



**NRGExpert**  
Energy Intelligence

## **PUBLICATION LIST**

Power and Infrastructure, Metering and Smart Grid, Utility Guides, Fossil Fuel and Conventional Energy, Renewable Energy, Water and Waste, Finance and Regulatory, Country Reports, Subscription-Based Services.

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## POWER AND INFRASTRUCTURE

### Power Generator Database and Market Intelligence

**Edition 1, 2012**

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.

Published April, 2012

Product Code: NRGPG1

**£2,950**

### New Global Power Generation Projects Database

**Edition 1, 2012**

This NRG Expert Database provides a by country listing of Global Electric Power Generation Projects proposed, under construction or awaiting commissioning. The database contains over 2870 entries.

Published July, 2012

Product Code: NRGNPG1

**£1,950**

### Energy Storage Report

**Edition 1, 2011**

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.

Published September, 2011

Product Code: NRGES1

**£950**

### Energy Security Report

**Edition 1, 2011**

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.

Published October, 2011

Product Code: NRGESY1

**£995**

## Electricity Transmission and Distribution Report and Database

**Edition 2, 2012**

This new NRG Expert market research report and database analyse the global Transmission and Distribution market, providing a general overview of the T&D industry. Our team of analysts, backed by the vast data we have collected, have created this industry analysis and forecasted data to 2016 for key sectors of the industry. The database is the main focus of the product and as such contains the important forecast information and current figures. The database consists of 1 **Global Data Summary** and 9 individual **Region** Microsoft® Excel (.xlsx) files. The report element of the T&D product presents a background to the Electrical Supply Industry giving an historical overview of the industry before delving deeper into the state of the industry at present and looking towards the future. As well as explaining the various sectors of the industry as defined by NRG Expert and used in the Database, the report provides a comparative overview of Annual Demand for T&D Equipment, Capital Expenditure and Installed Lengths for 36 of the 180 countries contained in the database.

Published October, 2012

Product Code: NRGTDR2

**£4,995**

## Electricity Transmission and Distribution Database

**Edition 2, 2012**

This new NRG Expert market research database provides current and forecast figures for the global Transmission and Distribution market. The database consists of 1 **Global Data Summary** and 9 individual **Region** Microsoft® Excel (.xlsx) files. The database can be purchased as a global file or each of the 9 individual region files can be purchased separately.

Product Code: NRGTD2

**£3,995**

## The Global High-Tech Power Market Report and Database

**Edition 1, 2012-2016**

The NRG Expert Global High-Tech Report and Database offers detailed forecasts and analysis of the High-Tech Electricity Transmission and Distribution power systems sector, defined as utility automation and power systems technology. It provides data and forecasts for annual demand and capital expenditure data for this sector and also includes the value of the T&D sector as a percentage of the whole smart grid market.

Product Code: NRGTDH1

**£1450**

## **The Global Power Infrastructure Market (Transformers, Switchgear & Substations) Report and Database**

**Edition 1, 2012-2016**

This NRG Expert report and database provides an analysis of the power infrastructure market, which includes transformers, switchgear & substations. It provides data and forecasts for this sector's annual demand, Capex and MVA Capacity.

Product Code: NRGTDH1

**£1450**

## **The Global Market for Cables, Towers & Insulators Report and Database**

**Edition 1, 2012-2106**

Electricity transmission and distribution networks are expanding rapidly and this is creating demand for cables, electrical insulators and transmission towers. A desire for grid stability and reliability has driven increasing investment in the power transportation market. To help companies forecast market size and identify opportunities, NRG Expert has published this report and database.

Product Code: NRGTDC1

**£1950**

## METERING AND SMART GRID

### Global Deployments of Utility Meters Report and Database

**Edition 2, 2012**

This NRG Expert Report and Database is an in-depth analysis of the Global Metering Markets. A global market that has over US\$12 billion set to be invested in 2015 alone for electricity metering alone. The report provides a comprehensive analysis of the worldwide multi-meter markets, and the database is a total overview of the market value for Electricity, Gas and water with 2011 actuals and forecasts to 2015 for over 180 countries where available. A worldwide by-country overview of the number of utility customers and the number of units sold with associated market value for Electricity, Gas and Water Meters.

Published July, 2012

Product Code: NRGMD02

**£2,995 (Report & Database)**

### Global Smart Grid Report

**Edition 1, 2011**

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.

Published September, 2011

Product Code: NRGSGR1

**£1,600**

### Energy Efficiency Report

**Edition 1, 2012**

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.

Published February, 2012

Product Code: NRGEE1

**£950.00**



## UTILITY GUIDES

### Global Guide to Natural Gas Utilities Report

**Edition 1, 2012**

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.

Published February, 2012

Product Code: NRGNRU1

**£995**

### Global Guide to Water and Waste Water Utilities Report

**Edition 1, 2012**

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.

Published April, 2012

Product Code: NRGWW1

**£850.00**

## FOSSIL FUEL AND CONVENTIONAL ENERGY

### Global Natural Gas Report

**Edition 1, 2012**

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.

Published February, 2012

Product Code: NRGNG1

**£1,200**

### Shale Gas Report

**Edition 1, 2011**

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.

Published September, 2011

Product Code: NRGSG1

**£650**

### Global Oil Reserves and Shale Oil Report

**Edition 1, 2012**

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.

Published April, 2012

Product Code: NRGSHO1

**£850**

## Oil Sands Report

**Edition 1, 2011**

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.

Published September, 2011

Product Code: NRGOSR1

**£650**

## Global Nuclear Energy Report

**Edition 1, 2011**

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 materializing, 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.

Published September, 2011

Product Code: NRGNR1

**£1,050**

## Coal and Clean Coal Report

**Edition 1, 2011**

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.

Published September, 2011

Product Code: NRGCR1

**£1,050**

## RENEWABLE ENERGY

### Wind Energy Report

#### Edition 1, 2011

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%.

Published September, 2011

Product Code: NRGWE1

**£1,950**

### Solar PV Report

#### Edition 1, 2012

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 acquisitions. 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.

Published August 2012

Product Code: NRGSPR1

**£1,200**

### Geothermal Report

#### Edition 1, 2011

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.

Published September, 2011

Product Code: NRGGT1

**£1,050**

## World Biofuels Report

**Edition 1, 2012**

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.

Published August, 2012

Product Code: NRGWB1

**£850**

## World Biomass Report

**Edition 1, 2012**

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.

Published August, 2012

Product Code: NRGBR1

**£850**

## Global Hydro Power Report

**Edition 1, 2011**

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.

Published September, 2011

Product Code: NRGHR1

**£1050**

## Global Ocean Energy Report

**Edition 1, 2012**

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.

Published August, 2012

Product Code: NRGOER1

**£650**

## Global Renewables Report

**Edition 1, 2012**

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

Published October 2012

Product Code: NRGRR1

**£1,050**

## **WATER & WASTE**

### **Global Guide to Water and Waste Water Utilities Report**

**Edition 1, 2012**

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.

Published July, 2012

Product Code: NRGWW1

**£850.00**

### **Global Desalination Report**

**Edition 1, 2012**

This NRG Expert Report provides a global overview of Desalination. It looks at water stress, future and current markets, rising demand for desalination, costs, advantages, current and future technologies and much more. Many parts of the world are experiencing severe water stress with limited fresh water supplies. In some parts of the world water use exceeds renewable water capacity – renewable water is defined as surface and underground water supplies that are replenished by rainwater. These regions often use non-renewable ground water supplies, which are also further down and require more energy to exploit, or exploit underground aquifers resulting in salt water intrusion. Increased industrialisation and urbanisation has also lead to ground water pollution in some regions.

Published July, 2012

Product Code: NRGDR1

**£1,050**



## FINANCE AND REGULATORY

### Electricity Deregulation Report

**Edition 1, 2012**

This NRG Expert report provides a by country look at the state of Electricity Deregulation on a Global Scale. The momentum towards liberalization of the electricity supply industry continues around the world but it proceeds at varying paces. As a region, only the EU is moving systematically in a coordinated manner, while other markets are developing new structures on an individual country basis. Some are calling for a return to government control to encourage decision making and planners should be aware of this potential hazard in the path to liberalization.

Published August 2012

Product Code: NRGED01

**£1,495**

### Water Deregulation Report

**Edition 1, 2012**

This NRG Expert report provides a by-country look at the state of deregulation of water utilities and suppliers in the world. Furthermore it gives an overview of the waste-water treatment suppliers per country. National and international regulations are presented along with an analysis of compliance per country or subdivision. The water and waste-water industry is worth an estimated US\$3 Billion each year and is becoming more and more open to private participation.

Published August 2012

Product Code: NRGED01

**£1,495**

### Gas Deregulation Report

**Edition 1, 2012**

This NRG Expert report provides a worldwide by-country look at the state of deregulation in the natural gas supply industry. It is increasingly apparent that deregulating energy markets is not easy. The path is full of pitfalls and very few countries which have embarked in this course are now where they thought they would be. The gas sector differs from the electricity sector in that not every country produces or uses gas, natural or manufactured, whereas every country generates and uses electricity. This report includes the 76 countries which are significant producers or significant consumers of natural gas. 49 of these countries produce natural gas and 66 consume it. Some of the producing countries are not significant consumers. The natural gas industry is relatively young compared with the other energy industries, coal, electricity, oil or manufactured gas. There are countries covered in this report which are significant producers but are only beginning to consume gas themselves. A few small consumers rely on shipped LNG requiring no high pressure transmission pipeline systems but only low pressure distribution pipes.

Published August 2012

Product Code: NRGED01

**£1,495**

## Global Regulator's Database

### **Edition 1, 2012**

This NRG Expert database contains a directory listing of the world's regulators. It provides you with contact details as well as a breakdown by sector of the regulators. There are over 400+ entries in the database, categorized by Gas, Electricity, Water, Heat, and Sewage Regulators, on a by country basis.

Published August 2012

Product Code: NRGRD01

**£400**

## COUNTRY REPORTS

### Global Energy Almanac – 200 Countries

#### Edition 1, 2012

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

**Petroleum & BioFuels:** Emissions from consumption, proven natural resources, petro-distillation capacity, petro-production & consumption, crude oil imports and exports, BioFuel production & consumption, fuel ethanol production & consumption, and Bio Diesel.

Up to 210 countries, each with its own Excel file, NRG Expert Almanac™ combines the power and flexibility of the entire NRG Expert Research house of data and intelligence together with valuable in-depth and often unpublished data collected by the NRG Expert Intelligence Unit with the convenience and control of a browser based system. Enjoy access to the entire NRG Expert Almanac™ with detailed tables, current and historical data and constant refreshment of content. With 24 hour real-time world-wide access\* from powerful and secure high speed servers located in Europe and the United States of America, and no software to download, you can leverage the power of NRG Expert Almanac™ to build your own energy market intelligence today.

#### Key Features

- Instant access to the entire NRG Expert Almanac, and updates.
- Available in a one-off download format, or annual subscription service.
- Ability to purchase individual country files, regions/groupings, or the World.
- Dynamic easy to use system with no software to download. On-line capability for viewing of Excel files from any web browser in the world, including smart phones, for no additional charge.
- Advanced search capabilities that allow the user to search files for key words and phrases.
- Ability to print & download all documents.
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- Excellent value for money compared to other Online and “Terminal” data services and providers.

#### Pricing – One-Off Purchase

Individual Country - £495

All G20 Countries - £2495

All EU Countries - £2495

All BRIC Countries - £1495

World - £4995

#### Pricing – Annual Subscription

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Initial 12 month contract £4995.

Thereafter, £400 charged monthly, or £4490 if paid annually in advance

**Multi Users** (2 - 5 Users in the same office)

Initial 12 month contract £9995.

Thereafter, £795 charged monthly, or £9450 if paid annually in advance

**Global Users** (6 or more Users)

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NRG Expert ONE SOURCE™ combines the power and flexibility of the entire NRG Expert Research house of report and database publications together with valuable in-depth and often unpublished data collected by the NRG Expert Intelligence Unit with the convenience and control of a browser based system. Enjoy access to the entire NRG Expert portfolio of current and historic reports and databases with advanced analytics, detailed charting, current and historical data and constant refreshment of content. With 24 hour real-time world-wide access\* from powerful and secure high speed servers located in Europe and the United States of America, and no software to download, you can leverage the power of NRG Expert ONE SOURCE™ to build your own energy market intelligence today.

#### Key Features

- Instant access to the entire portfolio of all NRG Expert Energy Reports and Databases, with all new titles added on the day of publication.
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- Advanced search capabilities that allow the user to search all NRG Expert products for key words and phrases.
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- Advanced search capabilities that allow the user to search all NRG Expert products for key words and phrases.
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## NRG Expert Tracker - Natural Gas 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.

### 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**

320GBP/\$500US per calendar month fee based on a 1-3 user license

500GBP/\$800US per calendar month for an office license

650GBP/ \$1000US per calendar month for an inter-office global license.

VAT at the current UK rate will be charged to all customers based in the United Kingdom and the European Union, where applicable

Please see Order Form for further payment details.

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Job Title ..... Department .....

Company .....

Address .....

Postal Code ..... City ..... State/Prov .....

Country: ..... E-mail .....

Tel: ..... Fax: .....

Product Name	Product Code	Price
<b>20% VAT (if applicable)</b>		
<b>Total</b>		

VAT Number (EU Businesses only) .....

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### Delivery Options

Hard Copy <sup>1, 2</sup>     
 Electronic Download <sup>1</sup>     
 Both <sup>1, 2</sup>

**<sup>1</sup>Additional Charges:**

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**<sup>2</sup>Hard Copy:** UK - £120, Europe - £180/€200 Rest of World - £240/\$330 (all prices include delivery and are subject to change)

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Cheque enclosed (made payable to NRG Smarts Limited)      
 Credit Card      
 Bill me   
 Visa       MasterCard

Card Number ..... Expiry date .....

CVC/Signature code (last 3 numbers on back of card) .....

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Company .....

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Postal Code ..... City ..... State/Prov .....

Country: ..... E-mail .....

Tel: ..... Fax: .....

Almanac Country/Package or Subscription Service	Quantity or User Package	Price
Please refer to the Subscription Tariff Card for complete pricing details.	<b>20% VAT (if applicable)</b>	
	<b>Total</b>	

VAT Number (EU Businesses only) .....

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### Payment Options

	<b>One-Off Order</b>	<b>Annual Subscription</b>
<b>Invoice</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Credit Card</b>	<input type="checkbox"/>	<input type="checkbox"/> <sup>1</sup>
	Visa <input type="checkbox"/> MasterCard <input type="checkbox"/>	
Card Number .....	Expiry date .....	
CVC/Signature code (last 3 numbers on back of card) .....		

Date: ..... Signature .....

<sup>1</sup> By signing the above, in the case of a **Monthly Subscription Plan**, I hereby authorize NRG Smarts Limited to charge my credit card for an initial 12 (twelve) month Subscription thereafter to be renewed on a monthly basis until I cancel my Subscription in accordance with the NRGExpert Subscription Agreement Terms & Conditions. In the case of an **Annual Subscription Plan**, I hereby authorize NRG Smarts Limited to charge my credit card for the costs associated with a full 12 (twelve) month Subscription thereafter to be renewed on a monthly basis until I cancel my Subscription in accordance with the NRGExpert Subscription Agreement Terms & Conditions.

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Job Title ..... Department .....

Company .....

Address .....

Postal Code ..... City ..... State/Prov .....

Country: ..... E-mail .....

Tel: ..... Fax: .....

Name of Subscription Service	Product Code	Price per Month
Please refer to the Subscription Tariff Card for complete pricing details.	<b>20% VAT (if applicable)</b>	
	<b>Total</b>	

VAT Number (EU Businesses only) .....

*Where applicable, UK VAT at 20% should be added for all purchases made from the United Kingdom or European Union. VAT Registered business customers within the European Union (Excluding UK) may enter a valid VAT number above and exclude VAT.*

### Subscription and Payment Options

	<b>Monthly</b>	<b>Annual</b>
<b>Invoice</b>	n/a	<input type="checkbox"/>
<b>Credit Card<sup>1</sup></b>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Visa	<input type="checkbox"/> MasterCard
Card Number .....	Expiry date .....	
CVC/Signature code (last 3 numbers on back of card) .....		

Date: ..... Signature .....

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## NRG EXPERT TRACKER ORDER FORM

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 Last Name: ..... Suffix .....  
 Job Title ..... Department .....  
 Company .....  
 Address .....  
 Postal Code ..... City ..... State/Prov .....  
 Country: ..... E-mail .....  
 Tel: ..... Fax: .....

Name of Subscription Service	Product Code	Price per Month
Please refer to the Subscription Tariff Card for complete pricing details.	<b>20% VAT (if applicable)</b>	
	<b>Total</b>	

VAT Number (EU Businesses only) .....

*Where applicable, UK VAT at 20% should be added for all purchases made from the United Kingdom or European Union. VAT Registered business customers within the European Union (Excluding UK) may enter a valid VAT number above and exclude VAT.*

### Subscription and Payment Options

	<b>Monthly</b>	<b>Annual</b>
<b>Invoice</b>	n/a	<input type="checkbox"/>
<b>Credit Card<sup>1</sup></b>	<input type="checkbox"/>	<input type="checkbox"/> <b>(5% discount on first year<sup>2</sup>)</b>
	Visa <input type="checkbox"/> MasterCard <input type="checkbox"/>	American Express <input type="checkbox"/>
Card Number .....	Expiry date .....	
CVC/Signature code (last 3 numbers on back of card) .....		

Date: ..... Signature .....

<sup>1</sup> By signing the above, in the case of a **Monthly Subscription Plan**, I hereby authorize NRG Smarts Limited to charge my credit card for an initial 3 (three) month Subscription thereafter to be renewed on a monthly basis until I cancel my Subscription in accordance with the NRGExpert Subscription Agreement Terms & Conditions. In the case of an **Annual Subscription Plan**, I hereby authorize NRG Smarts Limited to charge my credit card for the costs associated with a full 12 (twelve) month Subscription thereafter to be renewed on a monthly basis until I cancel my Subscription in accordance with the NRGExpert Subscription Agreement Terms & Conditions.

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# Terms & Conditions of Sale

## Terms of Use Online & Offline orders

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The prices payable for the reports and databases ("Publications") that you order are clearly set out in the Site. If, by mistake, we have under-priced an item, we will not be liable to supply that item to you at the stated price, provided that we notify you before we dispatch the item concerned. The price of the items does not include the delivery charge (if applicable) which will be charged at the rates applicable at the date you place your order and which will be displayed to you at the time you place your order. Where Publications are ordered pre-publication, an estimated retail price will be given, in which case the price charged may be different, as the order may have been placed as much as three months prior to publication.

All prices are expressed exclusive of any UK VAT or other taxes payable unless otherwise stated. UK VAT is NOT applicable and will NOT be charged to any customer making a purchase from outside the European Union. VAT registered business customers inside the European Union who wish NOT to be charged UK VAT cannot currently use the online ordering system; these customers should print out and submit an offline Order Form containing their valid EU VAT number so that an appropriate invoice can be raised without UK VAT being charged on the purchase. Any other qualifying customer (diplomatic missions and qualifying international organisations) wishing to make VAT free purchases should also follow the aforementioned procedure.

### 2. Availability

If for any reason beyond our reasonable control, we are unable to supply a particular item, we will notify you as soon as possible. You may not purchase or otherwise access the Publications if you are our competitor (direct or otherwise), except with our prior written consent. In addition, you may not purchase or otherwise access the Publications for purposes of monitoring their availability, performance or functionality, or for any other benchmarking, legal or competitive purposes.

### 3. Acceptance

For online delivery orders only, there will be no contract of any kind between you and us unless and until we actually dispatch the goods to you. At any point up until then, we may decline to supply the goods to you without giving any reason. At the moment that the goods are dispatched (and not before), a contract will be made between you and us, and you will be charged for the goods.

### 4. Delivery

Online delivery will be made to the email address specified by you on the completed order form. We will do our best to secure delivery within 30 days of the date of your order (with the exception of Publications that have not been published yet) but shall not be liable for loss occasioned by delay in delivery arising

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- Available immediately or "online"- dispatched within 24 hours of the order being received, most orders are dispatched as soon as your credit card has been accepted.
- Temporarily out of stock - normally dispatched within 5 days of the order being received
- Special order - normally dispatched within 10 days of the order being received
- Not yet published - item will be dispatched as soon as possible after publication.

If you order Publications with different availability dates, you can choose to have all the Publications held until the last Publication is delivered. If you do not choose this option, each Publication will be delivered separately, and you will be charged a delivery charge each time.

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The cost of your goods includes a transaction fee that is payable to Paypal.

Our liability to you in connection with any order will not exceed the total price charged for the relevant items.

Please ensure that the expiry date of your payment card is after the anticipated despatch date of your order. Payment is taken at the point of despatch for goods and in the event that the payment card has expired we will be unable to take payment and fulfil your order.

We do not store credit card details nor do we share customer details with any 3rd parties

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### **1. Prices**

The prices payable for the reports and databases ("Publications") that you order are clearly set out in the Site and any brochure or price list that we may publish from time to time. If, by mistake, we have under-priced an item, we will not be liable to supply that item to you at the stated price, provided that we notify you before we dispatch the item concerned. The price of the items does not include the delivery charge (if applicable) which will be charged at the rates applicable at the date you place your order and which will be displayed to you at the time you place your order. Where Publications are ordered pre-publication, an estimated retail price will be given, in which case the price charged may be different, as the order may have been placed as much as three months prior to publication.

All prices are expressed exclusive of any UK VAT or other taxes payable unless otherwise stated. UK VAT is NOT applicable and will NOT be charged to any customer making a purchase from outside the European Union. VAT registered business customers inside the European Union who wish NOT to be charged UK VAT must submit their valid EU VAT number on their Order Form so that an appropriate invoice can be raised without UK VAT being charged on the purchase. Any other qualifying customer (diplomatic missions and qualifying international organisations) wishing to make VAT free purchases should also follow the aforementioned procedure.

### **2. Availability**

If for any reason beyond our reasonable control, we are unable to supply a particular item, we will notify you as soon as possible. You may not purchase or otherwise access the Publications if you are our competitor (direct or otherwise), except with our prior written consent. In addition, you may not purchase or otherwise access the Publications for purposes of monitoring their availability, performance or functionality, or for any other benchmarking, legal or competitive purposes.

### **3. Acceptance**

For offline delivery orders only, there will be no contract of any kind between you and us unless and until we receive a confirmed credit card authorisation or a Purchase Order, and we accept such purchase order. At any point up until then, we may decline to supply the goods to you without giving any reason. At the moment we accept your order (and not before), a contract will be made between you and us, and you will be charged for the goods.

### **4. Delivery**

Offline orders will be delivered to the address and/or email address specified by you on the completed order form. We will do our best to secure delivery within 30 days of the date of your order (with the

exception of Publications that have not been published yet) but shall not be liable for loss occasioned by delay in delivery arising out of any cause beyond our control. Each report that you order will have an "availability date". This will be one of the following:

- Available immediately - dispatched within 24 hours of the order being received, most orders are dispatched as soon as your credit card or purchase order has been accepted.
- Temporarily out of stock - normally dispatched within 5 days of the order being received
- Special order - normally dispatched within 10 days of the order being received
- Not yet published - item will be dispatched as soon as possible after publication.

If you order Publications with different availability dates, you can choose to have all the Publications held until the last Publication is delivered. If you do not choose this option, each Publication will be delivered separately, and you will be charged a delivery charge each time. If for any reason beyond our reasonable control, we are unable to supply a particular item, we will notify you as soon as possible.

## **5. Cancellation**

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Publications can only be returned with the express written consent of NRG Smarts Limited. We will accept returns for hardcopy Publications that have been damaged in transportation. All claims must be made in writing within 48 hours of delivery. This does not affect your statutory rights.

## **7. Payment**

You can pay using Major Credit Cards. Authority for payment must be given at the time of order. You will be charged for items when you place your order, unless otherwise agreed. All credit/debit card orders will be charged at the Sterling rate. You can also pay by cheque or bank transfer, subject to the receipt of an acceptable purchase order by NRG Smarts Limited. We also accept orders over the telephone, subject to our approval. Our liability to you in connection with any order will not exceed the total price charged for the relevant items. Please ensure that the expiry date of your payment card is after the anticipated despatch date of your order. Payment is taken at the point of despatch for goods and in the event that the payment card has expired we will be unable to take payment and fulfil your order.

We do not store credit card details nor do we share customer details with any 3rd parties

## **8. General**

These Product Terms shall be governed by and construed in accordance with the laws of England and Wales and any disputes will be decided only by the English courts. If any of these Product Terms is held by any court of competent authority to be unlawful, invalid or unenforceable, in whole or in part, this will not affect the validity of the remaining Product Terms which will continue to be valid and enforceable to the fullest extent permitted by law.

## **9. Customer Services**

If you have an order query, please e-mail us at [sales@nrgexpert.com](mailto:sales@nrgexpert.com)

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