The Top Ten Global Energy Trends

Description: The Top Ten Global Energy Trends

Summary

Global Markets Direct's Report on the Top Ten Global Energy Trends is an essential source for top-level energy industry information and analyses. The report provides overview and in-depth analysis of ten top trends in global energy sector. It includes the conventional and non-conventional energy sector and addresses politico-economic trends in the global energy landscape. The report also provides historical and forecasted statistics in order to reach the key findings relating to the sub-segments in energy industry.

Scope

The report covers major supply and consumption trends, potential changes in the energy industry, issues concerning energy security, major development in refining sector, electricity generation trends, key developments in alternative energy sector, and energy related carbon emission and carbon trading. Given the dynamic politico-economic environment the in global energy sector, the perspectives and findings in the report will contribute to shaping market strategies of energy companies.

The key analysis in the report includes:

- Hydrocarbon consumption and economic growth.
- Energy market volatility and price fluctuation.
- Challenges to energy supply and production facilities.
- The role of the Middle East, Latin America, Africa and Russia set to grow in the world energy market.
- Natural gas as a preferred fuel in the years ahead.
- Refining capacity in traditional petroleum.
- Coal consumption, higher investment for advanced technology.
- Global electricity consumption and production.
- The share of alternative sources in electricity production.
- Wind energy will be the preferred source in grid connected power.
- Solar will play a significant role in remote areas of developing countries.
- Investments in the renewable energy sector.
- Carbon emissions and carbon trading.

Reasons to buy

- Gain interesting insights into global energy market.
- Benefit from rigorous primary and secondary research methods used by Global Market Direct, conclusions verified by industry experts and reliable data cross verified with the original sources.
- Fine tune the market strategies of companies in the global energy business.
- Understand the key facts relating to energy industry and potential changes in the coming years.
- Understand the potential challenges and prospects in various energy segments such as conventional and non-conventional arena.
- Analyze energy policy in energy producing and exporting countries worldwide.

Contents:

1 2
1.1 List of Tables 5
1.2 List of Figures 6
2 Introduction 8
2.1 What Is This Report About? 8
2.2 GMD Report Coverage 8
2.3 Definitions 8
3 Executive Summary 9
3.1 Global Energy Consumption to Grow 9
3.2 Energy Market Volatility to Continue 9
3.3 Traditionally Resource Rich Regions will Continue to be Major Suppliers 10
3.4 Concerns about Cartelization to Continue in the Global Energy Sector 10
3.5 Natural Gas to Play an Increasingly Important Role 10
3.6 Refining Sector would evolve to Meet the Increasing Demands of Petroleum Products 11
3.7 Coal to Remain as a Dominant Fuel 11
3.8 Electricity Consumption and Generation to Expand Worldwide 11
3.9 Share of Alternative Sources to Grow in Power Generation Fuel Mix 12
3.10 Growth in Carbon Emissions set to Expand Carbon Trading 12
4 Global Energy Consumption to Grow 13
4.1 Demand for Hydrocarbon Fuels 14
4.2 Economic Development as the Key Factor 19
5 Energy Market Volatility to Continue 31
5.1 Challenges to Petroleum Supply 32
5.2 Challenges to Energy Facilities and Investments 33
5.3 Price Volatility 34
5.4 Impact of Higher Energy Price on Economy 37
6 Traditionally Resource Rich Regions would continue to be Major Suppliers 38
6.1 Oil Rich Regions and Reserves 38
6.2 Prospective Role of Middle East in Global Market 47
6.3 Greater Focus on Fiscal Management in Producing Countries 48
7 Concerns about Cartelisation to continue in the Global Energy Sector 50
7.1 OPEC Cartelization 50
7.2 Non-OPEC Producers 54
7.3 Petroleum Importing Countries 57
8 Natural Gas to Play an Increasingly Important Role 58
8.1 Demand Growth and Potential Market Expansion 60
8.2 Growth in Natural Gas Prices 64
9 Refining Sector would evolve to meet the Increasing Demand of Petroleum Products 65
9.1 Demand and Supply for Petroleum Products 65
9.2 Energy Security and Refining 67
10 Coal to Remain as a Dominant Fuel 70
10.1 Coal Production and Consumption Trend in Major Consuming Countries 71
10.2 Coal Technologies 74
11 Electricity Consumption and Generation to expand Worldwide 76
11.1 Growth in Consumption 76
11.2 Major Fuels Used In Electricity Generation 79
11.3 Growth in Global Electrification 82
12 Share of Alternative Sources to Grow in Power Generation Fuel Mix 84
12.1 Contribution of Renewable Energy to Non-Grid Power Supply to Grow 84
12.2 Growth in Biofuel 86
13 Growth in Carbon Emissions set to Expand Carbon Trading 88
13.1 Growth in Energy Based Emissions 89
13.2 Growth in Energy Efficiency 92
13.3 Emission and Carbon Trading 92
14 Appendix 94
14.1 Methodology 94
14.2 Unit of Measure 96
14.3 Contact Us 97
14.4 About us 97
14.5 Disclaimer 97

1.1 List of Tables

Table 1: World Primary Energy Consumption And Population, 2000- 2010 14
Table 2: World Primary Energy Consumption by Sector, Million Tons oil Equivalent, 2000- 2010 16
Table 3: World Primary Energy Consumption by Fuel, Million Tons of Oil Equivalent, 2000- 2010 18
Table 4: Primary Energy Consumption and GDP of OECD Countries, 2000- 2010 20
Table 5: Primary Energy Consumption and GDP in Brazil, 2000-2010 23
Table 6: Primary Energy Consumption and GDP in Russia, 2000- 2010 25
Table 7: Primary Energy Consumption and GDP in India, 2000-2010 27
Table 8: Primary Energy Consumption and GDP in China, 2000-2010 29
Table 9: Incidents of Energy Vulnerability, World 33
Table 10: OPEC Flows of Crude and Refined Oil, Thousand Barrels per Day, 2006 53
Table 11: Natural Gas Exports of Top 10 Countries, Billion Cubic Meters, 2000- 2010 61
Table 12: Natural Gas Imports in Top 10 Countries, Billion Cubic Meters, 2000- 2010 62
Table 13: World Refining Capacity and Petroleum Products Consumption, Million Tons, 2000- 2010 69
Table 14: World Coal Production and Consumption, Million Tons of Oil Equivalent, 2000- 2010 71
Table 15: Coal Consumption in China, United States, India, Million Tons of Oil Equivalent, 2000- 2010 72
Table 16: World CO2 Emissions by Fuel Type, Billion Tons, 2000- 2010 89
Table 17: World CO2 Emissions and GDP, 2000- 2010 90

1.2 List of Figures

Figure 1: World Primary Energy Consumption and Population, 2000- 2010 13
Figure 2: World Primary Energy Consumption by Sector, Million Tons oil Equivalent, 2000- 2010 15
Figure 3: World Energy Sector break-up in 2000 and 2010 17
Figure 4: World Primary Energy Consumption by Fuel, Million Tons of Oil Equivalent, 2000- 2010 17
Figure 5: Primary Energy Consumption and GDP of OECD Countries, 2000- 2010 20
Figure 6: Energy Intensity of OECD Countries, 2000- 2010 21
Figure 7: Energy Intensity of Brazil, 2000- 2010 22
Figure 8: Primary Energy Consumption and GDP in Brazil, 2000-2010 23
Figure 9: Energy Intensity of Russia, 2000- 2010 24
Figure 10: Primary Energy Consumption and GDP in Russia, 2000- 2010 25
Figure 11: Energy Intensity of India, 2000- 2010 26
Figure 12: Primary Energy Consumption and GDP in India, 2000-2010 27
Figure 13: Energy Intensity of China, 2000- 2010 28
Figure 14: Primary Energy Consumption and GDP in China, 2000-2010 29
Figure 15: Primary Energy Consumption in Producing Regions, 2000- 2010 30
Figure 16: Price Volatility and Major Incidents, 1970- 2006 31
Figure 17: Global Crude Oil Prices, Dollars per Barrel, 2003- 2008 35
Figure 18: World Natural Gas (Henry Hub) Prices, Dollars per MMBtu, 2003- 2008 35
Figure 19: Crude Oil Reserves of Top 5 Countries in the World, Million Barrels, 2000- 2010 39
Figure 20: Crude Oil Production in Middle East, Thousand Barrels per Day, 2000- 2010 40
Figure 21: Crude Oil Production in Top Countries in Middle East, Thousand Barrels per Day, 2000- 2010 41
Figure 22: Crude Oil Reserves of Top 5 Countries in Africa, Million Barrels, 2000- 2010 42
Figure 23: Crude Oil Production of Top 5 Countries in Africa, Thousand Barrels per Day, 2000- 2010 43
Figure 24: Crude Oil Reserves of Top 5 Countries in former Soviet Union, Million Barrels, 2000- 2010 44
Figure 25: Crude Oil Production of Top 5 Countries in former Soviet Union, Thousand Barrels per Day, 2000- 2010 45
Figure 26: Crude Oil Reserves of Top 5 Countries in Latin America, Million Barrels, 2000- 2010 46
Figure 27: Crude Oil Production of Top 5 Countries in Latin America, Thousand Barrels per Day, 2000- 2010 46
Figure 28: Crude Oil Production and Exports in Middle East, Thousand Barrels per Day, 2000- 2010 48
Figure 29: Crude Oil Reserves in OPEC Countries, Million Barrels, 2000- 2010 51
Figure 30: Crude Oil Production, OPEC Countries, Thousand Barrels per Day, 2000- 2010 53
Figure 31: Crude Oil Reserves in Non-OPEC Countries, 2000- 2010 55
Figure 32: Crude Oil Production in Non OPEC Countries, 2000- 2010 56
Figure 33: World Proved Natural Gas Reserves, Billion Cubic Meters, 2000- 2010 58
Figure 34: Top 5 Natural Reserve Holders and their Production 2007 59
Figure 35: World Natural Gas Consumption, Billion Cubic Meters, 2000- 2010 60
Figure 36: Natural Gas Exports of Top 10 Producing Countries, Billion Cubic Meters, 2000- 2010 61
Figure 37: Natural Gas Imports in Top 10 Importing Countries, Billion Cubic Meters, 2000- 2010 62
Figure 38: Number of Refineries by Region, by Type in 2007 and Planned up to 2012 66
Figure 39: Annual Refining Capacity by Region, Million Tons, 2000- 2010 67
Figure 40: World Refining Capacity and Petroleum Products Consumption, Million Tons, 2000- 2010 68
Figure 41: World Coal Production and Consumption, Million Tons of Oil Equivalent, 2000- 2010 70
Figure 42: Coal Consumption in China, United States and India, Million Tons of Oil Equivalent, 2000- 2010 72
Figure 43: World Electricity Generation and Consumption, Billion Kilowatt-hours, 2000- 2010 77
Figure 44: Electricity Consumption by Region, Billion Kilowatt-hours, 2000- 2010 78
Figure 45: Thermal Electricity Generation by Region, Billion Kilowatt-hours, 2000- 2010 80
Figure 46: Hydro Electricity Generation by Region, Billion Kilowatt-hours, 2000- 2010 81
Figure 47: Nuclear Electricity generation by Region, Billion Kilowatt-hours, 2000- 2010 82
Figure 48: Electricity Generation in India and China, Billion Kilowatt-Hours, 2000- 2010 83
Figure 49: Global Wind Power Installed Capacity, Megawatts, 2000- 2006 85
Figure 50: World Photovoltaic Electricity Production, Megawatts, 2000- 2007 86
Figure 51: World CO2 Emissions by Fuel Type, Billion Tons, 2000- 2010 88
Figure 52: World CO2 Emissions and GDP, 2000- 2010 90
Figure 53: World Per Capita CO2 Emission, Tons per Person, 2000- 2010 91
Figure 54: Our Methodology94

Ordering:

Order Online - http://www.researchandmarkets.com/reports/606332/

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>The Top Ten Global Energy Trends</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Address:</td>
<td><a href="http://www.researchandmarkets.com/reports/606332/">http://www.researchandmarkets.com/reports/606332/</a></td>
</tr>
<tr>
<td>Office Code:</td>
<td>SCDKEKAP</td>
</tr>
</tbody>
</table>

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Product Format</th>
<th>Quantity</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User</td>
<td></td>
<td>USD 1000</td>
</tr>
<tr>
<td>Electronic (PDF) - Site License</td>
<td></td>
<td>USD 7000</td>
</tr>
<tr>
<td>Electronic (PDF) - Enterprisewide</td>
<td></td>
<td>USD 10500</td>
</tr>
</tbody>
</table>

Contact Information
Please enter all the information below in BLOCK CAPITALS

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mr ☐ Mrs ☐ Dr ☐ Miss ☐ Ms ☐ Prof ☐</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td></td>
</tr>
<tr>
<td>Email Address: *</td>
<td></td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:

Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ______________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World