



**An Overview on the Activities of:  
Arab Ministerial Council for Electricity  
Energy Department  
League of Arab States**

**Eng. Jamila Matar**

**[jamila.matar@las.int](mailto:jamila.matar@las.int)**

**Energy Department- League of Arab States**

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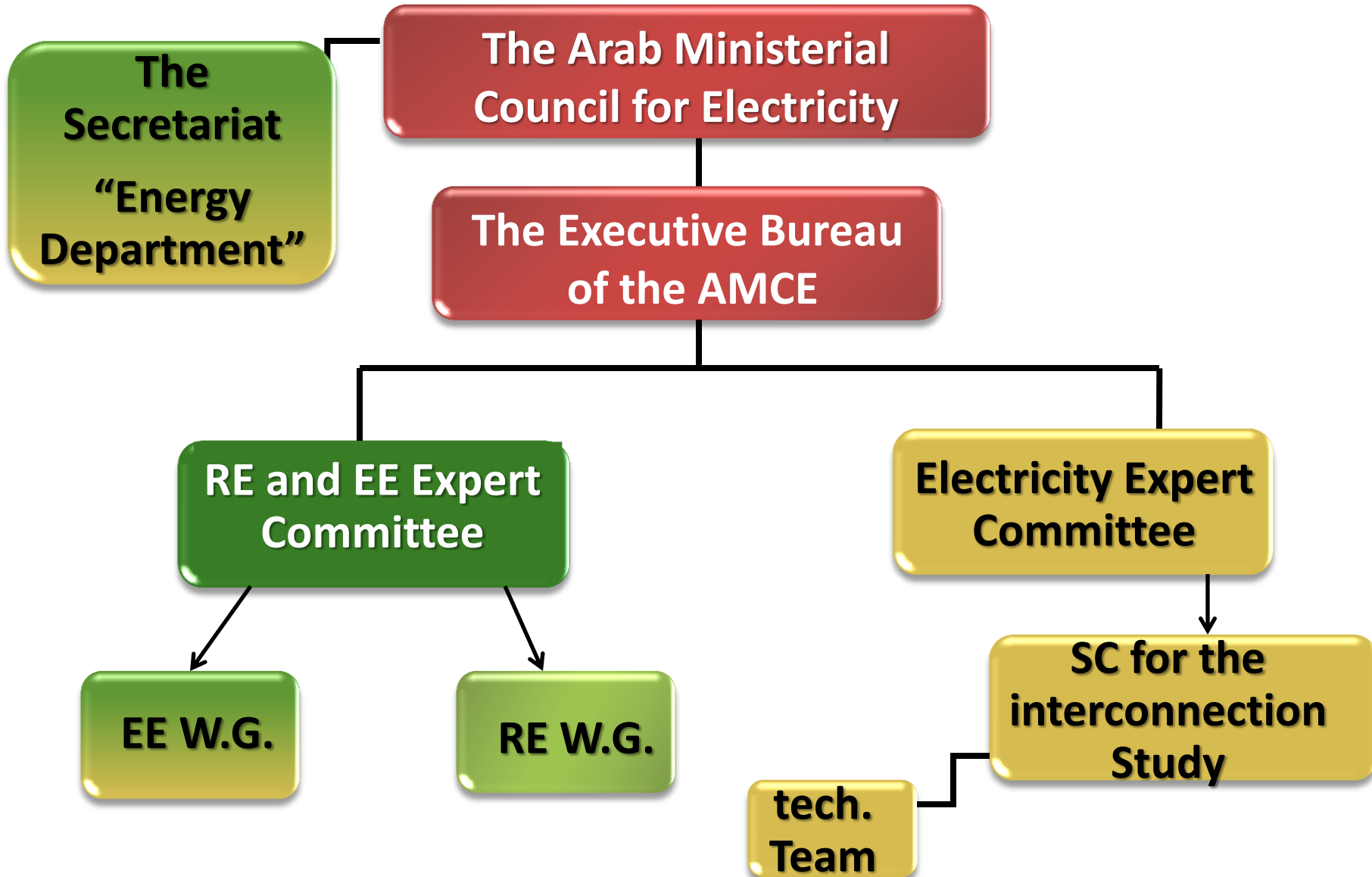


- Introduction
- **The Electricity sector .. features**
- **LAS-ED Activities in the Electricity Sector**
- **RE&EE in the Arab Region**
- **LAS-ED Activities in RE&EE**
- **Potential for Cooperation between LAS and EU**
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# Arab Ministerial Council for Electricity



# Organizational Chart of AMCE



# The AMCE



## The Arab Ministerial Council for Electricity

The Arab Ministerial Council for Electricity is one of the specialized Councils operating under the umbrella of the League of Arab States and is composed of Arab Ministers of Electricity.

The Council aims at enhancing the cooperation in the electricity sector and coordinating Arab policies in this field. The Council attaches great attention to Renewable Energy and Energy Efficiency. It has recently amended its statute accordingly by creating a dedicated expert committee for renewable energy and energy efficiency issues.

### Most important achievements of the Council in the areas of RE & EE

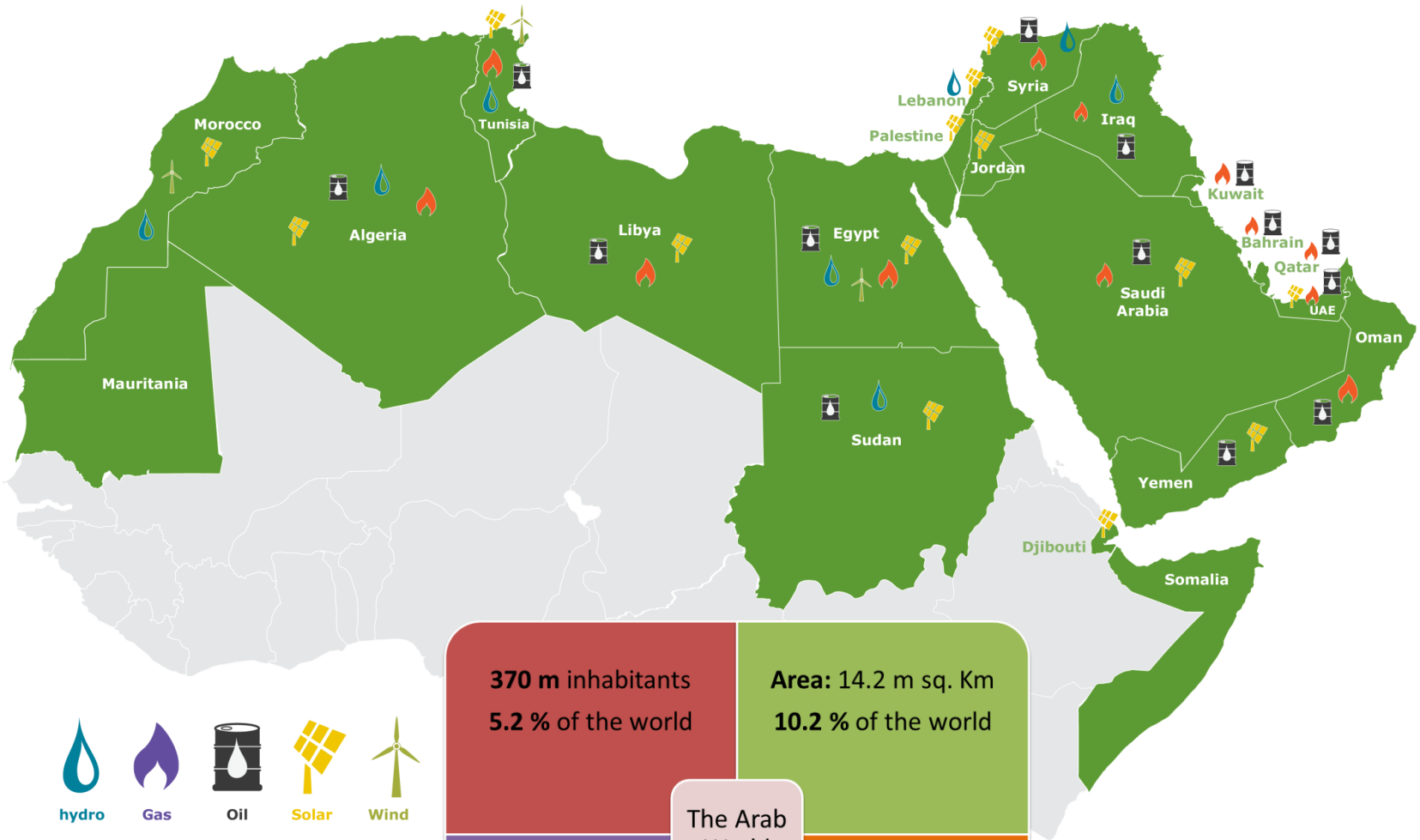
- The Arab Strategy for promoting the utilization of Renewable Energy 2010-2030.
- The Arab Ministerial Declaration on the Arab vision to exploit Solar Energy.
- The Arab Energy Guideline for Improving Electricity Efficiency and Rationalizing its consumption at the End User.
- Preparing a "Directory on the Potential of Renewable Energy and Enhancing Energy Efficiency in the Arab States".
- Choosing ((May 21st)) of every year to celebrate the "Arab Day for Energy Efficiency".

[www.lasportal.org](http://www.lasportal.org)

Email: [energy.dept@las.int](mailto:energy.dept@las.int)



# Oil, Gas and RE



hydro



Gas



Oil



Solar



Wind

370 m inhabitants  
5.2 % of the world

Area: 14.2 m sq. Km  
10.2 % of the world

The Arab  
World

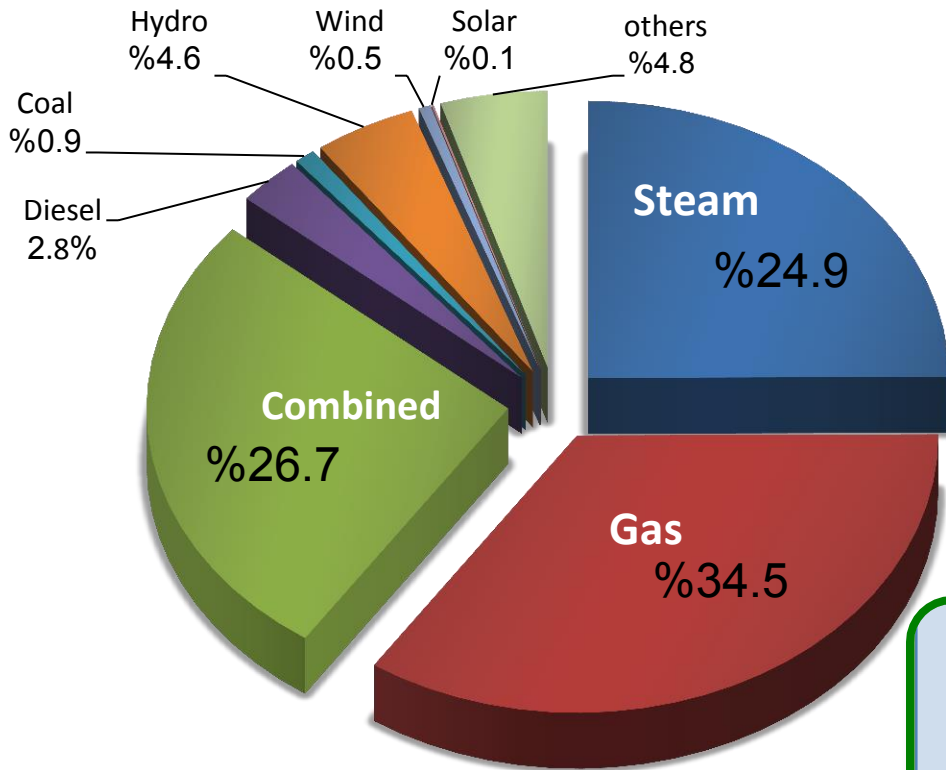
Countries: 22  
GDP: 2.85 trillion \$  
GDP per Capita 770

Energy:  
Oil reserves: 57.5 %  
Natural gas reserves:  
28.2 %

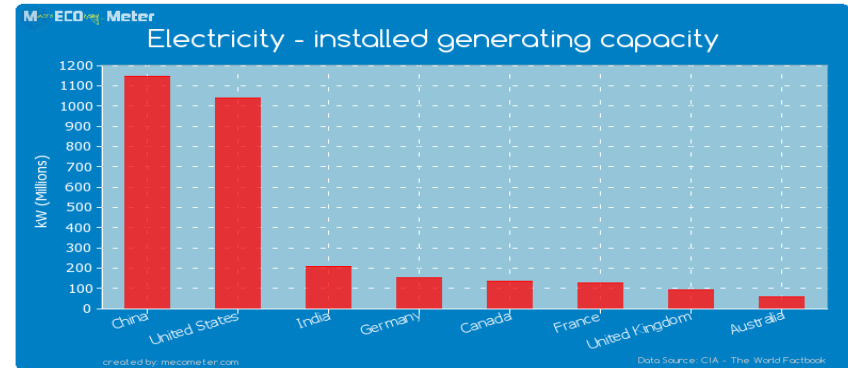


# Installed Capacity (MW) - 2013

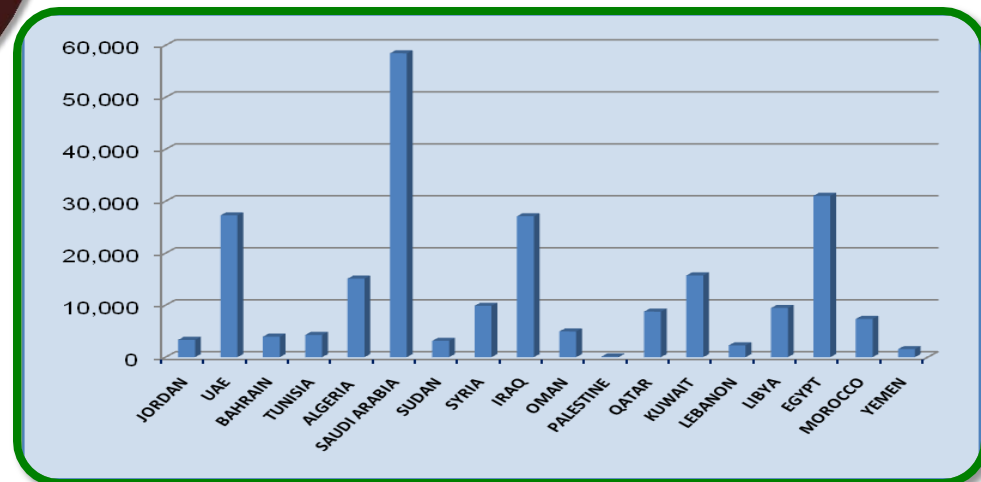
## By Fuel Type



## The world



## By Country



Total installed Capacity: 233672 MW

Annual Increase in demand 6-7%



# Renewable Energy & Energy Efficiency

The Arab Region RE&EE  
Characteristics

RE&EE Activities of the ED at LAS

Renewable

Efficiency

Policy

Data

Tech

Events



# Institutional Structure



**Companies**

**50% of the Arab states have EE small service companies**

**Experts**

**Many official governmental experts and few consultants**

**Agencies**

**7 states have EE agencies**

**Ministries**

**All ministries with related topics are concerned with EE**

**Source Arab RE&EE Guidebook, 2013**

# Legal Framework



## Targets

12 Sates  
announced  
EE targets

## National Plans

10 countries  
adapted their  
plans, 8 in the  
process of  
doing so

## Laws and Regulations

98  
regulatory  
document  
issues  
1998-2013

## M&E

3 countries  
have a  
M&V  
system for  
EE

Source Arab RE&EE Guidebook, 2013

# RE&EE Approach



- ***Approach effective strategic planning as an essential tool for guiding the future development in RE&EE for the Arab region which possess a clear socio-economic, cultural, and ecological identity.***
- ***Propose new energy legislations to the Member States through the Arab Council of Electricity Ministers to ensure RE&EE policy design harmonization and integration.***



***RE&EE Polices***



***Information Systems***



***Certification and Standards***



***International and regional cooperation***



***Meetings & Events***

## *Energy Efficiency Long Term Approach*



Build up the integration of energy efficiency component at the national energy matrix by empowering the EE planning techniques at the regional and the national level based on The Arab Guideline for improving Electricity Efficiency and rationalizing its consumption at the end user.



## *Energy Efficiency Political Framework*



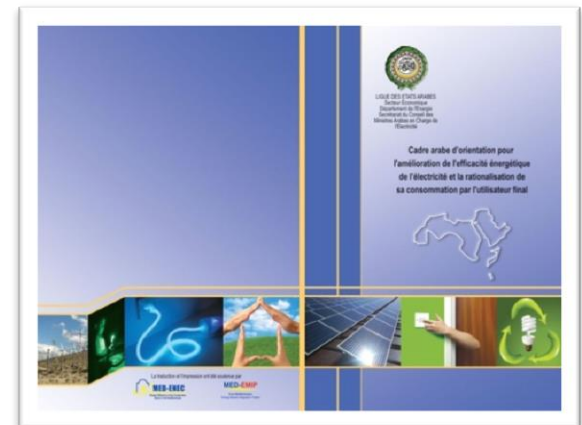
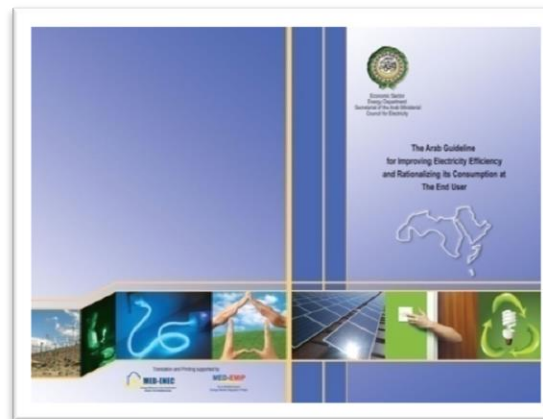
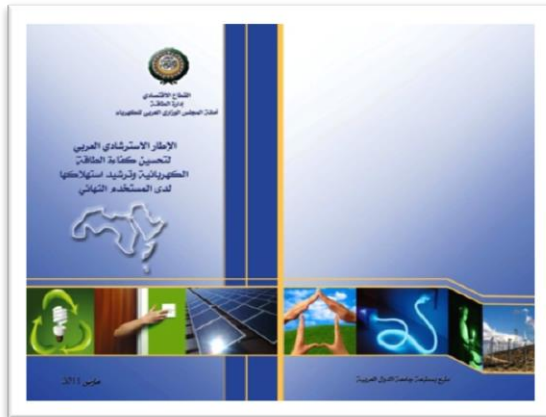
Based on the paragraph on energy in the Kuwait Declaration “Raising the standard of Living of Arab Citizens” adopted by the Arab Economic and Social Development Summit (Kuwait-January 20, 2009), which states “**promoting Arab cooperation in the field of energy, particularly in improving its efficiency, and conserving its use as means of achieving sustainable development.**”



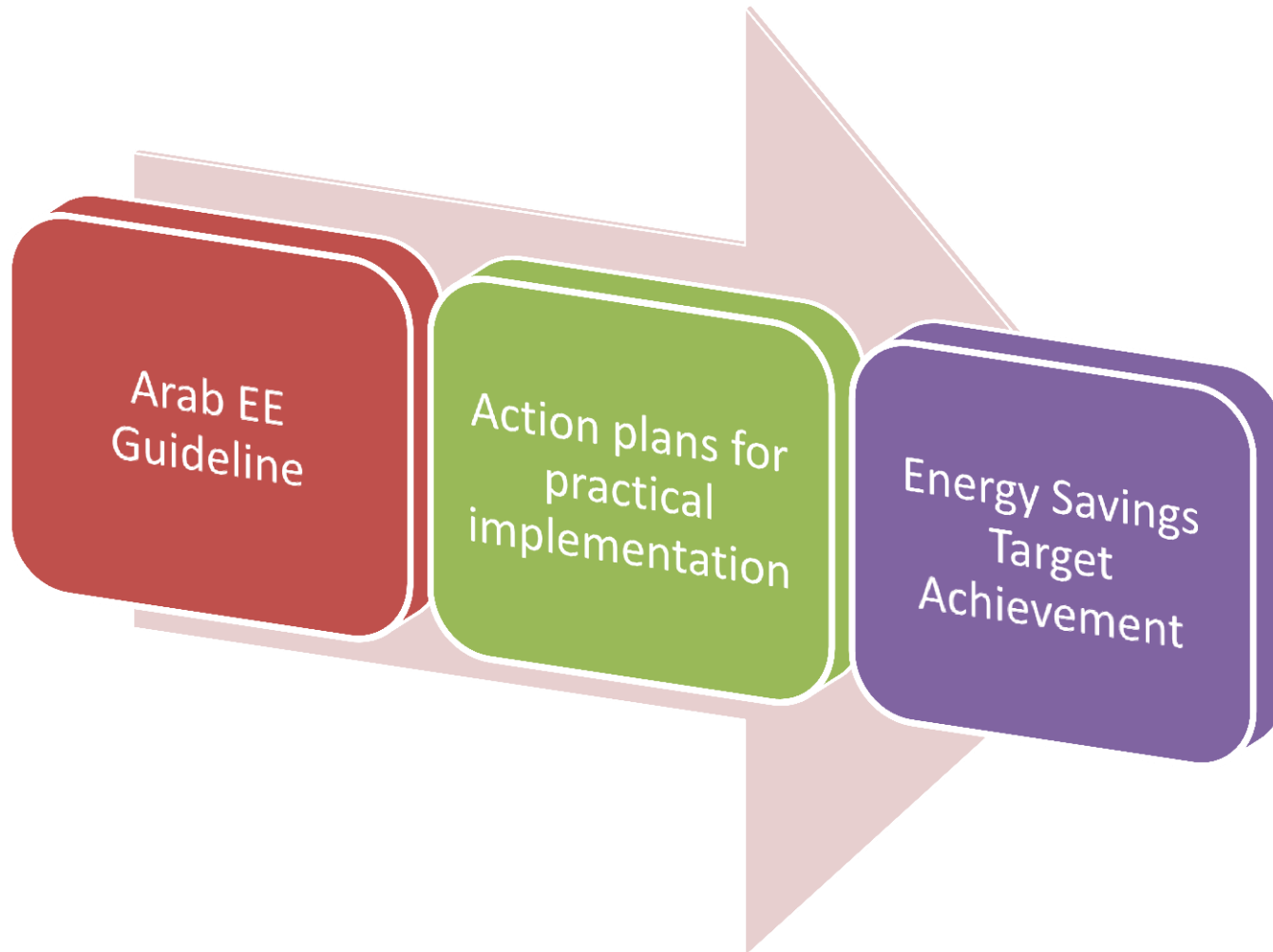
# Arab EE Guideline



The Arab End Use Electricity Efficiency Improvement and Conversation Guideline were approved by the executive office of the Arab Ministerial Council of Electricity in the decision no. 195 taken in the 26th meeting held in 23 November 2010.



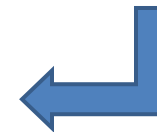
# *Policy Cycle within the Arab EE Guideline*



# Where we are ...?



11 NEEAPS  
5 Drafts  
2 Intentions  
4 Evaluation Reports



Arab EE Guideline update

EE Reporting Guideline

# RE Polices Long Term Approach

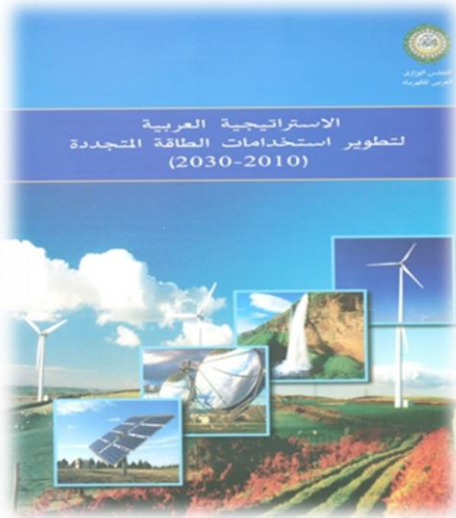


- *Scaling up the regional strategic planning for renewable energy through the incorporation of the national efforts towards a regional RE target.*
- *Promote the enabling factors for systematic involvement of the private sector.*

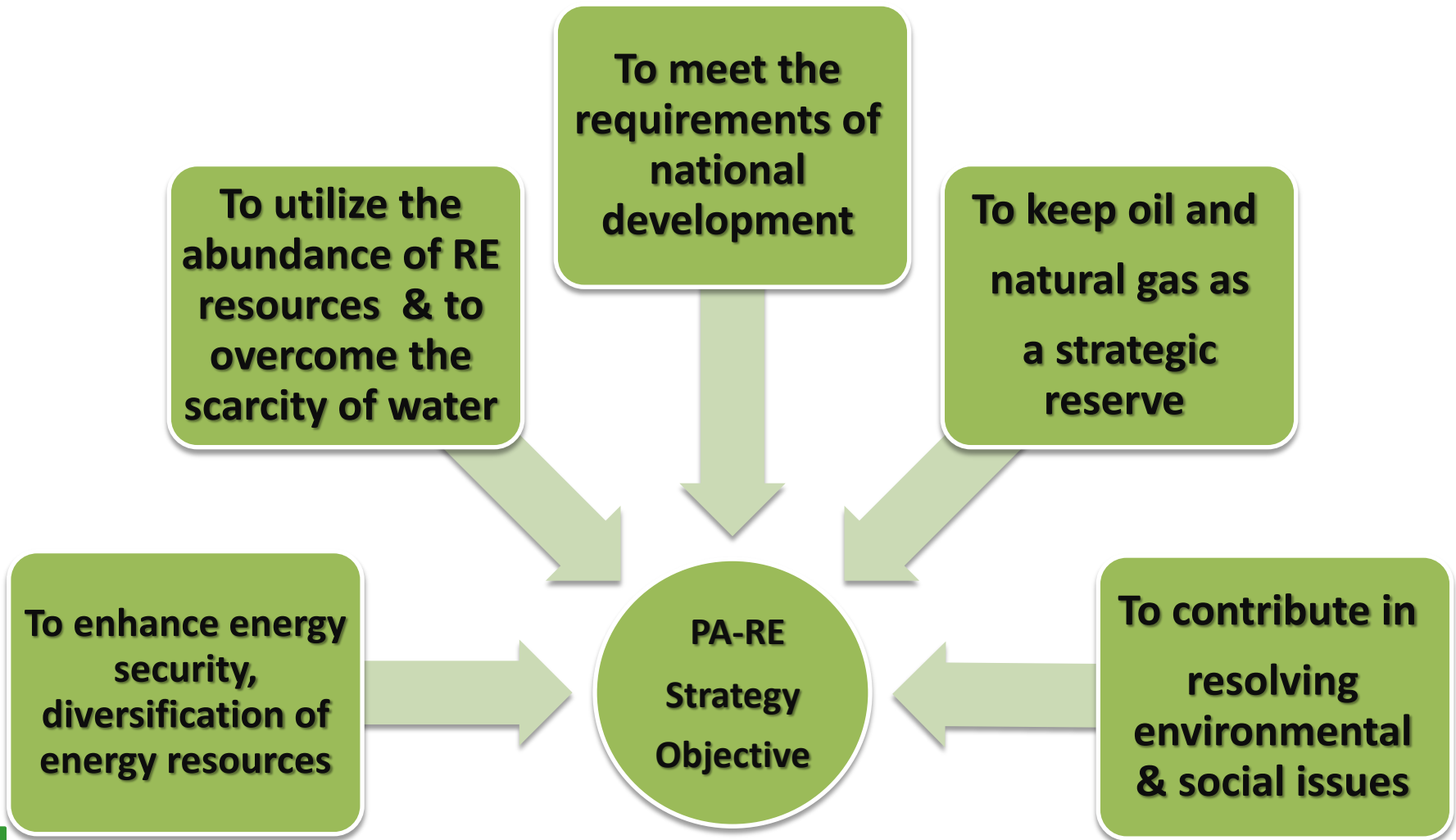
# The Pan-Arab Renewable Energy Strategy 2010-2030



**The Pan-Arab RE Strategy was endorsed by the Arab Economic and Social Development Summit in Riyadh in 2013**

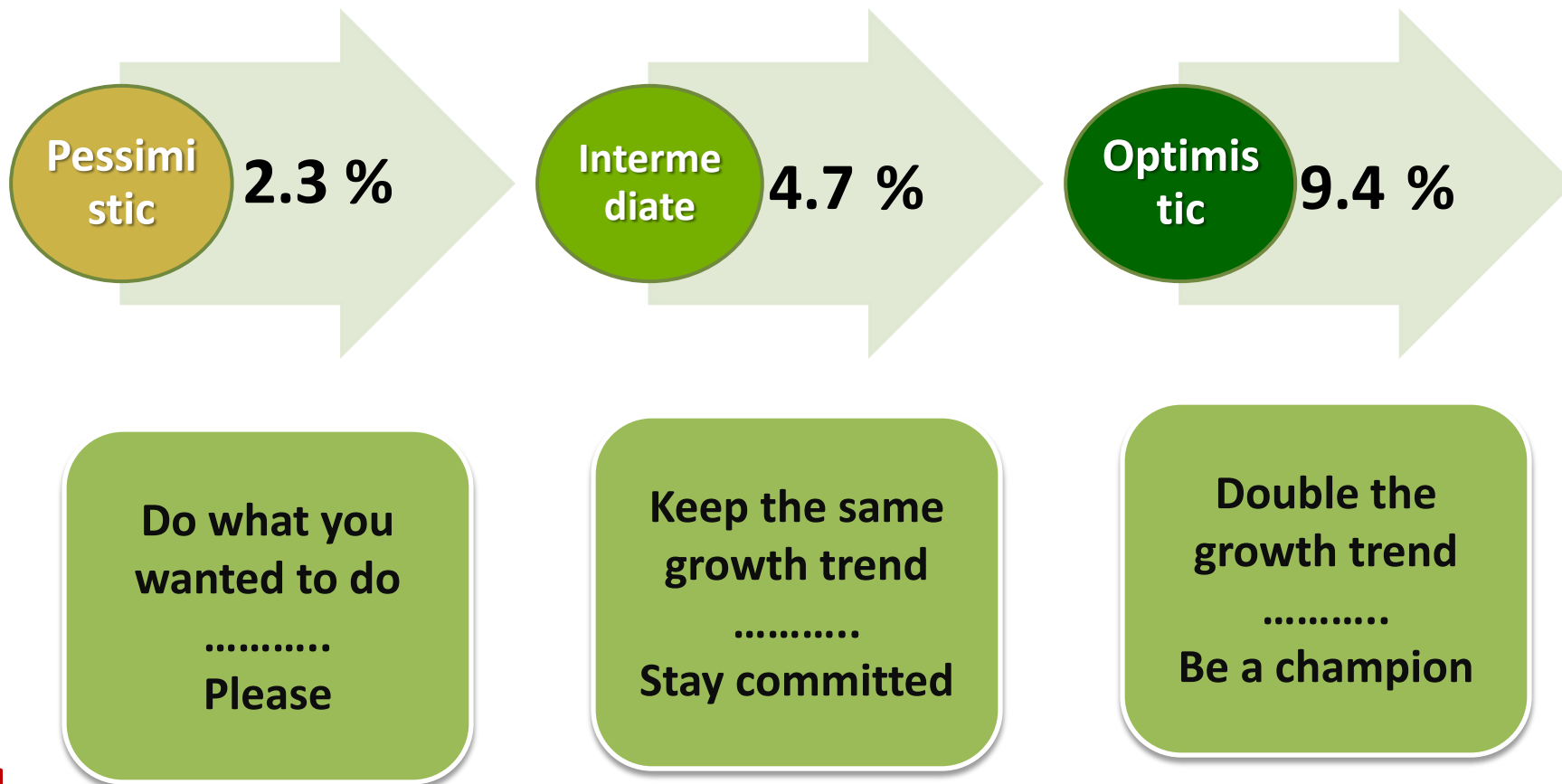


# The Pan-Arab RE Strategy Objectives





# Scenarios of the Strategy



# *LAS Role....*



**Reporting  
methodology**

**Monitoring  
tool**

**Political  
Umbrella**

**Testing  
mechanism**

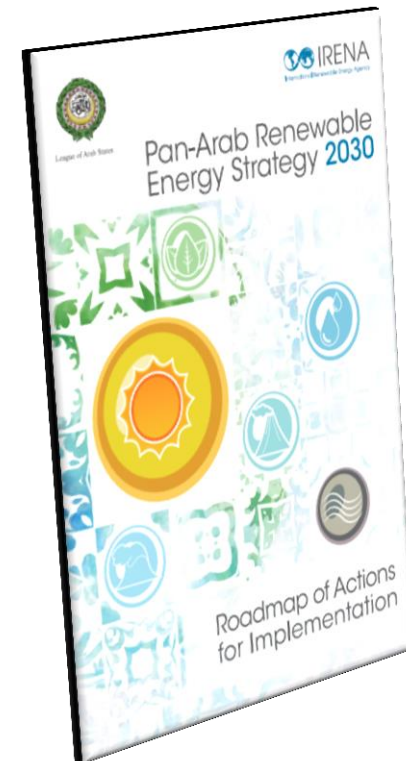
**Regional  
platform**

**Technical  
Assistance**

# The Strategy...Implementation tools



## The Way Toward the Implementation of the Road map



**Developing a Renewable  
Energy Road Map of  
Action for Arab Countries**

# The Strategy...Implementation tools



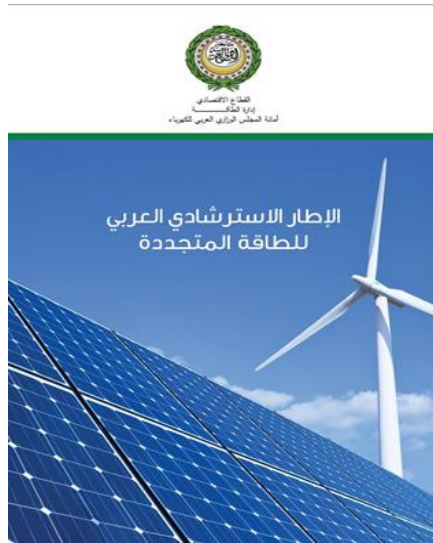
## The Way Toward the Implementation of the Road map - Outcomes

1	Support Arab states in designing their respective National RE Plans.
2	Capacity development project
3	Untapped renewable energy options
4	Grid integration initiative
5	RE administrative and spatial planning governance.
6	Improving financial cooperation in the Arab region
7	Local manufacturing and services

# The Strategy...Implementation tools

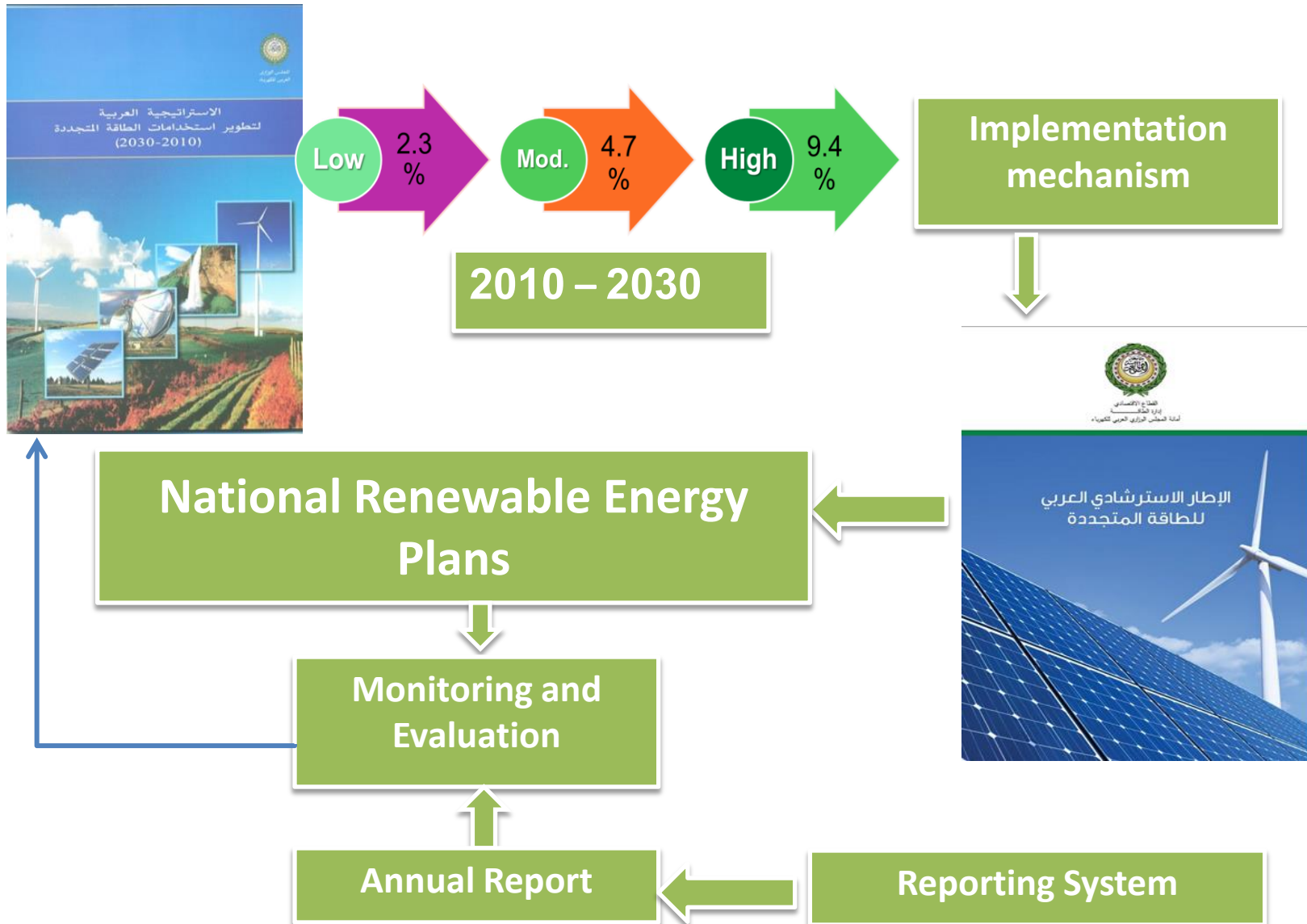


## *Arab Renewable Energy Framework*



**The Ex. Br. of the AMCE Approved the AREF in it's 30th meeting held on the 16th of September 2014**

# The Strategy...Implementation tools





# Information System



## *Long Term Approach:*

The development of an integrated set of components for collecting, storing, and processing data and for delivering information, knowledge, and digital products.



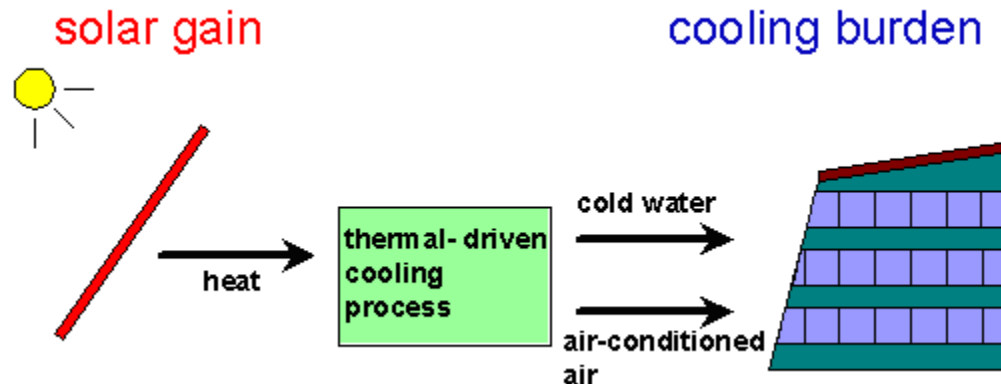
# Technologies under Focus



## *Certification and Standardization for SWH*



## *Promoting Solar Cooling technology*





# Area of intervention and activities of ED



**Policy and Regulatory Frameworks**



**Integration Projects**



**Arab-Regional and International Coop**

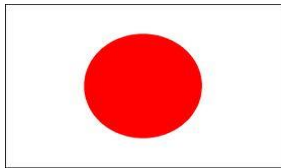


**Data Bases and Information Systems**



**Events**

# Regional and International Cooperation



Implemented by  
**giz**  
Energie-Technologie-  
Erkenntnis  
Cooperation



Union for the Mediterranean  
Union pour la Méditerranée  
الإتحاد من أجل المتوسط

# Focus on Cooperation with Europe



EU Funded Regional Energy Projects



Union for the Mediterranean  
Union pour la Méditerranée  
الإتحاد من أجل المتوسط

Regional Cooperation

Bilateral Cooperation



Implemented by  
**giz** Deutsche Gesellschaft  
für Internationale  
Zusammenarbeit (GIZ) GmbH



Cooperation with Euro-Arab Org.



# Meetings and Events



## Internal Meetings

- AMCE Executive Office Meeting
- Experts Committee Meeting
- Group Meeting
- SHAMCI network meeting

## Arab RE&EE Forum



[www.arfree.net](http://www.arfree.net)

## Arab EE Day



## Events

- Arab Forum on Renewable Energy and EE
- Arab EE Day
- Arab – China Energy Forum



[www.arabeeday.net](http://www.arabeeday.net)

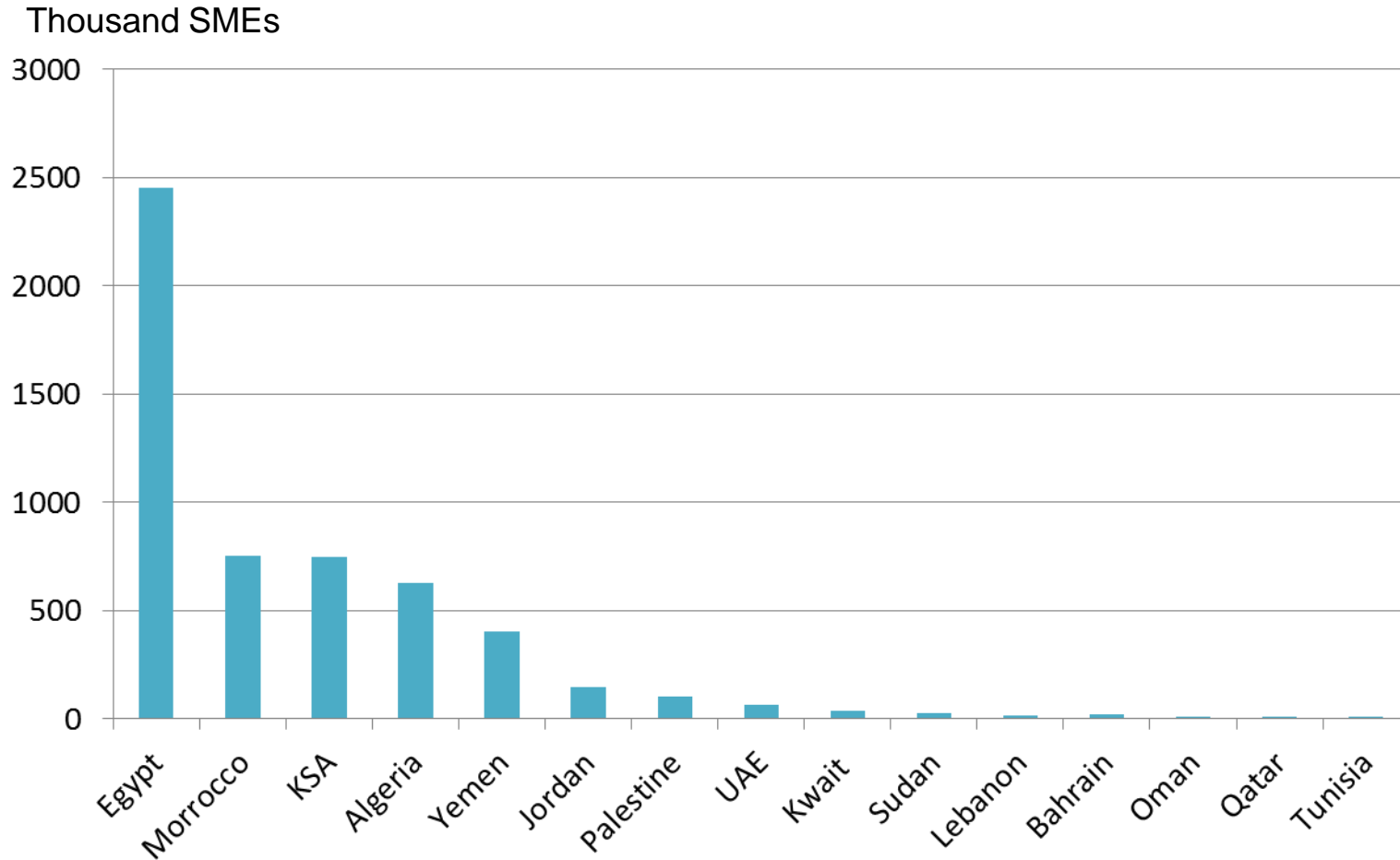


## Workshops and Training

- AREF and NREAP workshop
- NEEAP regional annual workshop
- Industrial value chain of RE
- Electricity Sector Implications on Environment.



# Small, Medium and Micro Enterprises in the Arab states.

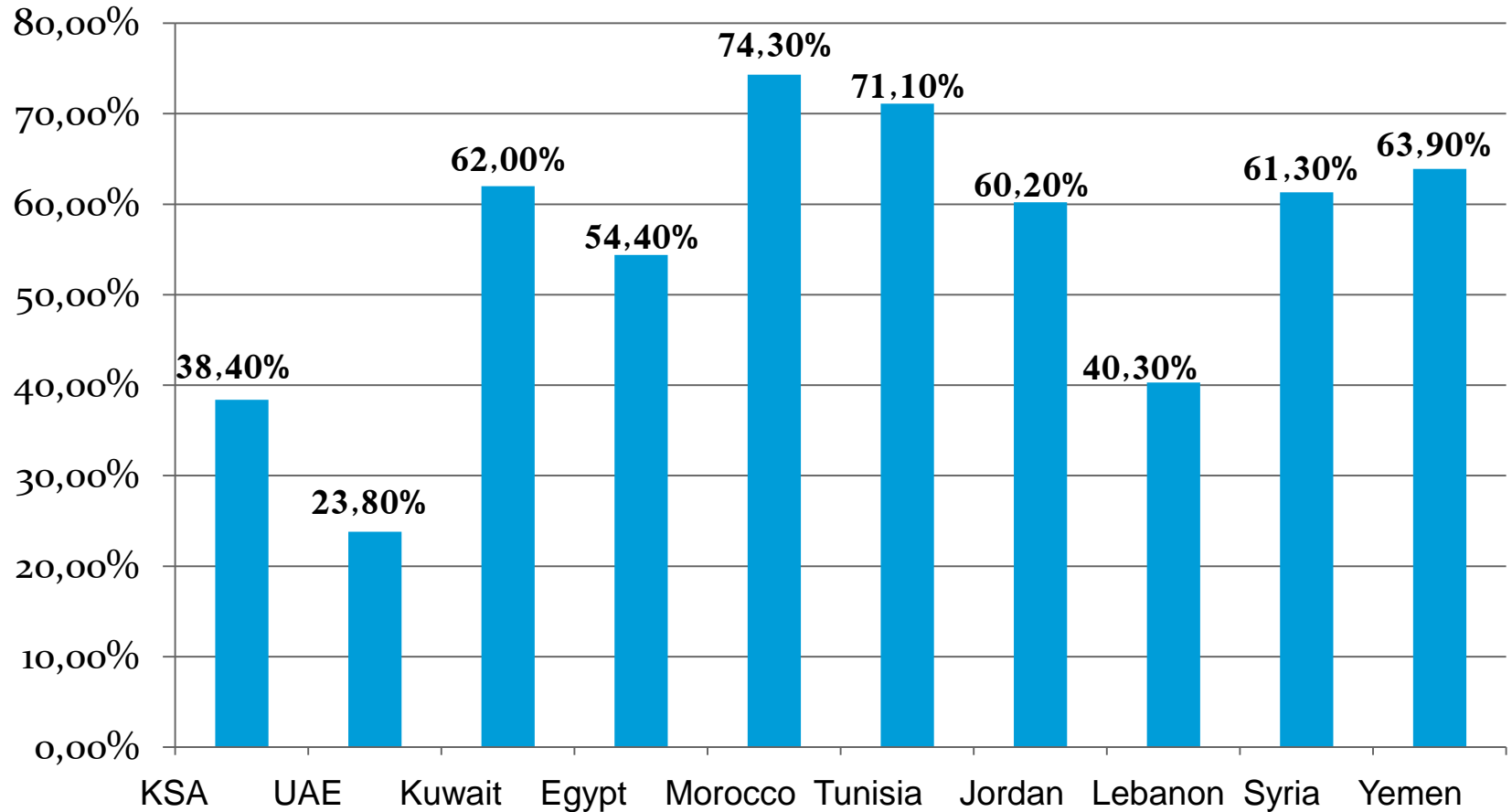


Source, IFC Data Base, 2012



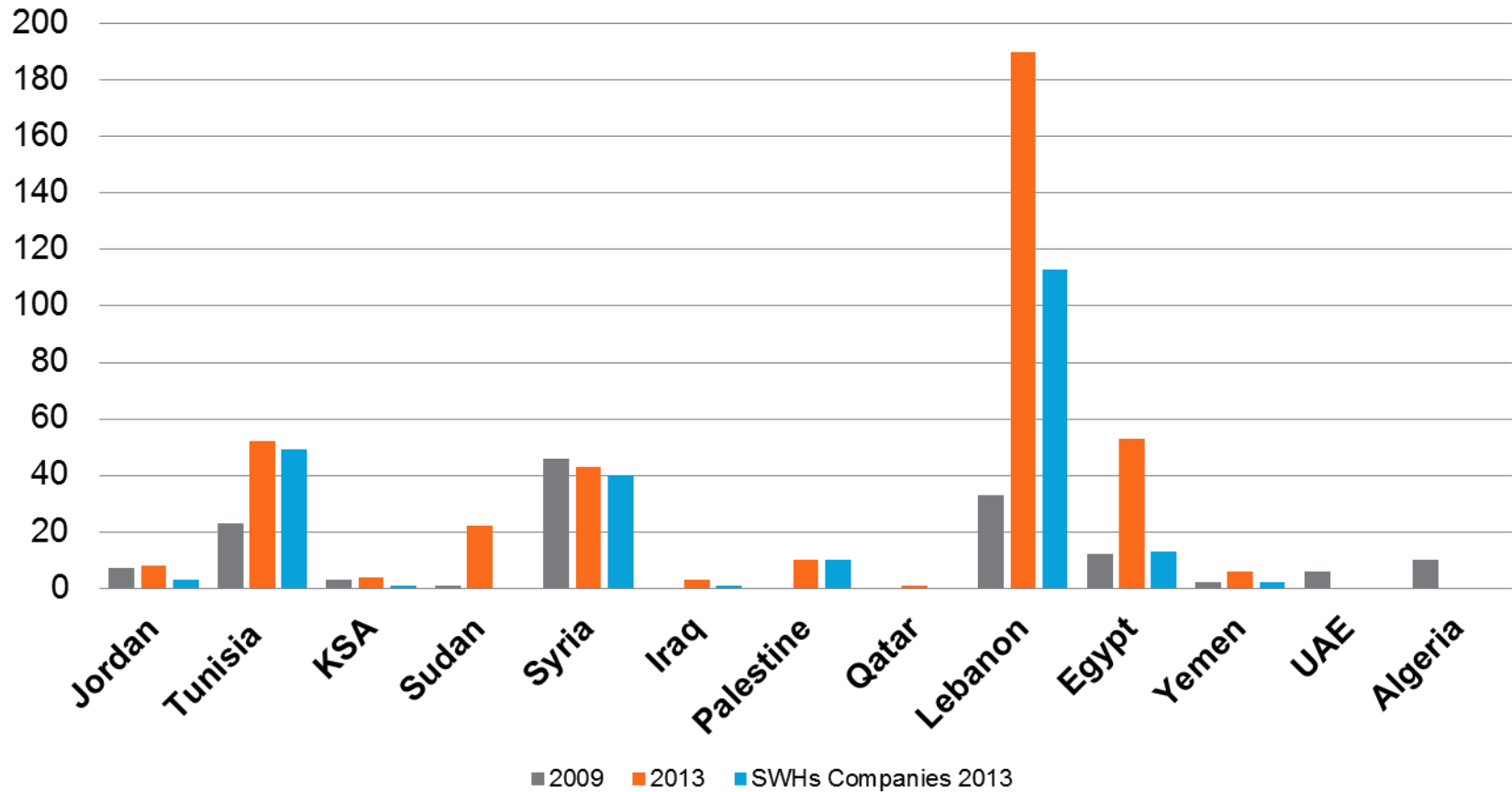


## Percentage of employment in small projects compared to the industry



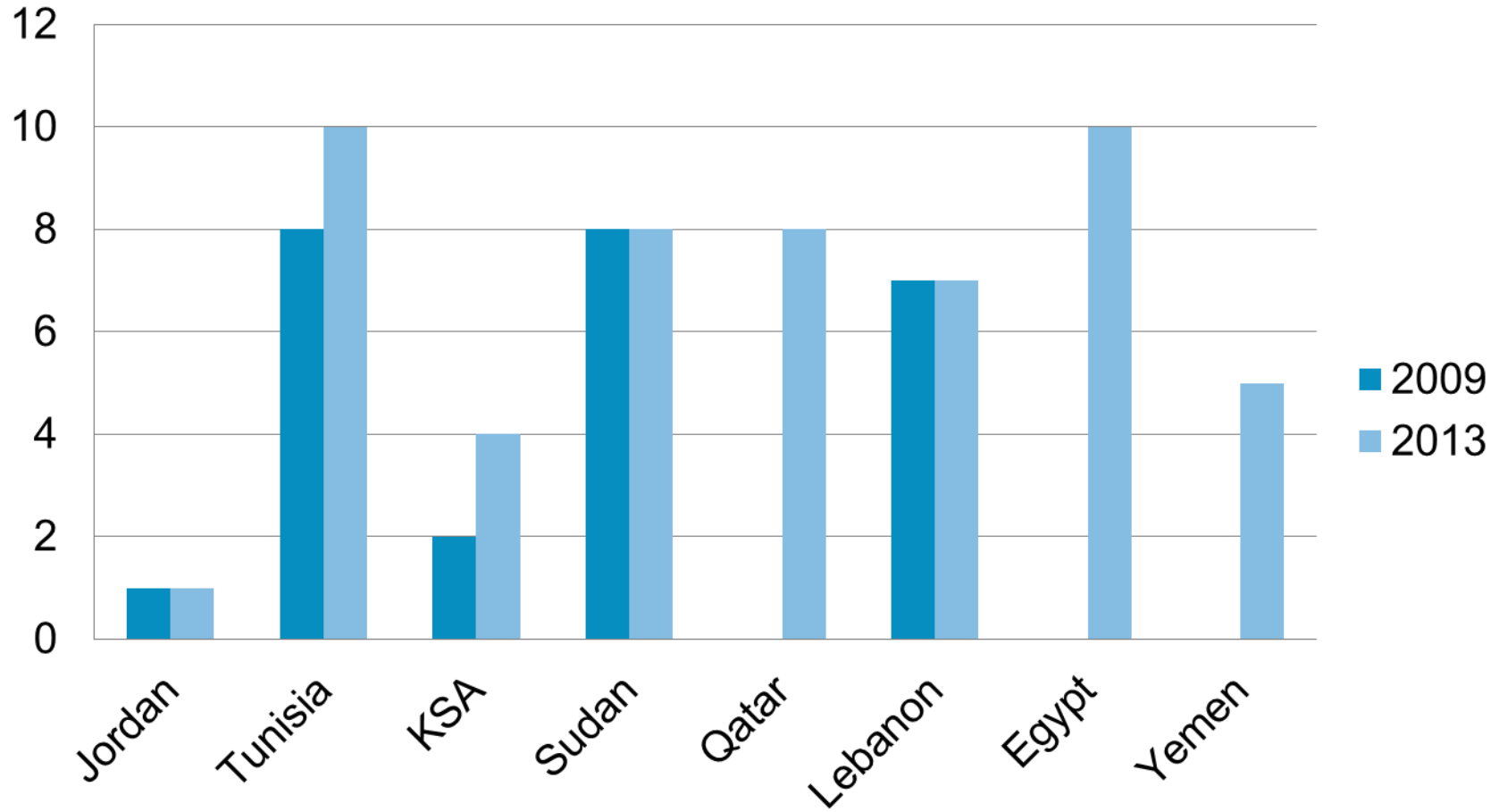


## Number Of RE&EE SMEs





# NUMBER OF ESCOs





# المنتدى العربي الثاني للطاقة المتجددة وكفاءة الطاقة

## أهم توصيات الصادرة عن المنتدى:

- تكامل وتقارب سياسات الطاقة والصناعة والاستثمار والبيئة بما يضمن تهيئة مناخ أعمال جاذب للاستثمار يعتمد على أطر عمل تتسم بالشفافية،
- تطوير أدوات تمويل مبتكرة تؤدي إلى توزيع المخاطر بشكل أكثر توازنا بين جميع المتعاملين في سوق الاقراض،
- تنمية القدرات الوطنية، ونشر الوعي العام وثقافة الأعمال الخاصة بين الشباب،
- تطوير خدمات تقديم المعلومات وتقييم الجدارة الائتمانية للمقترضين،
- تخصيص برامج مساعدة تقدم الدعم الفني واللوجيستي للمؤسسات الصغيرة والمتوسطة بما في ذلك توفير دليل ارشادي لصغار المستثمرين.



## المنتدى العربي الثاني للطاقة المتجددة وكفاءة الطاقة

- تحسين النفاذ إلى المعلومات والمعرفة اعتماداً على تقنيات الاتصالات الحديثة،
- تشجيع الشفافية والإفصاح في قطاع المال والأعمال العربي،
- الاستفادة من مصادر التمويل المتاحة لدى مؤسسات التمويل العربية المختلفة، والصناديق الإقليمية المخصصة للصناعات الصغرى والمتوسطة،
- التنسيق على الصعيد الإقليمي من خلال المنظمات القائمة والفاعلة بما يعزز تبادل الخبرات والخروج بإجراءات تكاملية تمكن المؤسسات الصغيرة والمتوسطة من المساهمة في تحقيق أهداف الاستراتيجية العربية للطاقة المتجددة بشكل خاص وأهداف التنمية المستدامة بشكل خاص وأهداف التنمية المستدامة بشكل عام،
- العمل على وضع آليات لبلورة الشراكة بين المؤسسات الصغرى والمتوسطة من القطاع الخاص والهيئات الحكومية من جهة والمؤسسات الكبيرة من جهة أخرى،



***Thank You***

***Energy Department***

***League of Arab States***