Pan Arab Strategy for the Development of Renewable Energy
(2010-2030)

League of Arab States
Energy Department
The Arab World in Numbers

- 365 million inhabitants
  - 5.2% of the world
- Area: 14.2 m sq. Km
  - 10.2% of the world
- GDP: $2.5 trillion

Energy:
- Oil reserves: 57.5%
- NG reserves: 28.2%

RE Energy
- 2013: 64 projects
  - (total 6 Giga watt)
- New Investments: $1.9b
Arab countries categorization in terms of Energy Independency

Net Energy Importing Countries
- Jordan
- Lebanon
- Morocco
- Tunisia
- Palestine

Low independency Exporting Countries
- Bahrain
- Egypt
- Oman
- Syria
- Yemen
- Sudan

High independency Exporting Countries
- Algeria
- Iraq
- Kuwait
- Libya
- Qatar
- Saudi Arabia
- UAE
<table>
<thead>
<tr>
<th>Country</th>
<th>Declared Targets</th>
<th>Scope</th>
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</thead>
<tbody>
<tr>
<td>Palestine</td>
<td>10% of electric power</td>
<td>2020</td>
</tr>
<tr>
<td>Tunisia</td>
<td>11% of electric power</td>
<td>2016</td>
</tr>
<tr>
<td>Jordon</td>
<td>10% of primary energy</td>
<td>2020</td>
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<tr>
<td>Oman</td>
<td>10% of electric power</td>
<td>2020</td>
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<tr>
<td>Lebanon</td>
<td>12% the needs for electric and thermal production</td>
<td>2020</td>
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<tr>
<td>Libya</td>
<td>10% of electric power</td>
<td>2020</td>
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<tr>
<td>Egypt</td>
<td>20% of electric power</td>
<td>2020</td>
</tr>
<tr>
<td>Morocco</td>
<td>42% of electric power</td>
<td>2020</td>
</tr>
<tr>
<td>Yemen</td>
<td>15% of electric power</td>
<td>2020</td>
</tr>
<tr>
<td>Emirates</td>
<td>7% of electric power</td>
<td>2030</td>
</tr>
<tr>
<td>Algeria</td>
<td>35% of electric power</td>
<td>2030</td>
</tr>
<tr>
<td>KSA</td>
<td>50% of installed capacity (RE + Nuc)</td>
<td>2032</td>
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</table>
The Role of the League of Arab States

- The Arab League’s Strategy as highlighted in the framework for the development of renewable Energy is to develop the uses of renewable energy and the importance of coordinating efforts between the Arab countries.

- A unified perspective towards energy issues. The implementation of regional and international initiatives that set specific goals for the contribution of renewable energy as an integral percentage of the Arab energy system.
Pan Arab Strategy Framework

1. Present current situation of electricity sector in the Arab World.

2. Projection of the renewable energy resource contribution to the overall energy mix in the Arab States by 2020.

3. Provide incentives for the Private and public sector in the field of Renewable.

4. Identifying the criteria for best practices of renewable energy.
Goals of the PA-RE Strategy (2010-2030) .. Why?

- To enhance energy security, diversification of energy resources
- To meet the requirements of National development
- To utilize the abundance of RE resources & to overcome the scarcity of water
- To keep oil and natural gas as a strategic reserve
- To contribute in resolving environmental & social issues
The PA-RE Strategy (2010-2030) .. content

- The Target of the PA-RE Strategy & Application Axes
- Strategy Activation Procedures
- The Performance Indicators & the Expected outcome of the Strategy

Conclusion & 2 annexes
Target: to increase the share of RE in the Energy mix

Time Frame: 2010-2030

Scenarios:

Low: 2.3%
Moderate: 4.7%
High: 9.4%
Pan Arab Strategy - Partners

- The Arab Secretariat of the Arab Ministerial Council for Electricity (Department of Energy) in coordination with Arab experts contributed in the issuance of the Arab Strategy.


- The strategy designed to realize its objective 2010-2030, was finally approved and ratified by the Arab Economic and Social Summit. (Riyadh, Saudi Arabia)
Resolution no. 31 (Riyadh- 21-22 /1/2013)

- Approving the Arab strategy for the development of RE uses (2010-2030) as a framework for the joint Arab action in the RE field and inviting Member states to take into consideration what was included in the Arab strategy document when developing their national RE strategies.

- Assigning the AMCE to develop an executive work program for the strategy implementation and submitting a periodical report to the Arab Economic & Social Development Summit on the progress achieved.

- Requesting the international, regional, Arab and national finance institutions and funds to provide the financial support required for the implementation of renewable energy projects.

- Inviting the private sector to contribute to the promotion of using RE technologies in the Arab countries and investing in their projects as a key partner.
The Target of the PA-RE Strategy & Application Axes

- Policies and legislations on the national level
- Strengthening regional and international cooperation mechanisms
- More involvement of the private sector in developing renewable energy projects
Provide Incentives in Public and Private Sectors of RE

Adopting national and regional policies to provide a good environment to develop renewable energy technology.

Exchange of expertise, promoting a mechanism for cooperation regionally and internationally and raising awareness regionally with the available technological potential of renewable energy systems.

Encouraging the private sector to participate in the development of renewable energy systems and best practices and supporting scientific research and implementation in this field which will lead to the availability of renewable energy equipment at affordable prices.
The Arab RE Framework

- Art. 1 • Subject matter and scope
- Art. 2 • National Renewable Energy Action Plans
- Art. 3 • Joint projects between Arab States and third parties
- Art. 4 • Administrative procedures, regulations and codes
- Art. 5 • Information and training
- Art. 6 • Access to and operation of the grid
- Art. 7 • Reporting by the Arab States
- • Information platform
The National RE Action Plans

1. Summary of national policy for RE

2. Expectations of the final energy consumption until 2020 ; 2030

3. RE targets & growth paths

4. Measures to achieve targets

5. Assessments
Policy Cycle within the Arab RE Strategy

PA - RE Strategy

AREF

NREAP's

Progress Reports & RE Development
Conclusion

• We need to place specific mechanism in place for monitoring at every stage of the implementation.

• Guarantee the continuous updating of the strategy in light of the future changes in the renewable energy field.

• Keeping the Arab Ministerial council of electricity involved and updated with every move.
The urging need for this Arab Strategy requires an equal urgency of collective efforts from all Arab Countries to implement because of its direct effect on the Arab citizen and to capitalize on the diversification of energy sources in the Arab World. This will have a positive impact for the economies of the Arab World which will surpass just the idea of obtaining clean energy.
Thank You

Khalid Hosny
Energy Department
League of Arab States