Global Solar and Wind Atlas
Introduction

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Why evaluating potentials?

- Resource mapping
- Technical and economical Potentials
- Technology deployment scenarios
- Strategies for market development
- Political and financial Instruments
- Investments
- Socio-economic and policy data
- Technology data and learning
- Best practices

Global Atlas - Clean Energy Ministerial

Available Resources

Which technologies are feasible?

How can RE contribute to the energy system?

How to get them into the market? Where to start?

Legislation, incentives

- A truly international initiative to jointly develop the reference for Solar and Wind potentials
- Building on the existing systems and databases and available knowledge

**Statement on the Global Renewable Energy Atlas**

**Partner organisations**

**Research Institutes**

**Organisations**

**Private companies**
An open architecture

Interface 2012: basic features

DLR / NREL

Catalog

MINES ParisTech

Initial datasets 2012: contributing institutes

Source | Shared by | Scope  
--- | --- | ---  
SWERA Archive | NREL | Solar / Wind  
HelloClim 1 | Mines ParisTech | Solar  
HelloClim 3 (average monthly mean) | Mines ParisTech | Solar  
PACA high-resolution atlas | Mines ParisTech | Solar  
NASA solar dataset | NREL | Solar  
Solar Med Atlas | DLR | Solar  
Solar GIS (annual values, monthly averages) | Geomodel | Solar  
CENER dataset | CENER | Solar / Wind  
Reanalysis data | DTU Wind | Wind  
Complementary datasets | Geomodel | Terrain, population, landcover  
Complementary datasets | TBD | Grid infrastructure, roads  

2012: inviting countries to propose their national atlases
<table>
<thead>
<tr>
<th>Timeline</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>End 2011</td>
<td>Prototype</td>
</tr>
<tr>
<td>January 2012</td>
<td>First end user workshop</td>
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<tr>
<td>CEM 25 April 2012</td>
<td>Enhanced partnership</td>
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<tr>
<td>Rio+20</td>
<td>High level event on the Global Atlas</td>
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<tr>
<td>IRENA Council Oct. 2012</td>
<td>End user group review</td>
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<tr>
<td>IRENA Assembly Jan. 2013</td>
<td>Operational system demo.</td>
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<tr>
<td>From 2012</td>
<td>Adding online analysis tools</td>
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<tr>
<td>From 2012</td>
<td>Adding socio-economic aspects (costs, jobs)</td>
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<tr>
<td>2012</td>
<td>Adding bioenergy, hydropower</td>
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ESMAP contribution

- Global atlas – preliminary screening in support to decision making, initiating further investigations
  - Reliable data, and level of confidence
  - Preliminary analysis highlighting areas of possible interest

- Needs to be followed up by local analysis
  - Measurement campaigns
  - Collection of ancillary information
  - Using state of the art methods, standards
  - Consolidating the information through a central repository
  - Providing a one-stop-shop for financing
  - Ensuring the information is eventually used for decision-making
Thank you for your attention

http://youtu.be/40ezihCzJLA

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