



NRGExpert
Energy Intelligence

PUBLICATION LIST

RENEWABLES, NON-RENEWABLES,
WATER, INFRASTRUCTURE.

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Price Forecasting and Advisory Service.....19

NON-RENEWABLES PUBLICATIONS

Global Natural Gas Report – Published February 2012

Edition 1

This new report provides an analysis of the global Natural Gas Market and its future development. Carbon reduction commitments and low gas prices have made natural gas more attractive as a fuel for power generation and transportation. Traditionally natural gas was flared as a waste product of the oil industry. Now natural gas is a viable alternative to coal as a cleaner fuel for power generation and a cheaper fuel than oil for transportation in some sectors. Furthermore, natural gas liquids (NGLs) are increasingly replacing products from oil in the production of petrochemicals, especially ethane for naphtha. This report provides; natural gas prices, supply and future directions for the market, potential of unconventional uses of natural gas and NGLs, coverage of the natural gas markets at the country-level, an in-depth analysis of the major independent and state-controlled natural gas players, plus much more including forms of natural gas for transportation and natural gas reserves.

NRGNR1

£1,200

Shale Gas Report – Published September 2011

Edition 1

This new report looks at the global Shale Gas market, the changes, developments and forecasts for the future. Shale gas has been a 'game changer' in the US changing the country from being reliant on imports for the foreseeable future to being able to meet demand from domestic production. A large reduction in the cost to produce natural gas from shale has made shale gas economically viable. So presently US natural gas prices are around USD 4 per mmBtu. Whether shale gas can maintain its meteoric rise is uncertain. Low gas prices have made the economics of shale gas projects less attractive and are expected to remain bearish in the short-term. Furthermore, there is concern over the environmental impact of fracturing water and the amount of water used in the fracturing process. New environmental legislation on hydraulic fracturing, if passed, could drive the costs of hydraulic fracturing higher, possibly leaving only the big players in the shale game.

NRGSG1

£650

Coal and Clean Coal Report – Published September 2011

Edition 1

This new report analyses the global Coal market, the market drivers and the key components for future growth and development. For the first time China became a net importer of coal last year. Demand from Southern and South Eastern provinces was met by cheaper imports from Indonesia and Australia rather than more expensive coal from the provinces of Shanxi and Inner in the north, due to logistic costs. Domestic supply is also likely to diminish owing to the country's strategy of consolidating the nation's mines to eventually close unsafe and inefficient mines. In India, companies are buying up coal assets overseas, particularly in Australia, and are importing more coal. As domestic coal production is unlikely to meet growing demand even if logistics and operations within the country are substantially improved. Elsewhere, coal demand is expected to grow, but not at the same pace as China and India, due to rising natural gas prices.

NRGCR1

£1,050

Global Nuclear Energy Report – Published September 2011

Edition 1

This new report analyses the global Nuclear Power market, the market drivers and the key components for future growth and development. The nuclear renaissance has been long overdue and finally appears to be materialising, but not with the anticipated surge of new build worldwide. Instead there is a clear East-West divide. Asian giants are focusing on new build to meet supply shortages and countries in Europe and North America are opting to uprate existing facilities and extend their lifetime. As often this is cheaper and more acceptable to public opinion. As there has been limited new build in the West over the past ten years, South Korea and China are starting to gain a strong hold in the domestic and international market. Both countries are reportedly producing reactors at lower cost, to schedule and in a short time. Although for both the East and West, the extent of the renaissance will largely depend upon the consequence of the March 11th 2011 earthquake in Japan. In terms of the actual damage caused to the reactors themselves and residents in the vicinity and to public opinion on nuclear power.

NRGNR1

£1,050

Oil Sands Report – Published September 2011

Edition 1

This new report looks at the global Oil Sands market place now and the predictions for future growth development and change. Rising oil prices have renewed interest in oil sands and extra-heavy oil projects. In the two countries with the largest proven reserves, Canada and Venezuela, there has been an increase in both domestic and foreign investment in projects. With Japan, China and South Korea leading the pack in terms of the monies invested and diversity of projects funded. As all four countries are reliant on oil imports and Japan has no fossil fuel reserves of its own. In Venezuela, for the first time since his election, Chavez has awarded heavy oil blocks in its Orinoco belt to foreign companies. By contrast, the majority of Canadian oil sands leases have been awarded. Therefore mergers and acquisitions are likely to feature heavily over the coming years rather than brand new projects in the Alberta oil sands region.

NRGOSR1

£650

Global Oil Reserves and Shale Oil Report – Published April 2012

Edition 1

The new NRG Expert Global Oil Reserves and Shale Oil report looks at global oil reserves and shale oil by country and company. The Shale Oil market and to date production of shale oil has been mainly restricted to periods in history when oil supplies were constrained or expected to be constrained or when governments supported the sector. For example, interest in shale oil projects was high during and after wars due to concern over possible supply constraints. After the 1973 oil embargo a reduction in oil supplies resulted in many countries exploring and producing domestic shale oil.

High oil prices have made expensive shale oil projects more attractive, but the volatility of oil prices have made it risky to invest in expensive projects that require a high oil price to be profitable. Oil prices are projected to rise, which may make projects profitable in the long-term, particularly in countries keen to increase domestic oil production. Competition from conventional oil and unconventional and frontier gas is a significant risk, for example oil sands and deep offshore gas. However, as OPEC oil is expected to continue to dominate the oil markets, countries with oil shale reserves may be keen to develop, at least some domestic oil industry.

NRGSHO1

£850

RENEWABLES PUBLICATIONS

Wind Energy Report – Published September 2011

Edition 1

This global report contains a full analysis of wind energy developments, worldwide and by country. 2010 was a weak year for the wind industry with only 37 GW installed. Once again growth was led by the Chinese market, which accounted for around one of every two wind turbines installed. Consequently, China overtook the US to become the number one wind market. The top three Chinese manufacturers, Sinovel, Dongfang and Goldwind, all increased their world rankings in terms of installed capacity, and secured more international contracts for turbines. The top five wind markets, China, the USA, Germany, Spain and India, are expected to remain the same in 2015 and 2020, with India swapping places with Spain in 2017 to become the fourth largest market. However, the top five markets will lose their market share as other existing and new markets install more capacity. NRG Expert expects the installed capacity to reach 398 GW in 2015 and 667 GW in 2020. We anticipate that Europe (including non EU countries) will represent some 38% of capacity, Asia 34% and North America 22% and remaining regions will count for 6%.

NRGWE1

£1,950

Geothermal Report – Published September 2011

Edition 1

NRG Expert's Geothermal Report contains a global assessment of Geothermal energy developments and deployments. 2010 appeared to be a weak year for geothermal with few projects commissioned and only in existing markets. However, this is not indicative of the state of the sector as a whole. As more money was invested in geothermal last year than the previous year. Several projects are now in the advanced stages of development, e.g. in the US alone there is 722 MW of project in phase 3 and 4, and support for the sector is strong. Specifically, Japan and Indonesia are relaxing rules on developing geothermal projects on protected land, which should open up more sites for development. Over the next five years high growth markets for the sector are expected to continue to be the top six main markets, Kenya, Iceland, Mexico and South America. For the latter, developers have already been awarded concessions to explore new sites in Argentina, Colombia, Chile and Peru. In the middle of 2010 the Chilean government announced plans to invest up to USD 200 million in geothermal projects and will grant over 170 geothermal concessions over the next two years, which should result in the country installing its first generation plant in the mid-term. Kenya and Mexico and the other six major markets are likely to commission projects in the advanced stages of development.

NRGGT1

£1,050

Global Hydro Power Report – Published September 2011

Edition 1

This new report looks at the global hydro market, the changes, developments and forecasts for the future. Following years of stagnation and bad press, hydro power is experiencing resurgence. Technologies with a lower environmental impact such as run-of-river, small hydro and low head turbines are proving to be extremely popular to both appease critics of hydro and meet energy needs. So much so that in the USA, the regulator of hydro projects, the FERC, has signed memorandum of understandings with five states to streamline the licensing of small projects. There has been an increase in pumped storage projects as a standalone option and retrofitted on to existing hydro power assets. As pumped storage is the most mature technology to store electricity generated from intermittent renewables such as wind and solar and then release it to meet peak demand. A large number of such projects are planned or under construction in the USA, China and Europe, which have a significant number of solar and wind projects installed or in the pipeline.

NRGHR1

£1050

World Biofuels Report – Coming Soon

Edition 1

This new report looks at the global Biofuels market place now and the predictions for future growth and development. 2009 was a hard year for the biofuels sector with low oil prices and reduced demand for transport fuels. Investment was down by just over a third compared to the previous year. Plants were idle or operating at less than capacity. The industry in the EU, US, Malaysia and Indonesia were particularly feeling the effects; both the US and EU were struggling to compete with cheaper fuels from Latin America. The projects that did receive investments mainly used mixed feedstocks and thus could adapt to changing commodity prices and supply shortages. Projects using sugar cane or next generation feedstocks such as jatropha, cellulose or algae received significant investments.

NRGWB1

£850

World Biomass Report – Coming Soon

Edition 1

This new report analyses the global Biomass market, the market drivers and the key components for future growth. The biomass market suffered during the economic downturn in the face of low coal prices, logistic barriers and supply issues. 2010 saw more movement in the sector as coal prices are beginning to rise once again making co-firing coal plants with biomass more attractive. Furthermore, the biomass component of a coal-fired plant may be eligible for feed-in tariff or count towards renewable portfolio standards. Most of these plants rely on wood pellets, often transported at great distance, rather than wood chips or other less dense biomass sources. In the wood pellets market, supplies from the US and Canada are cheaper than their European counterparts and thus North America is a major supplier for European biomass plants. CIS countries, Russia, Australia and South Africa have entered as significant suppliers, which if they could ramp up supply, could be serious competitors to the US and Canada. Or in the case of Russia, resolve supply delay issues, could be one of the biggest players in the market.

NRGBR1

£850

Global Ocean Energy Report – Coming Soon

Edition 1

This new report looks at the key market drivers for the global Ocean Energy market, developments and future projections. 2009 was a good year for the ocean energy sector with US \$246 million invested in the sector, up from the 2008 figure. Key areas of development were wave energy, and tidal and marine current projects. For both sectors, more devices reached the prototype stage and were tested out at sea. Considerably more funding has been available for projects to take this leap. Portugal and the UK remain as the main countries for wave energy projects due to generous grants and subsidies, targets and in the case of Portugal, a feed-in tariff. Other countries making significant inroads in the sector last year include Australia, the US, New Zealand and other European countries, especially Ireland.

NRGOER1

£650

Solar PV Report – Coming Soon

Edition 1

This new report analyses the global SPV market, the market drivers and the key components for future growth and development. The past year and a half was characterised by downstream acquisi-

tions. Solar manufacturers acquired project developers and project pipelines. Most notable of which was First Solar's acquisition of NextLight, a major renewable energy developer with a pipeline of 1.1 GW of utility scale PV projects. Manufacturers are slowly moving their operations overseas to cheaper markets, but often keep an assembly facility in major markets because of their low labour costs. Big oil incumbents seem to be giving up on Solar with BP no longer manufacturing solar cells, except through joint ventures or by outsourcing contracts, and Shell having sold its assets in 2006.

NRGSPR1

£1,200

Global Renewables Report – Coming Soon

Edition 1

This report is an overview of the global renewable energy markets including – Solar PV, Solar Thermal, Wind, Biomass, Hydro, Ocean technologies, Geothermal and Biofuels.

NRGRR1

£1,050

WATER PUBLICATIONS

Global Guide to Water and Waste Water Utilities – Published April 2012

Edition 1

The world's population is averaging a growth rate of around 1.1% annually. This is creating a greater demand for improved water supplies and sanitation, especially in developing countries and urban areas. As stronger population growth is generally observed in these regions. They may also have more challenging requirements to meet the water target under the UN's Millennium Development Goals (MDGs). A target of reducing 'the proportion of people without sustainable access to safe drinking water and sanitation' for eligible countries by half by 2015.

NRGWW1

£850.00

Global Desalination Report – Coming Soon

Edition 1

This new report analyses the global Desalination market, the market drivers and the key components for future growth and development. The desalination market was still feeling the effects of the economic downturn in 2010 and many projects were put on hold. As in previous years, the general shift from energy demanding thermal desalination technologies, such as multi-stage flash (MSF) and multi effect distillation (MED), to membrane technologies, such as reverse osmosis (RO), is continuing apace. There are still some thermal projects. As in previous years, the general shift from energy demanding thermal desalination technologies, such as multi-stage flash (MSF) and multi effect distillation (MED), to membrane technologies, such as reverse osmosis (RO), is continuing apace. For the next few years strong market growth is expected, as access to finance is more readily available. 2011 is expected to be a good year for the sector compared to 2010.

NRGDR1

£1,050

ENERGY SUPPLY AND UTILITIES

Power Generator Database and Market Intelligence – Published April 2012

Edition 1

This NRG Expert product provides a by country/fuel overview of global generating capacity, its evolution and power forecasts. Global generating capacity rose from approximately 134 GW in 1938, to 213 GW in 1950 after the Second World War, and then to 5,082 GW in 2010. Although the figures were small compared with today, the years of WW 2 and the following period, from 1938 to 1950 were a time of enormous change in the electrical sector in which the seeds of today's industry were sown. There was heavy destruction to the industry in Europe and Japan in the first half of the 1940s, while in the USA capacity grew from 37.6 GW in 1938 to 50.1 GW in 1945. In the years after the war reconstruction commenced, with global capacity growing to 217 GW by 1950. Global capacity is forecast to reach 7,390 GW in 2020.

NRGPG1

£2,950

Global Guide to Natural Gas Utilities – Published February 2012

Edition 1

This new NRG Expert Natural Gas Utilities Report is a guide providing a fully comprehensive global analysis for the Natural Gas Industry. This report includes; a description of the different types of natural gas and uses, the global natural gas situation including reserves, market, trade and the gas exporting countries forum, coverage of the natural gas market at the regional level, in depth reporting of the economic situation and natural gas market including natural gas production, transportation, distribution and generation of electricity amongst others for 116 countries worldwide. Carbon reduction commitments and low gas prices relative to other fossil fuels have made natural gas more attractive for power generation and transportation. Overall consumption of natural gas has been growing worldwide. In emerging economies such as China and India domestic supply has not been able to meet growth in demand. More countries are importing natural gas. Increasingly this natural gas is being transported over longer distances. Thus, the transportation of liquefied natural gas (LNG) has been outpacing growth in the trade of natural gas via pipelines, which is more expensive.

NRGNRU1

£995

INFRASTRUCTURE PUBLICATIONS

Energy Efficiency – The New Fuel – Published February 2012

Edition 1

This new NRG Expert report looks at the policies and incentives for energy efficiency for the power generation, the industrial sector, transportation and the residential or commercial sectors for countries worldwide. The report enables the reader to identify the major consumers of energy. They include in descending order, energy for power generation, the industrial sector, transportation and the residential or commercial sector. With electric generation capacity expected to be constrained in many countries worldwide in the foreseeable future, efforts have been focused on increasing electricity supply and reducing demand. One of the lowest hanging fruits in reducing electricity demand, i.e. the lowest cost, highest benefit ratio, is energy efficiency. Often energy efficient measures and devices will be more cost-effective than the construction of new generation capacity in order to meet demand for electricity. The same principle applies to fuels for energy generation. Where projected rising prices, especially for oil, make energy efficient cars with a low fuel consumption compared to conventional vehicles considerably more attractive for consumers. Uptake of the implementation of some energy efficiency devices has been rather slow where significant barriers exist, such as high upfront costs etc. In many countries, the uptake of energy efficiency is incentivised. For example, in Canada homeowners are offered grants for energy efficiency improvements under the ecoENERGY Retrofit scheme.

NRGEE1

£950.00

Electricity T&D Infrastructure and Technologies – Published December 2011

Edition 1

This new report and database analyse the global Transmission and Distribution market, providing a general overview of the T&D industry. An introduction to Smart Grid, together with assessments and detailed sections on definitions, strategies, security, investment, cost and development issues, definitions of sectors in the industry and grid interconnections and multinational collaboration. The database contains a by-country snapshot overview of the T&D sector. Each region file contains a regional overview of annual Demand, capital expenditure and total generating capacity by country as well as list of details of industry companies. This report and database are user friendly products, giving real insight into the T&D networks that are continuously evolving in both size and nature. The T&D networks must grow in order to cope with ever rising demand. In the past where it was a matter of adding more lines, transformers and ancillary equipment, today the technology of the systems is often able to substitute increased sophistication for physical growth, or to reduce the additions required by making the system more efficient.

NRGTD01

£4,995

Energy Security Report – Published October 2011

Edition 1

This new global report covers the issues and uncertainties facing companies and countries with regard to energy security. At the country and company-level there are growing concerns over energy security. While no one definition of energy security exists, it is often referred to as enough energy supplies to meet demand at an acceptable price that is not detrimental to economic growth. Indices for energy security have been developed but there is no one definitive energy security index. Current fluctuating fuel and electricity prices are making countries and companies consider other options to meet demand. Especially as some oil and gas countries are experiencing civil disturbances, fuel theft and piracy events. For example, piracy takes place off the coast of Nigeria and off Somalia, civil

unrest in Libya and oil theft in the delta region of Nigeria. Therefore, companies and countries have started to investigate the use of energy supplies closer to home or from more stable countries.

NRGESY1

£995

Global Deployments of Utility Meters & Smart Grid Developments – Published September 2011

Edition 1

This Report & Database product contains detailed data of global Electricity, Gas, & Water Utility Meter deployments, together with a detailed Smart Grid analysis. Utility Meter deployment has seen a great increase in momentum and 2010 has seen continuous deployment of smart meters and advanced metering systems and a general advancement of technology. Whilst there may not be as many new deployments in electricity meters as there are in gas and water; electricity is still the largest growth sector with the most advanced smart meter deployment. As energy prices continue to rise and consumers and utilities are trying to be more conscious, public acceptance of smart meters has become widespread, with many utilities now replacing existing meters with smart-meters and using new technologies as the default for new deployments. Not only is this taking place in the western world, but developing nations, too are seeing a great increase in smart meter deployment.

NRGMD01

£4,995 (Report & Database)

Global Smart Grid Report – Published September 2011

Edition 1

This new report looks at the global Smart Grid Report market place now and the predictions for future growth development and change. In recent years the smart grid has gained a lot of column inches as the panacea for problems with the current electric grid system. A grid system designed for the one-way flow of information and electricity from power plants to consumers. Where consumers are billed for electricity usage based on estimates of consumption regardless of the actual usage and according to time of day. This grid is not designed for the integration of large scale intermittent renewable capacity, or for small-scale distributed renewable capacity such as rooftop solar panels and small scale wind turbines. There is a demand for a new grid system to meet the demands of the 21st century. Smart grid deployment has focused on the use of smart meters and associated communications network in most countries with the notable exception of China. Demand for smart water meters is expected to be high in countries and regions experiencing water stress such as parts of the Middle East, California etc.

NRGSGR1

£1,600

Energy Storage Report – Published September 2011

Edition 1

NRG Expert's new Energy Storage Reports looks at the global developments for battery and energy storage. Energy storage has started to garner interest as a means to integrate more intermittent renewable capacity into the grid. Storage has more uses such as meeting peak demand and delaying investment in generation capacity as a whole, which makes it attractive for utilities. Although while most interest in storage has focused on grid-scale applications, there is also a large market for smaller, scale distributed storage. This includes storage at the consumer-side which could meet demand when the upstream part of the grid is offline. To illustrate the point, in 2010 grid-scale storage projects only accounted for just under a third of all storage deals. Batteries for electric vehicles and plug-in hybrids are too expensive and the infrastructure is not in place for large-scale charging of vehicles. The development of smart grids would make these vehicles more attractive. The development of the storage sector is largely reliant on rising oil prices, in the case of electric vehicles, and gas prices, in the case of grid storage and distributed capacity. Both of which are likely in the mid-term.

NRGES1

£950

ENERGY DATA & INTELLIGENCE

Global Energy Almanac – Published October 2011

Edition 1

A by-country interactive database of Electricity, Gas, Water, Petroleum and BioFuel data containing Vital Statistics for each country, Utility Customers, Emissions, Energy Intensity, CAPEX, Regulators, plus detailed data on:

Electricity: Transmission & Distribution installed base and data, voltage tables, metering installations, smart meters, prices and feed-in tariffs, Capacity by Fuel type, total production, total consumption, imports & exports, lists of power plants, and listings of electrical supply industry companies, and

Gas: proven natural resources, Gross natural gas production, production for consumption, flared gas, Imports & exports, consumption, prices, meters installed, smart, and listings of Gas companies, and

Water: Access to drinking water, annual renewable water resources, fresh water withdrawal, installed meters, smart meters, and listings of water supply companies, and

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NRG EXPERT NATURAL GAS PRICE FORECASTING AND ADVISORY SERVICE

Price Forecasting and Advisory Service

NRG Expert, in association with SMC, tailors its services to provide optimum assistance to natural gas producers, end users and other entities that are looking for the best advice possible on when to buy, sell, and hedge natural gas. Timely forecasting advice will be provided primarily in the form of monthly, weekly or daily updates through the Internet and/or in the form of reports or by telephone. Such advice will analyze and discuss all relevant fundamental and technical factors that SMC believes will affect price movement, and will report on the expected short or long-term price direction. The goal is to provide clients with objective, independent advice that will ultimately achieve company goals of reducing costs and maximizing revenue.

ABOUT SMC

Steven A. Mosley & Company, Inc. ("SMC") is a registered Commodity Trading Advisor ("CTA") with the United States Commodity Futures Trading Commission ("CFTC"). As one of a handful of CTA's specializing in natural gas, SMC employs a disciplined approach utilizing fundamental and technical factors to provide consulting and advisory services in the area of price forecasting and hedging for the nation's producers and large users of natural gas. SMC's significant involvement both in the North American natural gas industry and in the use of NYMEX futures instruments for profit provides a unique level of experience and seasoning.

Mr. Mosley has 28 years of combined experience in the natural gas industry and in using natural gas futures. This unique mix of perspective and experience has spanned from regulation to deregulation and includes all 25 years of deregulated yearly pricing cycles and the use of futures instruments for hedging and profit since 1991.

ABOUT NRG Expert

From a founding partner of ABS Energy Research, the all new NRG Expert is at the forefront of energy market intelligence, data and research. NRG Expert is an independent energy market intelligence and research company. We specialize in energy market research reports, energy market databases and energy market consulting as well as analysis and market forecasts. Our global energy market research reports cover the electricity, water and waste, gas, hydrogen, nuclear and the renewable energy markets. We follow the energy markets very closely and we produce a wide range of reports, databases and directories. We also answer very specific energy market information requirements with our energy market consulting and data services. Our energy market analysis and forecasts are independent and benefit from our wealth of experience and knowledge about the energy markets and extensive sources that we use. We provide information to a wide range of companies, associations, education and government bodies and organizations.

NRG Expert is a trading name of NRG Smarts Limited, registered in England & Wales with Companies House.

SERVICE FORMAT

- A report, delivered by email, will be distributed every weekend with the first one of the month being a monthly report and then the others being deemed weeklies.
- The monthly is more of a big perspective and is longer (about 23 pages).
- The weeklies are shorter and are (about 14-15 pages).
- Occasional midweek updates when deemed appropriate, (informal emails with about 2-3 paragraphs.)
- Reports issued (emailed) by midafternoon on Saturday but in any event before the NYMEX opens on Sunday evening.

PRICE & TERMS

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