

Middle East Renewable Energy Sector Analysis

<https://marketpublishers.com/r/MDEB175FF95EN.html>

Date: March 2013

Pages: 150

Price: US\$ 1,200.00 (Single User License)

ID: MDEB175FF95EN

Abstracts

Please note: extra shipping charges are applied when purchasing Hard Copy License depending on the location.

All the major economies in Middle East region have started to take the renewable energy way, contrary to their most important possession, non renewable (Hydrocarbons). The growing economy with growing population has affected a growth in the urbanization in these nations which has resulted in an increase in consumption of oil and gas. The growing population demands more electricity, power plants based majorly on non renewable sources. The Middle East is one region in the world that requires energy even for drinking water which is produced by desalination of sea water. Growing population means more demand of water requiring more energy. The increasing in house consumption of energy sources has the Middle East worried over the increasing share it has to divert domestically, leaving comparatively lesser for export.

Electricity production is the most energy intensive industry in these countries and is produced mostly from fossil fuels. The climatic conditions of the region make air conditioning a must resulting in more than average power consumption as compared to the rest of the world. About 99% of water in these countries comes from desalination, another energy consuming process, working mainly on gas feeds. Water and electricity together are the most energy consuming sectors in the region and some of these countries are the highest per capita consumers of power and water. With depleting oil and gas reserves and export quotas and commitments to fulfill, it is vital for the Middle East countries to diversify and look at renewable sources of energy for power and water production.

Saudi Arabia, UAE, Kuwait and Oman have each declared their plans to produce at least 10% of electricity from renewable sources of energy by 2020 and are leaving no stone unturned to secure their future with renewable sources of energy, the report implies.

“Middle East Renewable Energy Sector Analysis” research report is an intriguing text that gives facts and projected figures about the paradoxical situation arising in the world, with the world’s largest oil and gas providers looking at renewable sources to light their own bulbs. The report meticulously takes through each country’s electricity and water situation and then its renewable energy efforts along with policies and regulations. It is packed with information and adds a special feature on the GCC interconnection grid that will be fed with power from the renewable sources of energy in the coming years and also gives the potential renewable sources of energy and the future scenario of the Middle East region with the latest developments.

“Middle East Renewable Energy Sector Analysis” research report discusses following aspects related to Renewable Energy Development in Middle East Region:

Current Electricity Generation

Renewable Energy Resource Mapping

Renewable Energy Initiatives

Renewable Energy Targets

Policy & Regulatory Framework

Emerging Trends in Renewable Energy Development

GCC Electricity Grid

Report covers 11 countries from Middle East Region:

Saudi Arabia, United Arab Emirates, Bahrain, Kuwait, Oman, Qatar, Jordan, Turkey, Israel, Lebanon and Egypt.

Contents

1. WHY MIDDLE EAST IS FOCUSING ON RENEWABLE ENERGY?

2. MIDDLE EAST RENEWABLE ENERGY RESOURCE MAPPING

- 2.1 Solar
- 2.2 Wind
- 2.3 Waste to Energy
- 2.4 Biogas

3. SAUDI ARABIA

- 3.1 Overview
- 3.2 Renewable Energy Initiatives & Generation Capacity Target
- 3.3 Regulatory & Policy Framework

4. UNITED ARAB EMIRATES

- 4.1 Overview
- 4.2 Renewable Energy Initiatives & Generation Capacity Target
- 4.3 Regulatory & Policy Framework

5. BAHRAIN

- 5.1 Overview
- 5.2 Renewable Energy Initiatives & Generation Capacity Target
- 5.3 Regulatory & Policy Framework

6. KUWAIT

- 6.1 Overview
- 6.2 Renewable Energy Initiatives & Generation Capacity Target
- 6.3 Regulatory & Policy Framework

7. OMAN

- 7.1 Overview
- 7.2 Renewable Energy Initiatives & Generation Capacity Target

7.3 Regulatory & Policy Framework

8. QATAR

8.1 Overview

8.2 Renewable Energy Initiatives & Generation Capacity Target

8.3 Regulatory & Policy Framework

9. EGYPT

9.1 Overview

9.2 Renewable Energy Initiatives & Generation Capacity Target

9.3 Regulatory & Policy Framework

10. JORDAN

10.1 Overview

10.2 Renewable Energy Initiatives & Generation Capacity Target

10.3 Regulatory & Policy Framework

11. TURKEY

11.1 Overview

11.2 Renewable Energy Initiatives & Generation Capacity Target

11.3 Regulatory & Policy Framework

12. LEBANON

12.1 Overview

12.2 Renewable Energy Initiatives & Generation Capacity Target

12.3 Regulatory & Policy Framework

13. ISRAEL

13.1 Overview

13.2 Renewable Energy Initiatives & Generation Capacity Target

13.3 Regulatory & Policy Framework

14. GCC ELECTRICITY GRID

15. EMERGING TRENDS

15.1 Demand for Smart Grid Solutions

15.2 Increasing Investments

15.3 Need for Incentive & Tariff Structure

15.4 Rising Electricity Consumption

List Of Figures

LIST OF FIGURES

Figure 2-1: Global - Solar Radiation Map

Figure 2-2: Middle East Solar Radiation Map

Figure 2-3: Middle East - Daily Average Solar Radiation by Country

Figure 2-4: Middle East - Monthly Average Wind Speed by Country

Figure 2-5: Middle East- Waste Generation by Type

Figure 2-6: Middle East - Municipal Solid Waste Generation by Country

Figure 3-1: Saudi Arabia – Solar Radiation Map

Figure 3-2: Saudi Arabia - Desalination Cost by Solar Power Based Technology, US\$/m³

Figure 3-3: Saudi Arabia Renewable Energy Capacity Target (GW), 2018, 2020, 2027 & 2032

Figure 3-4: Saudi Arabia – Renewable Energy Capacity by Fuel (GW), 2030

Figure 3-5: Saudi Arabia – Renewable Energy Capacity by Fuel (GW), 2032

Figure 3-6: Saudi Arabia – Renewable Energy Capacity by fuel (%), 2032

Figure 3-7: Saudi Arabia - Solar PV & Solar Thermal based Power Generation Capacity (GW), 2032

Figure 3-8: Saudi Arabia - Solar Power Generation Capacity Target (GW), 2020 & 2032

Figure 3-9: Saudi Arabia - Share of Solar Power in Electricity Generation, 2020

Figure 3-10: Saudi Arabia - Share of Solar Power in Electricity Generation, 2032

Figure 3-11: Saudi Arabia - Renewable Energy Investment, US\$ Billion

Figure 4-1: UAE - Power Generation Capacity Additions, (MW)

Figure 4-2: UAE - Abu Dhabi Renewable Energy Target, 2020

Figure 4-3: UAE - Dubai Renewable Energy Target, 2030

Figure 4-4: UAE - Dubai Share of Solar Power in Electricity Installed Capacity, 2020 & 2030

Figure 4-5: UAE – Solar Radiation Map

Figure 4-6: UAE - Share of Nuclear Power in Total Energy Matrix, 2020

Figure 4-7: UAE - Renewable Energy Sector Investment, US\$ Billion

Figure 4-8: UAE - Dubai Electricity Generation Capacity by Fuel, 2030

Figure 5-1: Bahrain - Percentage Change in Electricity Consumption, 2000-2011

Figure 5-2: Bahrain – Electricity Generation Capacity (MW), 2008-2011

Figure 5-3: Bahrain - Electricity Consumption (GWh), 2008-2010

Figure 5-4: Bahrain - Peak Load (MW), 2008-2011

Figure 5-5: Bahrain - Monthly Average Daily Global Radiation and Average Sunshine Hours

- Figure 5-6: Bahrain - Mean Annual Wind Speed by Month
- Figure 5-7: Bahrain - Share of Renewable Energy in Electricity Matrix, 2030
- Figure 6-1: Kuwait - Oil Consumption in Power Generation (%), 2010 & 2020
- Figure 6-2: Kuwait – Electricity Generation Capacity (MW), 2010 & 2011
- Figure 6-3: Kuwait – Solar Radiation Map
- Figure 6-4: Kuwait - Share of Renewable Energy in Electricity Matrix, 2020 & 2030
- Figure 6-5: Kuwait - Kuwait Renewable Energy Investments, US\$ Million
- Figure 7-1: Oman - Peak Demand for Electricity (MW), 2010 & 2011
- Figure 7-2: Oman - Electricity Generation Capacity Addition by Projects (MW), 2016
- Figure 7-3: Oman - Share of Renewable Energy in Electricity Matrix, 2020
- Figure 7-4: Oman - Solar Radiation Map (MWh/m²)
- Figure 8-1: Qatar - Electricity Generation Capacity (MW), 2008-2011
- Figure 8-2: Qatar - Electricity Peak Load (MW), 2008-2011
- Figure 8-3: Qatar – Solar Radiation Map
- Figure 8-4: Qatar - Renewable Energy Investments, US\$ Billion
- Figure 8-5: Qatar – Share of Renewable Energy in Electricity Matrix, 2030
- Figure 9-1: Egypt - Wind Power Projects Total Installed Capacity (MW), 2007-2012
- Figure 9-2: Egypt - Solar Radiation Map
- Figure 9-3: Egypt - Share of Renewable Energy in Total energy Mix, 2020
- Figure 9-4: Egypt - Share of Wind Energy in Total Energy Mix, 2020
- Figure 9-5: Egypt - Share of Solar Energy in Total Energy Mix, 2020
- Figure 9-6: Egypt - Renewable Energy Target Breakup by Fuel, 2020
- Figure 10-1: Jordan - Electricity Consumption by Sector, 2012
- Figure 10-2: Jordan - Domestic & Imported Energy Targets, 2015 & 2020
- Figure 10-3: Jordan - Renewable Energy Target, 2015 & 2020
- Figure 10-4: Jordan - Investment in Renewable Energy (US\$ Million), 2008 till 2020
- Figure 10-5: Jordan - Renewable Energy by Fuel, 2020
- Figure 10-6: Jordan - Solar & Wind Energy Project Applications (MW), 2012
- Figure 10-7: Jordan - Share of Household with Solar Thermal Application, 2013 & 2020
- Figure 10-8: Jordan - Solar Radiation Map
- Figure 10-9: Jordan - Monthly Solar Radiation
- Figure 10-10: Jordan – Solar Radiation for Amman City by Month
- Figure 10-11: Jordan - Wind Map (m/s)
- Figure 10-12: Jordan - Energy Mix by Fuel, 2015 & 2020
- Figure 10-13: Jordan - Electricity Demand (MW & GWh), 2012 & 2020
- Figure 11-1: Turkey - Cumulative Installed Capacity (GW), 2006-2012
- Figure 11-2: Turkey - Wind Power Installed Capacity (MW), 2006-2012
- Figure 11-3: Turkey - Waste based Installed Capacity (GW), 2006-2012
- Figure 11-4: Turkey - Geothermal based Installed Capacity by Fuel (GW), 2006-2012

- Figure 11-5: Turkey - Solar Radiation Map
- Figure 11-6: Turkey - Monthly Total Solar Energy (kWh/m²)
- Figure 11-7: Turkey - Sunshine Duration (hours /month)
- Figure 11-8: Turkey - Solar Energy Potential by Region (kWh/m²-year)
- Figure 11-9: Turkey - Annual Wind Power Density (W/m²) & Speed (m/s) by Region
- Figure 11-10: Turkey - Wind Power Potential at Variable Wind Speed, (m/s & MW)
- Figure 11-11: Turkey - Technically Feasible Wind Power Potential at Variable Wind Speed, (m/s & MW)
- Figure 11-12: Turkey - Onshore & Offshore Wind Power Potential, (MW)
- Figure 11-13: Turkey - Offshore Wind Power Potential at Variable Wind Speed, (m/s & MW)
- Figure 11-14: Turkey - Onshore Wind Power Potential at Variable Wind Speed, (m/s & MW)
- Figure 11-15: Turkey - Technically Feasible Offshore & Onshore Wind Power Potential (MW)
- Figure 11-16: Turkey - Wind Power Installed Capacity Targets (GW), 2015 & 2023
- Figure 12-1: Lebanon - Wind Energy Potential (MW)
- Figure 12-2: Lebanon - Onshore Wind Atlas
- Figure 12-3: Lebanon - Offshore Wind Atlas
- Figure 12-4: Lebanon - Share of Renewable Energy in Total Energy Matrix, 2020
- Figure 12-5: Lebanon - Share of Bio Energy in Total Energy matrix, 2020
- Figure 12-6: Lebanon - Renewable Energy Capacity (MW), 2015
- Figure 12-7: Lebanon - Solar Water Heater Installations (m²), 2013-2015
- Figure 13-1: Israel – Renewable Energy Target (%), 2014 & 2020
- Figure 13-2: Israel – Renewable Energy Target (MW), 2014 & 2020
- Figure 13-3: Israel - Renewable Energy target by fuel, 2014 & 2020
- Figure 13-4: Israel - Renewable Energy Generation (TWh), 2020
- Figure 14-1: GCC - Electricity Demand (MW), 2020 & 2028
- Figure 14-2: GCC - Interconnection Grid
- Figure 15-1: Middle East - Renewable Energy Investments by Country

List Of Tables

LIST OF TABLES

Table 4-1: UAE - Planned Nuclear Power Reactors

I would like to order

Product name: Middle East Renewable Energy Sector Analysis

Product link: <https://marketpublishers.com/r/MDEB175FF95EN.html>

Price: US\$ 1,200.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/MDEB175FF95EN.html>