

CONSULATE GENERAL OF DENMARK, CHICAGO

DAEWOO SHIPBUILDING AND MARINE ENGINEERING TO BUILD A WIND TURBINE TOWER AND BLADE MANUFACTURING FACILITY IN NOVA SCOTIA, CANADA



South Korean company Daewoo Shipbuilding and Marine Engineering (DSME) has signed a joint venture with the province of Nova Scotia to build a wind turbine tower and blade manufacturing facility.

DSME will contribute \$20.4 million to the joint venture and hold 51% of its shares, while Nova Scotia will invest \$19.6 million and hold 49% of the shares. Through its Industrial Expansion Fund, the province is also providing start-up financing for the new venture, including a \$30 million loan for new equipment, a loan of up to \$6 million for working capital, and a \$4 million forgivable loan to acquire land and buildings. The government of Canada says it will also invest \$10 million in the plant. The investment, through the Atlantic Canada Opportunities Agency, will be a \$5 million repayable loan and a \$5 million contribution for adjacent land improvements.

Darrell Dexter, Nova Scotia Premier, says: "Today is an exciting day, because this partnership will help create the secure jobs our economy needs, employing up to 500 Nova Scotians within three years".

Nam Sang-Tae, president and CEO of DSME, says: "This agreement is expected to support DSME's strategy of diversification into

the wind-energy sector and expansion into the North American market [...] We hope this announcement becomes the first milestone to establish a renewable energy cluster in Nova Scotia."

Mike Magnus, CEO, of wind power developer Shear Wind says "Shear Wind's future wind-project plans could keep this plant busy for years to come; the combination of our turbine tower requirement and DSME's production capacity truly leads to a made in Nova Scotia solution."

DSME has signed a memorandum of understanding with Nova Scotia Power for the companies to collaborate on developments that help meet renewable generation goals in Nova Scotia, focusing on-shore and offshore wind and tidal energy. Nova Scotia Power is a subsidiary of diversified energy and services company Emera. Nova Scotia Power provides more than 95 per cent of the generation, transmission and distribution of electrical power to 486,000 customers in the province.

DSME is one of the world's largest shipbuilders. In 2009, DSME acquired American wind turbine manufacturer DeWind and announced plans to build a production plant in North America.

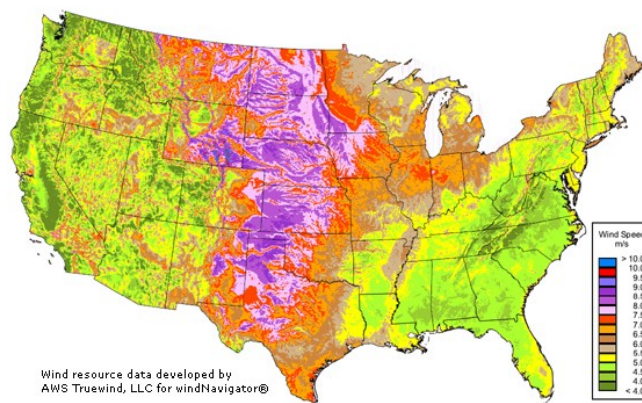
Read more on [RECHARGE](#)

The US Department of Energy Releases New Estimates of Nation's Wind Energy Potential

The US Department of Energy (DOE) has released new estimates of the U.S. potential for wind-generated electricity, tripling previous estimates of the size of the nation's wind resources. The study, carried out by the National Renewable Energy Laboratory (NREL) and AWS Truewind, finds that the contiguous 48 states have the potential to generate up to 37 million GW hours annually. By contrast, total U.S. electricity generation from all sources was roughly 4 million GW hours in 2009. The estimates show the total energy yield that could be generated using current wind turbine technology on the nation's windy lands.

Along with the state-by-state estimates of wind energy potential, NREL and AWS Truewind have developed wind resource maps for the United States and for the contiguous 48 states that show the predicted average wind speeds at an 80-meter height. The wind resource maps and estimates provide local, state, and national policymakers with new accurate information about the nature of the wind resource in their areas and across the nation, helping them to make informed decisions about wind energy in their communities. It can also be a good guide for Danish companies that want a quick overview over the windiest parts of the US and where wind-farms are likely to be installed in the future.

The new estimates reflects the many advances in wind turbine technology that have occurred since DOE's last national wind resource assessments in 1993. Previous wind resource maps showed the predicted average wind speeds at a height of 50 meters, which was the height of most wind turbine towers at the time. The new maps show predicted average wind speeds at an 80-meter height, which is closer to the average height of today's wind



turbines. Because wind speed generally increases with height, turbines built on taller towers can capture more energy and generate more electricity. The new estimates also incorporate updated capacity factors, reflecting improvements in wind turbine design and performance.

The above map shows the predicted mean annual wind speeds at 80-m height. Areas with annual average wind speeds around 6.5 m/s and greater at 80-m height are generally considered to have suitable wind resource for wind development.

At DOE's [Office of Energy Efficiency & Renewable Energy](#) homepage, the above map is presented and it is possible to zoom in on any particular state and hence get a closer look into each states wind energy potential.

Webinar: "Job Impacts of a National Renewable Electricity Standard"

The Consulate General of Denmark, Chicago, attended AWEAs Webinar "Job Impacts of a National Renewable Electricity Standard" on February 11th 2010. The webinar presented the findings of "Job Impacts of a National Renewable Electricity Standard", a study commissioned by RES (Renewable Electricity Standard) Alliance for Jobs and conducted by Navigant Consulting. Some main conclusions from the study are:

- A 25 % national Renewable Electricity Standard (RES) by 2025 would support 274,000 jobs across the entire US in a number of renewable energy sectors
- The wind industry alone would see an additional 116,000 jobs
- The national RES would lead to job growth in all states but especially in those that currently does not have a state-level RES

The study is not limited to wind energy but incorporates renewable energy sectors such as Biomass-power, Hydropower, Waste-to-energy and Solar power as well. Throughout the presentation it was emphasized that individual companies and persons should do what they can to get their own congressmen to vote for a national RES because it will create jobs and boost the renewable energy industry.

Read more about the study which was the underlying base for the webcast and download it on [RES Alliance for Jobs](#)

USA Today has also published an article about the study. The article states the importance of a national RES instead of only state-level RES: "...state standards are often unenforceable and lack the punch of a national standard that would more forcefully drive use of renewables. That would entice companies to put manufacturing and operations in the U.S. as opposed to other countries". Read the article on [USA Today](#)

Democrats seek to halt stimulus to clean energy projects that use foreign manufacturers

A group of four Democratic senators have called for the government to halt a federal stimulus program aimed at building wind farms and other clean-energy projects, arguing that too much of the money spent has gone to create jobs overseas instead of in the US.

The Obama administration and wind-energy advocates, such as American Wind Energy Association strongly dispute the criticism by Sen. Charles E. Schumer and the three other Democrats opposing the stimulus program for clean energy, saying that most of the jobs under the Energy Department program have been created in the United States, despite the dominance of foreign manufacturers in the green-technology sector. Schumer said at a news conference that the Obama administration has ignored concerns about foreign involvement in the clean-energy program and should halt funding until Congress can pass legislation to deal with the problem. This dispute marks a rare public split among Democrats over the \$862 billion Recovery and Reinvestment Act, which the Obama administration and party leaders have defended as crucial to saving jobs and easing the recession's impact.

The senators have specifically been critical towards Cielo Wind Power of Austin, which has said it may apply for up to \$450 million in stimulus funding for a massive wind farm that would be powered by turbines built in China.

Senator Schumer says: "It is a no-brainer that stimulus funds should only go to projects that create jobs in the United States rather than overseas [...] These wind projects have a lot of merit, but the manufacturing should be happening here, not in China." Read more about the senators remarks on [The Washington Post](#)

Following the senators remarks, Denise Bode, CEO for AWEA, has made a public statement about the benefits of the Recovery Act:

"At a time when the construction unemployment rate is nearly 25% and the manufacturing unemployment rate is 13%, this proposal would cost 50,000 American workers their jobs.

The truth is, by law, Recovery Act grants can only be used to finance projects that are being built in the United States.

This proposal would torpedo one of the most successful job creation efforts of the Recovery Act, which has already preserved half of the 85,000 American jobs in the U.S. wind industry.

Rather than adopt policies that will kill American jobs, Congress should enact policies that will create jobs by encouraging manufacturers to invest in U.S. plants. That means passing a Renewable Electricity Standard now.

The Recovery Act has been creating jobs by helping finance new American wind energy projects that have broken ground or been completed since the Act was passed. The proposed moratorium and legislation would kill this effort and destroy the momentum for one of the few industries that has been creating jobs and economic growth.

It is unfortunate that the proponents of this moratorium and legislation are using a deeply flawed study as the basis for a policy that would destroy tens of thousands of American jobs.

We support the goal of continuing the rapid expansion of U.S. wind manufacturing. More than half of the value of wind turbines used in U.S. wind projects is domestically produced, and that percentage is increasing every year as more turbine makers build U.S. manufacturing capability. We do not have the capability today to produce 100% of wind turbine components in the U.S., but we can grow our manufacturing base and add 274,000 American jobs if Congress passes a strong Renewable Electricity Standard."

Read the rest of the statement on [AWEA](#)

US Wind Industry News

February 22nd — Canadian clean energy developer SouthPoint Wind plans Great Lakes offshore wind complex: Clean energy developer SouthPoint Wind has submitted a proposal to build a complex of offshore wind farms on North America's Great Lakes to cash-in on Canadian feed-in tariffs and generate 1.4GW of electricity. Read more on [NewNet](#)

February 19th — Ingeteam To Construct Renewable Energy Equipment Manufacturing Facility in US: Ingeteam, a Spanish company that specializes in highly-engineered electrical and electronic equipment and services, will construct a \$15 million facility in Milwaukee to manufacture equipment for renewable energy projects. Ingeteam, Inc. will primarily produce wind power generators and converters, as well as solar photovoltaic converters (inverters) for the North American market. Read more on [Ingeteam](#)

February 18th — GE To Supply Technology to Boost the Output of NextEra Energy Resources' U.S. Fleet of Wind Turbines: NextEra Energy Resources, the nation's leader in wind energy generation, has selected GE's WindBOOST technology to enhance the output from its fleet of approximately 800 GE 1.5sle wind turbines. Read press release on [GE Energy](#)

February 15th — Renewable sector set for strong period of growth, according to new report from GBI Research: The proposed introduction of a federal renewable portfolio standard (RPS) combined with the extension of production tax credits up to 2012 in the US, is expected to boost the market for renewable energy in North America, according to a new report from GBI Research. Read more on [NewNet](#)

February 12th — REpower constructs first turnkey wind farm in Canada: REpower Systems AG and Renewable Energy Systems Canada Inc. have successfully completed the construction of a test wind farm in the Gaspé region. The joint pilot project consists of two REpower MM92 turbines, each with 2.05 MW nominal power. The Wind Energy TechnoCentre is the developer and owner of the project. Read more on [REpower](#)

February 12th — General Electric Files Patent Infringement Complaint Against Mitsubishi Heavy Industries: General Electric confirmed that it has filed a patent infringement complaint against Mitsubishi Heavy Industries Ltd. (MHI), in U.S. District Court, Northern District of Texas, Dallas Division. In the complaint GE alleges that MHI infringes on two additional patents. This announcement follows Mitsubishi's decision to make a push into the U.S. wind market. GE said that it believes that there are multiple areas where MHI's 2.4 MW wind turbines infringe on GE's 148 existing patents. Read more on [Renewable Energy World](#)

February 10th — Vestas receives 99 MW order for the US: Vestas will supply 33 V90-3.0 MW wind turbines to New Hampshire, USA, after receiving an order from Granite Reliable Power Windpark. The 99-MW project is majority-owned by Noble Environmental Power. The turbines will be delivered in the first half of 2011, with project commissioning expected in the second half of 2011. Read press release on [Vestas](#)

February 9th — 2010 Outlook for renewable energy: Industry leaders call for immediate passage of key policies to create jobs and maintain American competitiveness: Top executives in the renewable energy sector gathered to applaud 2009's strong renewable energy development but emphasized the need for Congress to swiftly enact key policies to continue accelerated growth across the entire sector in order to add jobs and boost economic growth in 2010. The statement is available at [AWEA](#)

February 8th — LM Glasfiber joins Global Wind Alliance: LM Glasfiber announced that its international service unit has joined the Global Wind Alliance. The Global Wind Alliance currently brings together 14 key players within maintenance, repair and overhaul of wind turbines thereby offering one point of contact for wind farm owners across the globe. Read more on [LM Glasfiber](#)

February 4th — Global Wind Power Boom Continues Despite Economic Woes – Canada's installed wind capacity increased by 40% in 2009: The Global Wind Energy Council (GWEC) has announced that the world's wind power capacity grew by 31% in 2009, adding 37,500 Megawatts (MW) to bring total installations up to 157,900MW. A third of these additions were made in China, which experienced yet another year with over 100% growth. Meanwhile, Canada's wind energy industry enjoyed a record year with 950 MW of new wind energy capacity installed in eight provinces – placing Canada 9th globally in terms of new installed capacity for the year. Read more on [CanWEA](#)

February 1st — The President's 2011 fiscal year Energy Budget Invests in Innovation, Clean Energy, and National Security Priorities: U.S. Energy Secretary Steven Chu detailed President Barack Obama's \$28.4 billion Fiscal Year 2011 budget request for the Department of Energy, highlighting the Administration's commitment to create jobs with the development of a clean energy economy, invest in advanced science, research and innovation, maintain a strong nuclear deterrent and secure nuclear materials both at home and abroad, and improve energy efficiency to help curb greenhouse gas emissions that contribute to climate change. Read more on [The Department of Energy](#)

For more news on the Wind Industry and for information on The Consulate General of Denmark, Chicago, visit our website: [Consulate General of Denmark, Chicago](#)

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