Renewable Energy Country Profile

Energy Supply and Demand – Current Trends

- Production (billion barrels oil per year)
- Consumption (billion barrels oil per year)
- Export net (billion barrels oil per year)
- Population (millions)

Current Installed Capacity

- Wind
- PV
- CSP
- Hydro

Wind | PV | CSP | Hydro | Total RE | Total all Energy
--- | --- | --- | --- | --- | ---
MW | 0 | 0 | 25 | 228 | 253 | 11390

RE Targets - Year 2030

- Target Date
- Total RE
- Total all Energy

Wind | PV | CSP | Total | Target Date
--- | --- | --- | --- | ---
MW | 10 | 6 | 25 | 41 | 2013
MW | 50 | 182 | 325 | 557 | 2015
MW | 270 | 831 | 1500 | 2601 | 2020
MW | 2000 | 2800 | 7200 | 12000 | 2030

Graph developed by B. Samborsky.
**Finance and Investment**

- RE fund has been established by executive decree No. 11-423 (December 2011).
- No policy of providing financial guarantee to private investors to ensure payment under power purchase agreement.
- No customs duty or internal tax benefits for renewable energy projects.

**Supporting Policies**

- Public competitive bidding for large scale private RE projects.
- Law No 02-01 on electricity and distribution of gas (2002) ensures the purchase of energy from renewable sources.
- Feed-in Tariffs adopted by law No. 02-01 (2002);
- Decree No. 04-92 on the diversification of power generating costs (2004) but remain not operational.
- No net-metering policy for small scale RE projects.

**Grid Access**

- Priority access to RE is granted by executive decree No. 06-428 of 26 November 2006, executive decree No. 06-429 of 26 November 2006, and the order of 21/02/2008.
- Renewable energy grid code is under preparation.
- No detailed grid map for designated renewable energy sites.
Law No 02-01 (2002) on electricity and distribution of gas authorizes private generation of power from RE. Today total generation capacity of conventional electricity by IPPs constitutes 2886 MW.

- No IPPs producing RE exist yet.
- Self-production (auto-producers) of power from RE is permitted by the same law; however there is still no decree specifying the conditions of sale of excess electricity to the grid. The decree is under preparation.
- No RE auto-producers exist in practice.

Institutional Support

- The New Energy of Algeria (NEAL) is responsible for promoting and supporting RE.
- No detailed wind atlas is published.
- Land for large-scale wind projects is not yet allocated for private development.
- Land for large-scale solar projects is not allocated yet for private development.
- Detailed solar atlas is published. Based on this atlas the following areas have been identified for the deployment of large-scale solar projects.

<table>
<thead>
<tr>
<th>Specific Sites Identified</th>
<th>Site Specific Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tammanraset</td>
<td>2660 kWh/m²</td>
</tr>
<tr>
<td>Algiers</td>
<td>2000 kWh/m²</td>
</tr>
<tr>
<td>Djanet</td>
<td>2620 kWh/m²</td>
</tr>
<tr>
<td>Ghardala</td>
<td>2560 kWh/m²</td>
</tr>
</tbody>
</table>

Grid Interconnections

<table>
<thead>
<tr>
<th>Country</th>
<th>Length (km)</th>
<th>Voltage (KV)</th>
<th>Capacity (MW)</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tunisia</td>
<td>35.5</td>
<td>90</td>
<td>74</td>
<td>In operation</td>
</tr>
<tr>
<td></td>
<td>60</td>
<td>90</td>
<td>63</td>
<td>In operation</td>
</tr>
<tr>
<td></td>
<td>65</td>
<td>150</td>
<td>14</td>
<td>In operation</td>
</tr>
<tr>
<td></td>
<td>60</td>
<td>225</td>
<td>217</td>
<td>In operation</td>
</tr>
<tr>
<td></td>
<td>160</td>
<td>400</td>
<td>961</td>
<td>Under construction</td>
</tr>
<tr>
<td>Morocco</td>
<td>49</td>
<td>225</td>
<td>235</td>
<td>In operation</td>
</tr>
<tr>
<td></td>
<td>67</td>
<td>225</td>
<td>235</td>
<td>In operation</td>
</tr>
<tr>
<td></td>
<td>230</td>
<td>400</td>
<td>2400</td>
<td>In operation</td>
</tr>
</tbody>
</table>
# Projects

<table>
<thead>
<tr>
<th>Wind</th>
<th>CSP</th>
<th>Geothermal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>In Operation</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Project: SPP I Hassi Rmel  
Capacity: 25 MW  
Developer: Public (NEAL)  
In operation since: 2011 | | |
| **Under Construction** | | |
| Project: Kabertene Wind Farm - Adrar city  
Capacity: 10.2 MW  
Developer: SONELGAZ | Project: Geothermal  
Capacity: 5 MW  
Developer: Public | |
| **In Pipeline** | | |
| Project: Khenchela  
Capacity: 20 MW  
Developer: Public  
Project: Naama  
Capacity: 20 MW  
Developer: Public  
Project: Undefined  
Capacity: 170 MW | Project: SPP II Meghair  
Capacity: 80 MW  
Project: SPP III Naama  
Capacity: 70 MW  
Project: SPP IV Hassi Rmel  
Capacity: 70 MW  
Project: El Oued Project  
Capacity: 150 MW | |

## Projects Percentage of Total Capacity

<table>
<thead>
<tr>
<th>In Operation</th>
<th>Under Construction</th>
<th>In Pipeline</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.6%</td>
<td>95.4%</td>
<td>6.3%</td>
</tr>
<tr>
<td>93.7%</td>
<td></td>
<td>100%</td>
</tr>
</tbody>
</table>

Featured Partner: Dii

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