



Project of energy conservation indicators in the southern Mediterranean countries



**Second workshop, follow-up of data collection process
Cairo, April, 6 – 7, 2011**

Workshop minute

Table of content

Context	3
General presentation of the second workshop	4
<i>Participants</i>	<i>4</i>
Opening and introduction of the workshop	5
National experts presentations	6
Data estimation and calculation of national energy bill and public energy subsidies	2
<i>Data estimation</i>	<i>2</i>
<i>Calculation of the energy bill.....</i>	<i>2</i>
<i>Calculation of the public subsidy to conventional energy</i>	<i>2</i>
Main decisions.....	3
<i>Calculation tool– Excel file.....</i>	<i>3</i>
<i>Tasks of national experts.....</i>	<i>3</i>
<i>Planning of the next phases.....</i>	<i>3</i>
Annexes	4
<i>Workshop program</i>	<i>4</i>
<i>List of participants.....</i>	<i>4</i>

Context

The design, the implementation or the monitoring of any energy conservation policy in a country, at the national or sectoral level, requires relevant indicators which reflect the reality of the energy performances of the socio-economic activities.

In addition, for the developing countries in general and those of southern of Mediterranean sea in particular, the implementation of information systems for energy conservation indicators and those corresponding to the greenhouse gas emissions, is a key condition not only for the development of NAMAs in the framework of the current negotiations on climate change, but also for the National Energy Efficiency Action Plans, that are being prepared as part of the Arab Energy Efficiency Directive, accepted by the Electricity Ministers Council of the League of Arab States, last November 2010.

For this reason the Plan Bleu (www.planbleu.org), in partnership with RCREEE, (www.rcreee.org), launched this work on 10 MENA region and south Mediterranean countries, namely: Morocco, Algeria, Egypt, Lebanon, Syria, Jordan, Libya, Palestine, Tunisia and Yemen.

The main objective is to develop energy efficiency indicators and to interpret them for the whole region. The indicators will be, as far as possible, similar to those developed in the European Union countries. For this purpose, an Excel database is prepared, discussed among participants and is to be filled out by national experts selected in the various partner countries.

The implementation of this project is based on the contribution of 10 national experts from the private sector, whose primary mission is collecting data and developing indicators in each target country, in close collaboration with the focal points of RCREEE. These focal points are officially appointed by the Member States to represent the energy agencies or statics departments. Regional coordination of the project is ensured by Rafik Missaoui, from Alcor.

The national experts and focal points from the start, will built an Energy Indicators Network, initiated by this project. The purpose of this Network is to facilitate data collection, allow for regional exchange, and promote the dissemination of the data and indicators. The Energy Indicators Network assures continuity and sustainability of ongoing Data collection and evaluation of energy efficiency policies. This is essential for the development of Energy Efficiency in the region, as started by the above mentioned Arab EE Guidelines.

As part of this project, three workshops and one seminar, are planned with national experts and focal points RCREEE as follows:

- A kick-off workshop of the project,
- A second workshop for country expert's assistance,
- A third workshop for the validation of data and indicators calculation.

At the end of the project, a final seminar concluding the finalized results of the works will be organized for the benefit of decision-makers in the region.

This document is the minute of the second workshop organized in Cairo on 6 & 7 April 2011.

General presentation of the second workshop

The second workshop related to the Project of "energy conservation indicators in the southern Mediterranean countries and MENA region" held by Plan Bleu, in partnership with the Regional Centre for Renewable Energy and Energy Efficiency (RCREEE) and the MED-ENEC project, was organized in Cairo on 6 and 7 April 2011.

The workshop was opened by the speeches of Eng. Samir Hassan, Executive Director of RCREEE, Dr. Ahmed Badr, Representative of the European Union Delegation in Egypt (speech read by Mrs. Florentine Visser, from MED-ENEC project) and Eng. Leila Georgy Yussef, Vice-Chairman of the New and Renewable Energy Authority (NREA) in Egypt.

Nearly forty people attended the two days of the workshop, representing the 10 countries involved in the project and invited associated organizations, particularly RCREEE (represented by Amel Bida), MED-ENEC project (Florentine Visser), Also other organizations will attend the second workshop such as the Egyptian Environment Authority (represented by Ms. Gehan El-Sakka, and focal point of the Plan Bleu in Egypt) and the French Agency of Development in Egypt (represented by Anne Sophia Kervella).

Mr. El Habib El Andaloussi (Plan Bleu) then introduced the project, its purpose and the work schedule.

Objective and content of the workshop

The second workshop aims at :

- Reviewing the progress of the work of country teams for data collection
- Identifying the difficulties encountered during the data collection process
- Reviewing and analyzing the collected data
- Gathering comments and suggestions from participants in order to improve the indicator calculation tool supplied to country teams.

Participants

- Executive Director of RCREEE: Eng. Samir Hassan
- Representative of the European Union Delegation in Egypt: Dr. Ahmed Badr (represented by Florentine Visser)
- Representative of NREA: Eng. Leila Georgy
- Representative of Plan Bleu : EL Habib El Andalous
- Representative of RCREEE: Amel Bida
- Representative of MED-ENEC project: Florentine Visser
- Focal point of the Plan Bleu in Egypt: Gehan El Sakka (EEAA).

- Representative of the AFD in Egypt: Anne-Sophie Karvelas.
- National Experts (see attached list)
- Focal Points of RCREEE or their alternates (see attached list)
- Representatives of the invited organizations.

Opening and introduction of the workshop

The opening speeches were said by:

- Eng. Samir Hassan, Executive Director of RCREEE
- Mrs. Florentine Visser representing Dr. Ahmed Badr from the European Union Delegation in Egypt
- Eng. Leila Georgy, Vice Chairman of NREA

Following these opening speeches, EL Habib El Andaloussi has presented the program of the Workshop, focusing on the following points:

- Lack of access to information sources
- Relevancy of collected data
- Progress of the indicators calculation tool

He mentioned that three versions of the tool to calculate the selected indicators have been sent to national experts on the dates: 20/02/2011, 11/03/2011 and 17/03/2011.

Most experts have been working on the tool of March 11, 2011 which was reviewed on some aspects in the version of March 17, 2011, in order of its improvement. The presented tool will be adjustment according to the comments and suggestions of national teams during the workshop.

Rafik Missaoui has emphasized on the difficulties in data collection and regretted the absence of national experts from Palestine and Libya who could not attend for reasons beyond their control (visa for the Palestinian representative and civil events in Libya). He said that the objective of the workshop is to identify all the difficulties and adopt common definitions and interpretations of data and indicators.

He stressed on the informal character of the workshop and requested participants to feel free to comment, ask questions and make suggestions to improve the process of data collection and the proposed calculation tool.

Finally, Rafik Missaoui said that the workshop is divided into three parts:

- Process of data collection
- Difficulties
- Help desk to assist country teams

National experts presentations

The national experts have raised several points relating to:

- Difficulties in data collection
- Relevancy of collected data
- Sources of information and data matching
- Methods for estimating non available data
- Comments on the energy balance presented in the calculation tool
- Comments on the data and sectors listed in the calculation tool

A summary of national experts presentations are summarized in the following table:

Countries	Experts	Progress status	Difficulties	Comments
Algeria	Fatiha Gharbi	80%	<ul style="list-style-type: none"> - Tool a bit not adapted to specific aspects of energy production in case of Algeria - Calculation of energy subsidies - Some branches of industry mentioned in the tool are not existing in Algeria case - Difficulty of understanding some economic concepts (current and constant prices) - Estimation of household budgets 	Needs for the adaptation of energy balance data structure to meet the Algerian case, by introducing the liquefaction, transfers and LPG in fields.
Egypt	Mohamed Salah Elsobki	40%	<ul style="list-style-type: none"> - Some data exist in Egypt in formats different from those of the tool - Data not available for all years 	Extension of time for data collection schedule (2-3 months starting from beginning of April)
Jordan	Walid Shahin	91% (98/108) Bilan 100%	<ul style="list-style-type: none"> - Calculation of energy subsidies - Fishing sector is not considered in the tool 	The indicator on the specific consumption of thermal power plants shows an error in the calculation cell. It is required reviewing the calculation formulas.
Morocco	Aicha Laabdaoui	60%	<ul style="list-style-type: none"> - Data availability - The data of industry production exists in monetary value and not quantities 	<ul style="list-style-type: none"> - Needs to precise information on other energy sources in energy balance (biomass, etc.). - Estimation of missing data
Lebanon	Ghassan Dhib	20%	Data are incomplete	Setting up of a working group to LCEC for the project purpose
Syria	Ali Mohamed Kordab	72% (78/109)	<ul style="list-style-type: none"> - Data and calculation of energy subsidies - Incomplete data in the transport sector - Fishing sector is not considered in the tool - Particular composition of the chemical sector in Syria that includes non-separated branches (glass, ceramics, chemicals, etc). - Importance of the pumping branch 	<ul style="list-style-type: none"> - Justification of conversion factors - Proposal of schematic diagram showing the flow of energy balance in a simplified way
Tunisia	Leila Bejaoui	95%	Data on agriculture and fishing sector to be completed	Almost all data are available
Yémen	Ali Mohamed Al Ashwal		<ul style="list-style-type: none"> - Difficulty of access to data sources - Incomplete data - Difficulty of understanding some economic concepts (current and constant prices) 	<ul style="list-style-type: none"> - Specific conjuncture make data collection process difficult - Extension of time for data collection schedule (2-3 months starting from beginning of April)

Following the presentations made by national experts, Rafik Missaoui presented a summary of the main challenges and constraints raised by stakeholders, namely:

- Particular difficulties for some countries (Palestine, Libya and Yemen)
- Lack of data for certain sectors, including road transport sector and, to a lesser extent, the household sector
- Complexity of some sectors such as energy transformation in large energy producer countries (Algeria, Egypt, Libya), including activities of LNG liquefaction, transfer of LPG in the fields, etc.
- Structure and energy classification of economic sectors (industry, tertiary, etc.).
- Difficulties encountered by the country teams to classify economic activities according to the classification adopted in the calculation tool
- Heterogeneity of some sectors, particularly the tertiary sector
- Difficulties in using the calculation tool, in particular:
 - Handling the energy units
 - Definitions and conventions adopted for the energy balance
 - Economic parameters at current prices and / or constant
 - Calculation of CO2 emissions
 - Calculation of the National energy bill
 - Calculation of public subsidies to conventional energy

Explanations were provided during the workshop on issues mentioned above as well as details on the construction of energy balances. Mr. El Habib El Andaloussi insisted that one is not supposed to construct national energy balances. The latter are expected to be available in the country and should serve as sources of data for calculating indicators.

Rafik Missaoui recalled that there has been a special three years project of the European Union (MEDSTAT I & II) for the construction of energy balances (from 2004 to 2007 in the first phase, and from 2007 to 2010 in the second phase) and capacity building of stakeholders in the MENA countries.

Data estimation and calculation of national energy bill and public energy subsidies

Rafik Missaoui made proposals concerning data estimation as well as theoretical methods to calculate energy bill and public subsidies to conventional energy.

Data estimation

Experts can make estimates provided to ensure full transparency in the sources of information and the used methodology.

Calculation of the energy bill

The calculations refer to the country supply of **primary energy sources** (Coal / Coke, Crude Oil, Natural Gas, etc.).

The energy bill is the sum of the quantities available for the country (primary energy consumption) multiplied by the average international prices for each energy product (Coal / Coke, Crude Oil, Natural Gas, etc.).

Prices: Each product has a international specific price (the crude oil and petroleum products have a common price). The prices of the product will be the average of the year expressed in U.S. Dollar (provided by the Plan Bleu / Alcor).

Price considered for the primary electricity (hydro and renewable): In the absence of a regional market for renewable electricity (wind, hydro, etc.) and if we do not take into account the infrastructure costs and O & M, the considered price will be zero.

Calculation of the public subsidy to conventional energy

The "theoretical" subsidy to conventional energy is basically the difference between the energy bill and the revenue of energy sales on the local market. This definition must be taken with precaution, because there are fundamental differences between energy exporter and importer countries. To be precise, it would be more appropriate to talk about economic opportunity or international price equivalent cost, for exporting countries (some exporting countries, like Algeria, use the term product worth).

Calculation of revenue of local sales: Sum of final quantities consumed by the national end users multiplied by the average prices in the domestic market and for each product, including electrical energy.

The subsidy is the difference between the energy bill and the revenue, expressed in local currency.

The subsidies will be calculated annually for the period (2000 to 2009 or 2003 to 2009)

Main decisions

Calculation tool– Excel file

- Review and simplification of the sheet «simplified energy balance»
- Insert lines: Liquefaction on the sheet “simplified energy balance”, and also a line for transfers (which take into account the LPG in fields).
- Integration of LPG in the fields in the post crude oil production for the particular case of Algeria
- Insert information on the refining capacity
- Insert a calculation tool for annual subsidies to conventional energy
- Insert a table for energy conversion factors and units of the international system

Tasks of national experts

- Enable data collection to meet deadlines
- Data entry and completion of the new updated version of calculation tool
- Collection of energy prices on domestic markets over the period of indicators calculation
- Calculation of annual energy bills and subsidies to conventional energy by using the new tool
- Preparation of national reports under a standard template which will be proposed and sent by the project coordinator.

Planning of the next phases

Tasks	Sender	Receivers	Dates
Sending of the updated version of the calculation tool	ALCOR	National Experts	8 au 23 April 2011
Sending of the template of national report (format Word)	ALCOR	National Experts	31 April
Sending of the filled new version calculation tool	National Experts	ALCOR	31 May 2011
Subsidies calculation	National Experts	ALCOR	15 June 2011
Sending of the drafts of national reports	National Experts	ALCOR	21 June 2011

- The third Workshop will be held on June in a country to be fixed later
- The exact date of the workshop will be fixed later on.

Annexes

Workshop program

List of participants



Project of energy conservation indicators in Southern Mediterranean countries

Second workshop, Cairo, 6-7 April 2011

Agenda

5 April	
19 :00	Official dinner at the hotel – VIP meeting room – floor 15
6 April	
Opening session	
9:00	Welcome and registration
9:30	Meeting Opening <ul style="list-style-type: none"> • Welcome speech from the RCREEE Executive Director <i>Eng. Samir Hassen</i> • Speech from the Representing of European Union Delegation <i>Dr Ahmed Badr</i> • Speech from the Vice-Chairman of NREA <i>Dr Laila Georgy Youssef</i>
10:00-10:20	Presentation of country experts
10:20-10:40	<ul style="list-style-type: none"> • Presentation of the indicators project <i>H. El Andaloussi / Amel Bida</i>
10:40-11 :00	<ul style="list-style-type: none"> • Presentation of the programme and workshop organization <i>R. Missaoui</i>
11:00-11:15 Coffee break	
Session 1	
Hosted by H.El Andaloussi	
11:15-12:45	<p><i>Presentation and discussion on the countries' works outcome</i></p> <ul style="list-style-type: none"> • Egypt Country Expert & RCREEE Focal point <i>Mohamed Salab EL SOBKI / Doria ABBAS MOHAMED</i> • Algeria Country Expert & RCREEE Focal point <i>Fatiba GHERBI / Abd Elrafik BELAL</i> • Lebanon Country Expert & RCREEE Focal point <i>Ghassen DIB</i>
12:45-13:00	Discussion
13:00-14:00 Lunch break	

Session 2	
Hosted by Florentine Visser	
14:00-16:00	<i>Presentation and discussion on the countries' works outcome</i>
	<ul style="list-style-type: none"> • Yemen Country Expert & RCREEE Focal point <i>Ali Mohamed AL-ASHWAL</i> • Syria Country Expert & RCREEE Focal point <i>Mohamad Kassem KORDAB/ Jolanar TANBAK</i>
16:00-16:30	Discussion and first day's closing
18 :00	Meeting in the reception hall of the hotel to go to the Azhar Park restaurant
7 April	
Session 3	
Hosted by Adel MOURTADA	
9:00-10:30	<i>Presentation and discussion on the countries' works outcome</i>
	<ul style="list-style-type: none"> • Jordan Country Expert & RCREEE Focal point <i>Walid SHAHIN/ Abdul-Motaleb AL-NUGRUSH</i> • Tunisia Country Expert & RCREEE Focal point <i>Leila EL BEJAOUI</i> • Morocco Country Expert & RCREEE Focal point <i>Aïcha LAABDAOUI</i>
10:30-11:00	Discussion
11:00-11:15	Coffee break
Session 4	
Hosted by Amel BIDA	
11:15-12:00	<ul style="list-style-type: none"> • Results' assessment and discussion
12:00-12:15	<ul style="list-style-type: none"> • Presentation of countries reports' structure <i>R. Missaoui</i>
12:15-12:30	<ul style="list-style-type: none"> • Planning of the next stages <i>R. Missaoui</i>
12:30-13:00	<ul style="list-style-type: none"> • Discussion and workshop closing <i>H. El Andaloussi</i>
13:00h-14:30	Lunch break
Helpdesk: Assistance to country teams on specific questions	
14:30h-16:30h Rafik Missaoui & Adel Mourtada	



Deuxième Atelier étude indicateurs EE « Projet des indicateurs de maîtrise de l'énergie dans les pays de la rive sud de la Méditerranée »

Second Workshop-EE Indicators study project "Project of energy conservation indicators in the countries of southern shore of the Mediterranean"

Cairo (EG), 6 & 7 April 2011

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