics
Module I: Annual Oil Statistics
<ul style="list-style-type: none"> Annual oil questionnaire overview Oil annual questionnaire 2012 Exercises 1.1 and 1.2
Module II: Natural Gas
<ul style="list-style-type: none"> Annual natural gas questionnaire overview Natural gas questionnaire 2012 Exercises 2.1-2.6
Module III: Coal
<ul style="list-style-type: none"> Coal overview Exercise
Module IV: Renewables
<ul style="list-style-type: none"> Renewables overview Exercises 4.1-4.4
Module V: Electricity
<ul style="list-style-type: none"> Electricity questionnaire overview Electricity and heat annual questionnaire Exercises 5.1-5.5
Module VI: Checks and Consistency
<ul style="list-style-type: none"> Checks and consistency overview Exercises 6.1-6.3
Module VII: Energy Balances
<ul style="list-style-type: none"> From basic energy use to energy balance Building energy balances
Module VIII: Energy Indicators
<ul style="list-style-type: none"> Energy efficiency indicators Exercises 9.1-9.2
Module IX: CO2
<ul style="list-style-type: none"> CO2 Training Guidelines- pdf CO2 Exercises- 10.1-10.4- Excel
Module X: Energy Prices
<ul style="list-style-type: none"> Energy prices overview Exercises 11.1-11.4 Exercises 11.1-11.4

ESCWA's Coordination with UN and Regional Organizations

- **UNSD, ECE,**
- **IEA**
- **OAPEC**
- **JODI/EFS**
- **LAS**
- **UNEP**
- **WB**
- **Medstat until 2012 then EEA**
- **RECREEE**
- **Islamic Bank**

Participation at International Revision of manuals and related documents

- Energy Statistics Questionnaires
- IRES
- SEEA-Energy
- SEEA Central Framework English and Arabic Revision
- Glossary for Data Item
- SEEA-Water IRWS