

"renewables made in Germany" Newsletter March 2008

Dear Madame, Dear Sir,

thank you for your interest in German renewable energy technologies and welcome to the first edition of the "renewables made in Germany" newsletter in 2008. This service is brought to you by the Deutsche Energie-Agentur GmbH (dena) – the German Energy Agency, supported by the German Ministry of Economy and Technology.

Today's issue features articles on the following topics:

- Current developments in the field of renewable energy around the world
- Interesting projects and applications in renewable energy
- State-of-the-art German technologies and services for using renewable energy sources
- Opportunities and events in the field of RE

We hope you enjoy reading this issue.

The Renewable Energy Division of dena.

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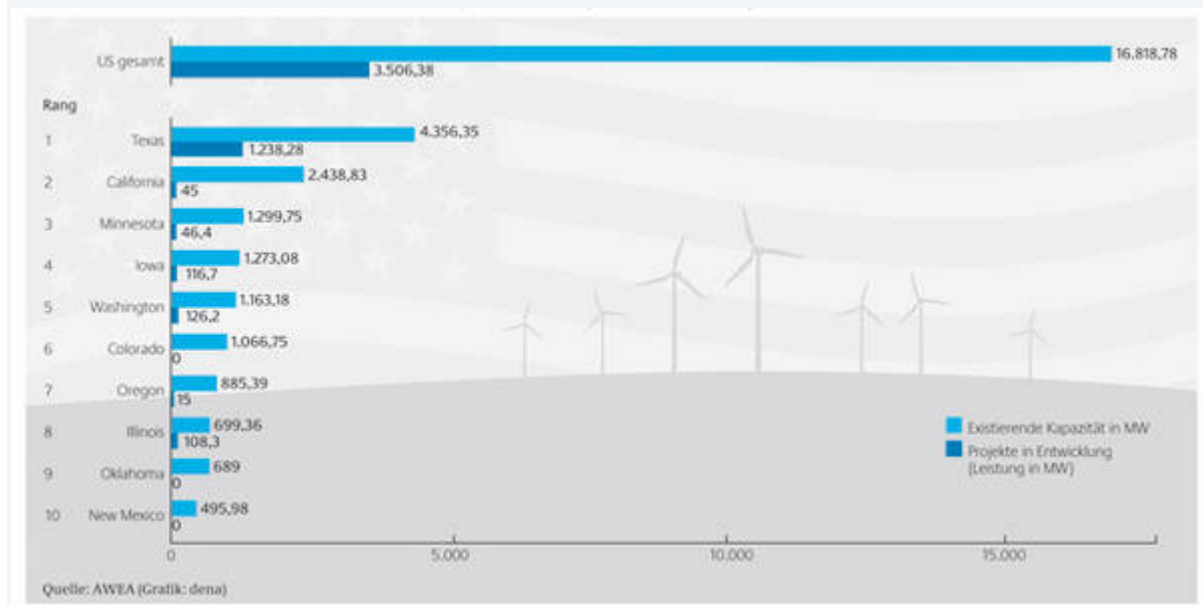
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1. Wind energy is booming in the US

The USA maintained its leading position as the world's fastest growing wind energy market in 2007 with 5,244 megawatts of newly installed capacity. The market grew 45% compared to 2006. The development is mainly driven by a number of states with excellent natural potential for generating wind power. Leading the way in the national rankings are Texas (1,618 MW), Colorado (776 MW), Illinois (592 MW), Oregon (447 MW) and Minnesota (405 MW). Because production capacity for turbines and turbine components is comparatively low in the USA, many international companies are profiting from the boom. The majority of components was imported from Denmark, Spain and Japan. The German wind power industry increased its share of the US American wind energy business from 4.6% in 2006 to 11.9% in 2007. In the meantime, the power plant manufacturer Repower has set up a branch office in Portland, Oregon, and Siemens Wind Power has built a rotor blade factory in Fort Madison, Iowa.

The boom on the US American wind energy market has been triggered by the combination of federal production tax credits (PTC) for operators of renewable energy generation plants and state-level renewable portfolio standards (RPS). RPSs stipulate a minimum proportion of renewable energies for energy supply companies to maintain in their total energy production. 25 of the 50 states have already introduced RPSs with quotas between 4% and 25%. In contrast, the nationwide production tax credit runs out at the end of the year. A decision on its extension is yet to be reached. The American Wind Energy Association (AWEA) is calling for prompt ratification by the US senate of an economic stimulation programme drafted by the finance committee, that includes the extension of the PTC.

Development of the wind market in the US (in MW / Date: 2008-01-16)



Existing capacity: light blue / Projects in pipeline: deep blue

2. California introduces feed-in tariffs for green electricity

The California Public Utility Commission adopted feed-in tariffs for electricity sourced from renewable energy with effect of 31 January 2008. Dependent on the contract, remuneration can be between 8 and 31 US cents for up to 15 years. For example owners of solar power systems in California can enter into a feed-in contract with their energy supply company. Among other things, the tariff amount depends on the time of day when the electricity is fed into the grid. Electricity from photovoltaic systems is remunerated at a higher rate than electricity from other renewable energy systems. In addition, upper limits with regard to total installed capacity apply. System owners who profit from feed-in tariffs cannot receive further subsidies from other funding support programmes run by the State of California.

3. South Africa afflicted by energy crisis

Lower than expected coal deliveries, technical problems and repair work led to severe power failures in February. According to the state power supplier Eskom, at times the shortfall was one quarter of the maximum generation capacity of 37,000 megawatts. South Africa suffers from an obsolete power plant mix that can hardly meet the growing demand for electricity. Power shortages are also anticipated in the coming years. A major factor is the slow progress in building new power plants due to an overloaded local construction industry. However, the use of renewable energy sources is being increasingly discussed. Despite the enormous potential, the country has hardly made use of solar power to date. With its Solar Roof Programme, dena is contributing to support market introduction for solar technology worldwide. As part of the programme, German company Schüco will install three solar systems on the roof of the German International School in Johannesburg in the early part of this year: one 3.2 kW photovoltaic system and two different systems for warm water provision.

4. New Incentives for the German heat market

In 2007, investments in new residential heating systems dropped significantly. There are a number of reasons for the decline in sales. The abolition of grants for new home owners brought about a 50% decline in the new building sector. Many consumers hurried to install new heating systems in 2006 as to avoid the higher value added taxes that came into effect in 2007. In addition, the low price of oil in the autumn of 2006 plus the mild winter deterred consumers from converting their old heating systems, because their oil storage tanks were not empty.

In 2006 renewable heat production had a share of 6.0 % of final energy consumption (2005: 5.4 %). The general recession in the German heating market did not spare the pellet sector in 2007. The number of pellet systems, with capacities between 8 and 100 kilowatts, subsidised in 2007 sank to just below 8,000 compared to around 25,000 in 2006. The German government reacted to the dwindling market by increasing the subsidy for pellet boilers from € 1,500 to € 2,000 in its market stimulation programme, with effect of 1 January 2008. From that point on, systems equipped with a storage tank will receive a minimum subsidy of € 2,500. People who combine their pellet heaters with a solar thermal system will also receive a € 750 bonus. Helmut Lamp, chairman of the Federal Association of Bioenergy, considers the increase in subsidy rates to be the right move to open up the enormous potential in the biogenic heat market. He anticipates a market expansion in bioenergy from 5.8% of the overall heat market in 2006 to a minimum of 10% by 2020.

More Information on solid biomass: www.renewables-made-in-germany.com/en/feste-biomasse/

5. French pellet market takes off

The pellet market in France has developed rapidly in recent years with a growth rate of over 400%. In 2004 only 210 pellet boilers were installed, by 2005 it was up to 895, and in 2006 there were 4,690 pellet heating systems. The demand, which at first was mainly restricted to the two regions of Alsace and Rhône-Alpes, has now spread throughout the whole country. Primarily, the market has been stimulated by state financial support. Every buyer of a pellet system receives a 50% tax allowance of the cost of the boiler. Regional subsidies in addition are granted. Moreover, ever increasing numbers of European boiler manufacturers are active in the French market, so the buyer can choose from a larger range of products. The local supply of pellets has also improved. Production increased from 120,000 tonnes in 2006 to some 200,000 tonnes in 2007.

6. renewables made in Germany - products and services

German renewable energy technologies have an excellent reputation both at home and abroad. Many years of experience and countless references around the world make "renewables made in Germany" a reliable source to meet your project needs. www.renewables-made-in-germany.com provides information about German renewable energy industries, companies and products. In the following you will find an excerpt from the website with several representatives from the industry:

More Information: www.renewables-made-in-germany.com/en/solid-biomass/

[HDG Bavaria GmbH](#)

Heating with wood – a convenient solution. The headquarters and production facilities of HDG Bavaria GmbH are located in Bavaria, Germany. With a staff of one hundred and eighty, the company manufactures wood-heating systems for farmers, foresters, private homes, wood-working enterprises, communities, hotels and guesthouses.

[AGO AG Energie + Anlagen](#)

As a comprehensive project developer, AGO supports clients in all areas concerning the provision of energy and utility services. In addition to specialist consultation, design and execution, these also include operation of complete installations and power plants.

7. Know-how transfer worldwide: Technology exhibition now available in Arabic!

Since 2004 the technology exhibition of the Renewable Energy Export Initiative describes the various renewable energy sources on 26 exhibition boards and highlights the leading technological role played by German companies. Besides English and Spanish, the exhibition is now also available in Arabic. A new English language brochure accompanies the exhibition which is shown at international events with the participation of German embassies and chambers of commerce abroad as well as institutions such as the

GTZ or the Goethe Institute. The exhibition boards are also on show at joint stands, international trade fairs as well as conferences and industrial days. Since the first edition in 2004 the exhibition has already been shown in over 70 countries on more than 220 important events.

If you are interested to showcase the exhibition please contact:

Mr. Martin Boltz, Deutsche Energie-Agentur GmbH (dena) – The German Energy Agency
Tel. + 49 (0)30 726165 -619, E-Mail: boltz@dena.de

8. International networking exchange for renewable energy technologies

Are you looking for information about German renewable energy technologies? At the online forum of "renewables made in Germany", German companies and institutions will answer all of your questions. In addition, you can make interesting contacts and find valuable partners for your project ideas. We look forward to you visiting us at www.renewables-forum.com

9. The German Federal Ministry of Economics and Technology takes "renewable energy technologies" abroad

Another opportunity to make contact with German companies in the renewable energy technology sector is to attend the trade fairs organised by the Federal Ministry of Economics and Technology. Come along to the German community stand to talk directly to German companies and receive information about the latest technologies.

Date	Location	Fair
2008-03-04 – 2008-03-03-	Washington, USA	WIREC
2008-04-07 – 2008-04-10	Sofia, Bulgaria	International Exhibition on Energy Efficiency and Renewable Energy Sources
2008-04-16 – 2008-04-04-	Nürnberg, Germany	IFH/INTHERM
2008-05-13 – 2008-05-16	Celje, Slovenia	ENERGETIKA & our HOME – International Fair von Energy
2008-05-21 – 2008-05-23	Daegu, South Korea	Green Energy Expo – New & Renewable Energy – Environment – Friendly Energy

10. Get in touch - "renewables made in Germany" business trips

Are you looking for contacts to experienced German companies in the renewable energy sector or more information about renewable energy technology from Germany? -If so, the German Chambers of Commerce (AHK) in your country may be able to help you. As part of the "renewables made in Germany" programme, delegations of German business representatives from the renewable energy sector travel to all parts of the world to showcase their expertise and products and to explore possibilities for future cooperation.

Each event includes a one-day seminar where you receive information about current developments in renewable energy technology and the products of the Germany companies that are represented. If you want to get in touch with individual companies then the German Chamber of Commerce Abroad in your country can act as a liaison.

The following table shows all the dates and countries that are part of the trade mission for 2007. If you are interested in attending one of these events or require more information, please contact the relevant German Chamber of Commerce Abroad: www.ahk.de

For more information: renewables@dena.de

Preview: "renewables made in Germany" business trips / First half of 2008

Target Market	Location	Period	Seminar/Presentation	Technology
Argentina	Buenos Aires	2008-06-02 – 2008-06-06	2008-06-03	Biomass, solarenergy
Austria	Vienna	2008-05-28 – 2008-05-30	2008-05-28	All technologies
Canada	Toronto	2008-04-07 – 2008-04-13	2008-04-07	Solarenergy
Central America	Guatemala City	2008-04-07 – 2008-04-11	2008-04-08	All technologies
China (Guangdong)	Guangzhou	2008-03-31 – 2008-04-04	2008-04-01	Solarenergy
China (Peking)	Peking	2008-06-09 – 2008-06-13	2008-06-10	Bioenergy in forestry
France	Paris	2008-03-31 – 2008-04-02	2008-04-01	Biofuels
Great Britain	London	2008-05-19 – 2008-05-21	2008-05-20	Biomass
Hungary	Budapest	2008-04-14 – 2008-04-16	2008-04-14	Bioenergy
Italy	Gonzaga/Mantova	2008-03-31 – 2008-04-04	2008-04-02	Bioenergy
Morocco	Casablanca	2008-05-05 – 2008-05-07	2008-05-06	Windenergy, biogas, solarenergy
Netherlands	the Hague	2008-04-16 – 2008-04-17	2008-04-16	Biomass
Slovenia	Ljubljana	2008-04-14 – 2008-04-16	2008-04-15	Geothermal energy, solarenergy, biogas
South Korea	Seoul	2008-05-13 – 2008-05-16	2008-05-15	Solarenergy, windenergy
Spain	Madrid	2008-05-27 – 2008-05-29	2008-05-27	Bioenergy
Tunesia	Tunis	2008-06-16 – 2008-06-18	2008-06-17	Solarenergy in tourism
USA (California)	San Francisco	2008-05-26 – 2008-05-30	2008-05-27	Photovoltaics
USA (New York)	Syracuse	2008-06-23 –	2008-06-24	Bioenergy

Target Market	Location	Period	Seminar/Presentation	Technology
		2008-06-27		

11. German-Hungarian workshop on renewable energies

The Federal Ministry of the Environment and dena organised a German-Hungarian workshop on renewable energies from 5th to 8th February 2008. Over the three days of the seminar, ministerial representatives and energy experts from both countries discussed subsidy policy, technology, EU directives and the financing of renewable energies. The programme was supplemented by visits to power plants. Included in the programme were the Mitte CHP plant in Berlin, the geothermal power plant in Neustadt-Glewe and the Repower production site in Trampe.

12. April 21-25 2008: Hannover Trade Fair 2008: Renewable Energy Industry and Export Forum

The leading trade fair Energy, which forms part of the line-up for HANNOVER MESSE 2008, will once again be the most important event of the year for the international energy industry. The leading international trade fair will provide an overview of the complete market of technologies and services from energy generation, supply, transfer and distribution to its application. Renewable energy sources will play a significant role on this international platform. Information on exhibitors and registration documents can be found here.

On April 22 international visitors are welcome to join the "Renewables Forum Germany". The event offers a unique opportunity for networking and information exchange.

Location: Hall 13, Stand Number 56; participation for free/no registration required

More Information: www.hannovermesse.de/energy_e

13. WORLD ENERGY DIALOGUE – Where Future meets Solutions

The third WORLD ENERGY DIALOGUE (22 and 23 April 2008) - as part of the HANNOVER MESSE 2008 - is held under the central theme "The Future of Power Plants and Grids". The program of lectures and panel discussions under this tagline will be particularly focused on the aspects of integration of decentralized energy generation, energy efficiency, the energy mix and power plant parks of the future.

This third global energy summit will serve as a platform for leading energy experts, industrialists, key policymakers and scientists - to pose questions - and propose solutions - relating to the vital energy issues of our times. Further information about the program is available in the pdf-file below:

More Information: "[WED Programme](#)"

The WORLD ENERGY DIALOGUE is being held by the Federation of German Industries (BDI), Deutsche Energie-Agentur (dena) - the German Energy Agency and Deutsche Messe.

For registration please use the following form: "[Registration](#)"

One highlight of the WORLD ENERGY DIALOGUE is the presentation of the second international "Energy Efficiency Award" at the opening ceremony by the German Federal Minister of Economics and Technology. This award will honor companies from industry and trade who have invested in innovative, exemplary measures to increase energy efficiency in their company. In this context Werner Genter, Senior Vice President, KfW Bankengruppe (KfW banking group), will point out the importance for SMEs to promote energy efficiency.

14. New edition of international yearbook WIND ENERGY INTERNATIONAL 2007/2008 is now available

This international yearbook for wind energy gives an comprehensive and updated overview of the current state of wind energy utilisation around the world. It is published by the World Wind Energy Association WWEA. It contains Country Reports with basic and up-to-date information on 66 countries providing a

comprehensive overview of the status of wind power in the world regions and 36 Special Reports on the most important aspects of the international wind energy deployment, for example financing and education. Contributors are leading wind energy experts from national wind energy associations, international organisations, industry, science, and governments.

- - 344 pages, numerous tables, pictures, graphics
- - Price: 90 EUR, rebates for WWEA members and bulk orders
- - Order form, table of contents and more information: www.wwindea.org

Service and editorial information

For more information about German technologies and manufacturers in the renewable energy industry, see our website www.renewables-made-in-Germany.com.

Editorial information

[Deutsche Energie-Agentur GmbH \(dena\) - German Energy Agency](#)

Chausseestr.128a
10115 Berlin, Germany

Tel: +49 (0)30 72 61 65 - 600

Fax: +49 (0)30 72 61 65 - 699

E-mail: renewables@dena.de

Internet: www.renewables-made-in-germany.com

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