Global Conversation

Energy Policy – a global move to renewables and energy efficiency

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The World is still Fossil Fuel Dominated

Source: WEO, 2014 (to be updated in November when WEO, 2015 is published).
However, some electricity systems are rapidly changing because of new technologies, changing economics, and changing social preferences.

The cost of rooftop PV systems in Germany (Fhg, 2015)
Deployment of renewables is happening much quicker than expected

Solar PV deployment in the UK compared to expectations

Current deployment now c. 8 GW
(source: Cornwall Energy)
Models are often wrong but predictions for technology take-up is staggering, this is again PV

IEA Solar Technology Roadmap predictions for 2050 (IEA, 2014)
Already operation of our electricity systems is changing because of renewables

Source: Agora’s 12 Insights from Germany’s Energiewende
Electricity systems are likely to be increasingly flexible, integrated and decentralised

Agora’s The Danish Experience of Integrating Variable Renewable Energy

<table>
<thead>
<tr>
<th>Source</th>
<th>Power (MW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central power stations</td>
<td>667</td>
</tr>
<tr>
<td>Local CHP plants</td>
<td>377</td>
</tr>
<tr>
<td>Wind turbines</td>
<td>3,911</td>
</tr>
<tr>
<td>Solar cells</td>
<td>89</td>
</tr>
<tr>
<td>Net exchange export</td>
<td>437</td>
</tr>
<tr>
<td>Electricity consumption</td>
<td>4,606</td>
</tr>
<tr>
<td>CO₂ emissions</td>
<td>120 g/kWh</td>
</tr>
</tbody>
</table>

**Figure 7**

Snapshot of the Danish power system on 2 June 2015 at 13:17
Changes are already having a major existential impact on European Utilities leading to restructuring
Public discourse on energy policy has changed

CLIMATE CHANGE AND PRESIDENT OBAMA'S ACTION PLAN

THE UNITED STATES IS LEADING GLOBAL EFFORTS TO ADDRESS THE THREAT OF CLIMATE CHANGE. PRESIDENT OBAMA IS TAKING THE BIGGEST STEP YET TO COMBAT CLIMATE CHANGE BY FINALIZING AMERICA'S CLEAN POWER PLAN, WHICH SETS THE FIRST-EVER CARBON POLLUTION STANDARDS FOR POWER PLANTS.

International Islamic Climate Change  

Islamic Declaration on Global Climate Change  
In the name of Allah, Most Merciful, Most Compassionate

PREAMBLE

- God – Whom we know as Allah – has created the universe in all its diversity, richness and vitality: the stars, the sun and moon, the earth and all its communities of living beings. All these reflect and manifest the boundless glory and mercy of their Creator. All created beings by nature serve and glorify their Maker, all bow to their Lord’s will. We human beings are created to serve the Lord of all beings, to work the greatest good we can for all the species, individuals, and generations of God’s creatures.

A New Framework for China’s Power Sector  

The Chinese government has just finalized Deepening Reform of the Power Sector, a policy document co-signed by the Central Committee of the Communist Party and the State Council. The Chinese media have anticipated this document for months, and billed it as a follow-up to the last major power