

# La Provence WINDY MARSEILLE

THE EUROPEAN WIND ENERGY ASSOCIATION - communication@ewea.org - www.ewea.org

Tuesday 17 March 2009



## EU getting ready for big wind power hike

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## NEW PRESIDENT, NEW ERA

Obama on the economy, energy and the environment

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## WHAT THE CAMERA SAW

Conference photos from Monday

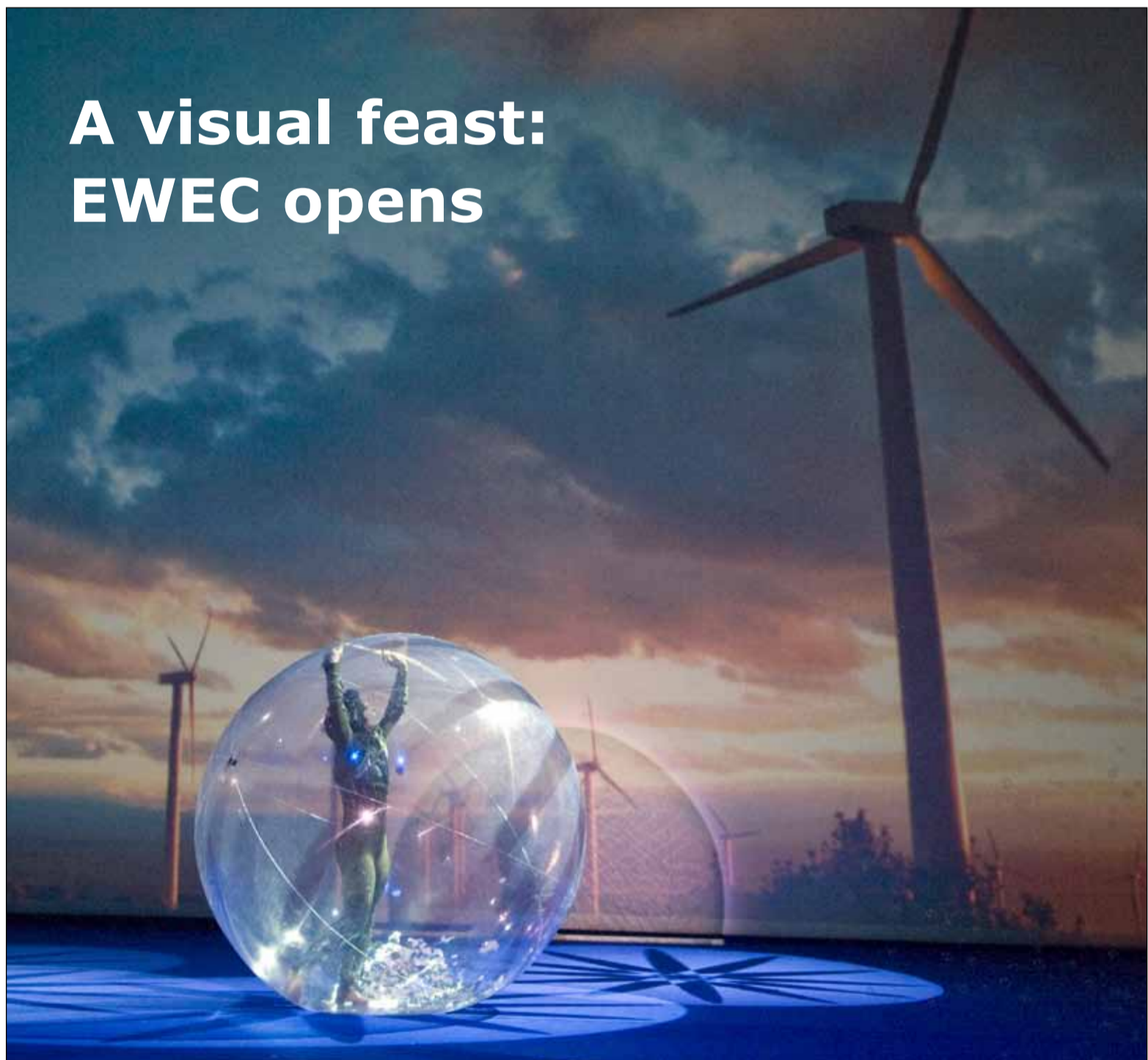
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## COUNTING ON THE ENVIRONMENT

Introducing the EWEC 2009 environmental counter

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## A visual feast: EWEC opens



▶ A hushed audience watched expectantly Monday as EWEC 2009 opened in Marseille with a stunning display of dance, gymnastics and costumes. See page 4.

## CFD++<sup>WPS</sup> - A fully automatic CFD tool for Siteing Analysis

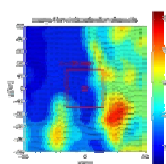
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**EWEC Hall 3, booth 3436**



# EU getting ready for big wind power hike



EWEA's Justin Wilkes says new infrastructure will bring net economic benefits

Wind power is more important than ever before now the European Union has agreed to ambitious differentiated national binding targets for renewable energies to be reached by 2020 and that Member States implement legislation to achieve their targets.

Yet the continued expansion of wind power in Europe in the next 12 years and beyond will require new infrastructure and interconnectors, improved operation of the grid and, indeed, improved access to the grid in the first place.

It is vital Europe works towards establishing adequate

political and regulatory environments to ensure that infrastructure, and indeed the power market, is planned, developed, upgraded and operated with large scale wind energy in mind. Development plans need to focus on integrating the large quantities of wind power expected. Fortunately the National Action Plans to be published by each EU country in June 2010 will outline the expected contribution wind power, and all other renewable technologies, will make to meeting their national renewable target.

Given the European nature of an offshore grid, it is necessary the European Commission develops an offshore grid (North Sea, Baltic Sea, Irish Sea, Mediterranean, etc.), not only to meet the renewable targets, but also as a potential powerful solution to several EU objectives, including increased renewable energy production, improved electricity market competition, technology leadership, reduced need for balancing and backup capacity, reduced environmental impacts, contribution to meeting EU Kyoto targets, development of our indigenous resource base and reduced fuel price risk.

In order to transmit the vast potential of offshore wind it is important to identify as a prior-

ity necessary onshore grid upgrades. The TradeWind project is a very useful start to this process and it identifies 42 important onshore transmission upgrades.

**"Development plans need to focus on integrating the large quantities of wind power expected."**

In order to achieve these infrastructure projects the Commission must beef up its Trans-European Energy Network (TEN-E) work and the National Regulatory Authorities must facilitate the integration of wind power into the network rather than slow it down, as currently often happens.

System operators need to improve their system management and cooperation so that curtailment of wind power is minimised, not only in order to allow wind power to reduce electricity prices, but also to displace the more marginally expensive and CO<sub>2</sub>-emitting technologies. Aggregation of systems and demand side management are vital tools the system operators should employ in order to develop efficient power markets friendly towards wind power. Europe needs to work towards reduced gate-closure times, and a regulatory environment that minimises the balancing costs of wind farm operators, potentially through the use of market mechanisms.

Further activities are necessary to overcome barriers that remain for wind power, particularly access to the grid (connection charges, lead times) and administrative and planning procedures. The European Commission needs to continue to identify, and tackle, such barriers.

**Justin Wilkes**  
Head of Regulatory Affairs,  
EWEA



# Obama's green revolution will benefit European wind industry

President Barack Obama may not be in Marseille shaking hands and making the rounds at our conference, but chances are that delegates attending EWEC 2009 will at one time or another be thinking about whether he will be able to deliver on his promised new green revolution.

Repeatedly during the American election campaign and since he took office on 20 January, Obama has vowed to aid the ailing economy, promote the use of wind power and other renewables and help to save the planet.

"Everywhere we look, there is work to be done," Obama said in his inaugural speech.

"The state of our economy calls for action, bold and swift. And we will act, not only to create new jobs, but to lay a new foundation for growth. We will build the roads and bridges, the electric grids and digital lines that feed our commerce and bind us together.

"We'll restore science to its rightful place, and wield technology's wonders to raise health care's quality and lower its cost. We will harness the sun and the winds and the soil to fuel our cars and run our factories. And we will transform our schools and colleges and universities to meet the demands of a new age. All this



we can do. All this we will do."

Despite an understandable expectation level, Obama won't be able to produce a quick-fix solution to the deepening financial crisis, create millions of new jobs, implement radical changes to the U.S. energy system through a dramatic increase in renewables and wean the world's largest economy off its addiction to burning fossil fuels which are responsible for global warming.

Yet from the earliest days of his presidency, Obama committed America to a pathway of transformative change.

And his revolution picked up speed on 13 February when congressional leaders approved an economic stimulus plan totalling \$789 billion, described by The New York Times as "the most expansive unleashing of the government's fiscal firepower in the face

of recession since World War II."

The American Wind Energy Association (AWEA) said that the stimulus package, which was watered down slightly at the last moment to secure enough votes, includes several provisions designed to create incentives for wind and other renewable energy industries.

The American bill will likely also be endorsed by EWEC participants looking for evidence of a new and better tomorrow, a future that includes a significantly larger role for wind power. They might not be able to discuss their thoughts with Obama, but they'll surely be wondering how far, and how quickly, his green revolution will spread. After all, the European wind power industry, with 66% of the global market, has a vested stake in Obama's plans as well. /cr

## DON'T MISS TODAY

### SESSIONS

Check out the full conference programme for sessions on:

- Business and policy
- Science
- Technology
- Finance

### POLICY BRIEFING

EU Renewable Energy Directive  
Members' Lounge 10:30

### SOCIAL EVENTS

EWEA members spotlight  
Exhibition Hall EWEA stand (2532) 16:30

Exhibition Reception  
Exhibition Hall 1 Gamesa stand (1530) and catering areas in Exhibition Halls 2 and 3 17:30

### SIDE EVENTS

Mainstream Renewable Power: The Friends of the Supergrid  
'How the supergrid is really going to be built' 9:30

EADS and Bordeaux region: Innovative and reliable wind rotor blades 10:30

Small scale wind energy application in rural areas 11:00

Avancos: With Growth, comes Pain - Targeted HR solutions to attract talent for the wind energy sector 12:30

Coordination Office of Wind Energy. Regional planning of wind energy projects: asset or handicap for the climate policy? A comparison between Germany and France. 14:00

Wind turbine simulation using S4WT 14:00

Development of the offshore grid in the Baltic/North Sea area 15:00

GWEC: International wind market round up - How will global markets be affected by the economic climate? 16:00

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# EWEC photos from Monday



## QUOTES OF THE DAY



"This is a critical time for the world and for everyone who is committed to wind energy. We are making great progress...And this is only the beginning; the potential is huge...Europe can count on wind power."

**Roland Sundén,**  
Conference Chair and CEO, LM Glasfiberr



"Just like the rest of the world, Europe is faced with new challenges from climate change."

**Marcin Korolec,**  
Secretary of State, Ministry of Economy, Poland



"Fossil fuels are simply running out...The financial crisis did not remove the threat of climate change... Wind energy has definitely become a driving force for our economies...I'm convinced Europe is able to change this [financial crisis] into a huge chance for everybody."

**Mechtild Rothe,**  
Vice President, European Parliament



"This [financial] crisis should not stop us from investing in the future. We have to invest now...This recession could be an opportunity...Wind energy is a vital part of our portfolio."

**Nobuo Tanaka,**  
Executive Director, International Energy Agency



"The French [wind] market today is one of the most dynamic in Europe...Wind energy is seen very positively by a large majority of the public."

**Jean-Louis Bal,**  
Director of Renewable Energies, ADEME



"With wind power we are looking at the future."

**Chantal Jouanno,**  
President of the French Agency for Environment



"France is very lucky and is well-equipped in wind resources...Our country is one of the countries that is best placed to have an effective wind farm capacity."

**Andre Antolini,**  
President, French Renewable Energy Association



"We need to take strong action now. Everyone knows that climate change is a global issue...Wind energy can make a significant contribution...Wind energy's becoming mainstream and will be even more so in the years to come."

**Andris Piebalgs,**  
European Energy Commissioner



"The wind power industry has experienced remarkable growth in the past several years...The future of the wind industry sits on a very firm foundation... Wind energy is not a luxury but a necessity...We need certainty in uncertain times and that is what wind power delivers."

**Arthouros Zervas,**  
President, EWEA

## DID YOU KNOW?

Weibull has nothing to do with an energy drink. The Weibull distribution is a probability density function, which has the ability to encompass various functions, such as the Rayleigh function or the exponential function. At a given site, if you sort wind speed frequencies – measured under a specific procedure – by strength, you will end up with a probability density function, which you can approximate with a two-parameter Weibull distribution. The method has the advantage of describing the probability density function with only two parameters, which makes it easier to extrapolate at different heights, locations, and even over time. /nf

The wind through children's eyes:  
Stoyan Manchev,  
age 8, Bulgaria



## A look at our host country - France

Focus on France:  
25,000 MW by 2020

In 2008, France installed 950 MW of new wind power capacity which marked a significant expansion in wind energy for

the country. Looking ahead now, let's have a closer look at France's objectives for the next decade.

- France has an objective of 25,000 MW of wind energy capacity installed by 2020.
- 6,000 MW out of the 25,000 would be offshore.
- It represents approximately 8,000 wind turbines – including the 2,000 already installed.
- In 2020, wind energy will produce up to 10% of the electricity consumption in France, equal to approximately 55 million MWh.
- If we broaden the scope, France's objective is to reach 23% renewable energy by 2020. /iv



EWEC 2009 Chair Roland Sundén and the recently-unveiled counter that shows benefits European wind power created since the beginning of the conference.

# Wind energy gives Europe a competitive advantage, says EU Energy Commissioner

“Wind energy can replace a large proportion of the polluting and finite fuels we currently rely on,” explained Andris Piebalgs, EU Energy Commissioner, at the opening session of the European Wind Energy Conference and Exhibition (EWEC) organised by the European Wind Energy Association (EWEA) Monday. “It makes good sense to invest in indigenous sources of power which hedge against unpredictable fossil fuel prices and in which Europe has a real competitive advantage”.

According to the European Commission, 3.5% of the world's proven coal reserves are in the EU. We sit on less than 2% of the world's gas; less than 2% of its uranium and we have under 1% of the world's oil. “The fight over the world's rapidly depleting fuel resources is already intensifying,” emphasised Arthouros Zervos, EWEA's President, at the session. “It will only become more brutal with time and Europe will lose the battle. European companies have two thirds of the €35 billion global market for wind power technology. Wind energy is Europe's contribution to peace,

progress and prosperity and we should urgently develop, promote and export it to the best of our ability.”

Wind energy's contribution to prosperity is analysed in detail in a new EWEA report launched today, which Zervos presented to delegates. ‘The Economics of Wind Energy’ provides a detailed insight into wind energy economics and compares the costs of wind to those of other power-generating technologies.

Zervos also announced that EWEA has increased its 2020 target for installed wind energy capacity in the EU from 180 GW to 230 GW, including 40 GW offshore. He explained that “the agreement on the EU Renewable Energy Directive in December 2008 and its mandatory 2020 renewables targets for the Member States have increased our optimism for the sector's outlook. We have therefore increased our targets. However, these targets will only be met if all the Member States implement the directive swiftly and effectively.”

Previously, EWEA's target was set at 180 GW of installed capacity in the EU by 2020, including

35 GW offshore. The new 230 GW target would produce approximately 600 TWh per year in the EU by 2020, power equivalent to the needs of 135 million average EU households (60% of EU households) and meeting between 14 and 18% of EU electricity demand (depending on total demand in 2020).

Mechtild Rothe, Vice President of the European Parliament said that wind energy can make a real difference to employment and economies. “Wind energy is an excellent example of how to intelligently invest in a future-orientated sustainable economy getting thousands of people into jobs,” she said. “Especially in these times of uncertainty it is very important that the European wind energy industry has created more than 60,000 new jobs over the past five years. These are not mere statistics - this is the competitive strength of Europe! Wind energy has definitely become a driving force of our economies. We have learned from the current crisis that we should not wait until the problems are there before we act - we need to invest in wind energy now.”

Nobuo Tanaka, Executive Director, International Energy Agency (IEA), focused on the environmental benefits of wind energy in his presentation, saying that it “has an important role to play in climate change mitigation” but to tap into wind's full potential “we need effective national policies and a strong international framework. We need to reinforce, expand and link up our transmission networks. We must also increase research and development efforts in wind energy technology.” Tanaka went on to stress the importance of focusing economic recovery plans on green investments for a short-



► European Energy Commissioner Andris Piebalgs speaking Monday at the opening session of EWEC 2009 in Marseille.

term stimulus and long-term benefits.

Roland Sundén, CEO of LM Glasfiber and Chair of EWEC 2009 said today that “in 2008, more wind was installed in the EU than any other power generating technology. The track record of wind is the most visible proof that it creates great value. And as the financial and economic crises deepen, this becomes especially relevant, and that relevance creates a historic window of opportunity for everybody who is committed to combating climate change, to supporting technological leadership and to creating new competitive exports and jobs.”

André Antolini, President of the French Renewable Energy Association (SER) cited France as a specific example of the difference

wind can make to the economy. He said that “in France there are now over 130 companies that produce components for - or offer services to - the wind energy sector. Wind energy helps industry and the economy.” Marcin Korolec, Secretary of State for the Ministry of the Economy in Poland, agreed. “The development of wind energy stimulates the whole economy, particularly at times of crisis”, he said.

Jean-Louis Bal, Renewable Energy Director at ADEME, reinforced the important effects meeting the 2020 targets will have on Europe's future, saying that “the 20-20-20 by 2020 objectives represent an important investment, but also an investment whose medium and long term benefits are far higher than the costs.”

To give a visual display of the benefits of wind energy Roland Sundén switched on a ‘wind energy counter’, which will run until the close of EWEC. The counter will show how much electricity wind has provided in Europe, how many investments have been made and jobs created in the sector, and the number of turbines built during the four days.

EWEC is taking place in Marseille and will run until Thursday 19 March. Other sessions will cover political, grid, technical and scientific issues related to wind energy. Broadcast-standard videos highlighting the main activities at EWEC will be made available on [www.thenewsmarket.com](http://www.thenewsmarket.com) as from Tuesday, 17 March.

For more information on EWEC, see [www.ewec2009.info](http://www.ewec2009.info).



► Mechtild Rothe, European Parliament Vice President, and other delegates at EWEC discuss wind power developments.

## Increased wind power capacity can help fight global warming

The continued success of wind power is providing needed hope for a world grappling with a global financial crisis, an insecure supply of energy and environmental ravages associated with climate change, the co-winner of the 2007 Nobel Peace Prize told

delegates at Monday's EWEC meeting in Marseille.

Dr. Rajendra Pachauri, chair of the Intergovernmental Panel on Climate Change (IPCC), said that the financial crisis represents an opportunity for people to ensure politicians authorising

bail-out packages also allocate enough money to help society shift from polluting fossil fuels to renewable energies.

In a video link from New Delhi, Dr. Pachauri said he estimates that hastily-assembled bail-out packages now total \$2.7

trillion globally, yet a few years ago governments were reluctant to do much, if anything, about climate change mitigation.

Dr. Pachauri told speakers at the Global Leaders' Vision session that humankind's continued dependence on fossil fuels is creating a major burden through environmental degradation.

“We need to bring about a major energy shift in the future,” he said, adding that politicians, wind power executives and scientists have to do a better job of communicating the potential hazards of runaway global warming. “This is not going to be easy; let's remember there are vested interests.”

Saying oil barrels represent dwindling hope for the future, he added that “wind power should clearly be seen as the barrel of hope.”

Dr. Pachauri also said that greenhouse gas emissions have to peak globally by 2015 if society is to limit temperature increases to under 2 degrees Celsius in the future, a figure that many scientists say most humans will be able to adapt to.

Responding to Dr. Pachauri,

Vestas CEO Ditlev Engel said it is crucially important that everyone understand the potentially destructive ramifications of unchecked global warming.

“I think one of the problems is that CO<sub>2</sub> is something that people have great difficulty relating to,” Engel said.

David Jones, CEO of Allianz Specialised Investments, added that the IPCC's fourth assessment report, which concluded that carbon emissions from human activity are largely responsible for climate change, cries out for urgent action.

The good news, he said, is that there seems to be an emerging consensus that climate change has to be halted. The bad news, he added, is the financial crisis is diverting attention from global warming.

Marc Vergnet, President of Vergnet, said that scientists and engineers have to develop smarter, more friendly technologies, especially for the cash-strapped emerging world that is also demanding increased amounts of electricity.

Estanislao Rey-Baltur, Deputy CEO of Iberdrola Renovables,

said the current financial crisis cannot become an obstacle to government policies that protect the environment.

“Wind power should clearly be seen as the barrel of hope.”  
Dr. Rajendra Pachauri

“Investors need to know that,” he said.

Christian Kjaer, CEO of the European Wind Energy Association, said society needs to focus on wind power and other technologies that can reduce emissions before 2015.

“We need to put much more emphasis on mature renewable technologies that can deliver in that short term”, Kjaer concluded. /cr



► In a video link from New Delhi, Dr. Rajendra Pachauri, IPCC chair, tells speakers at Monday's Global Leaders' Vision session in Marseille that wind power can help in the fight against global warming.



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# Wind now leads EU power sector



EWEA has released its most recent statistics for the European wind energy market in 2008.

More wind power was installed in the EU than any other electricity generating technology. 36% of all new electricity generating capacity built in the European Union last year was wind energy, exceeding all other technologies including gas, coal and nuclear power. A total of 23,851 MW of new power capacity was constructed in the EU last year. Out of this, 8,484 MW (36%) was wind power; 6,932 MW (29%) gas; 4,200 MW (18%) PV; 2,495 MW (10%) oil; 762 (3%) MW coal; 473 (2%) MW hydro and 60 MW (0.3%) nuclear power capacity. For the first time, wind energy is the leading technology in Europe and the renewable share of new power installations was 57% in 2008. A total of 64,935 MW of installed wind energy capacity was operating in the EU by end 2008, 15% higher than in 2007.

For more information, please visit our website [www.ewea.org](http://www.ewea.org)

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- **European Offshore Wind Energy Conference and Exhibition 2009** in Stockholm, Sweden, 14-16 September 2009. Call for abstracts open until 31 March 2009. [www.Offshorewind2009.info](http://www.Offshorewind2009.info)
- **European Wind Energy Conference and Exhibition 2010** in Warsaw, Poland, 20-23 April 2010. [www.ewec2010.info](http://www.ewec2010.info)

For membership, publications or event enquiries, please contact Christi Newman at [cn@ewea.org](mailto:cn@ewea.org) or +32 2.400.1056.

To receive regular updates about EWEA's activities, register at [www.ewea.org](http://www.ewea.org)



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