

Repowering Indiana Weekly - 2/9/07

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Other Links and Reports

LOCAL

Indiana House panel hears testimony on renewable energy bill

2/8/2007

Supporters of a bill that would require Indiana's electric utilities to draw at least 8 percent of their power from renewable sources such as wind and the sun by late 2016 urged a House panel today to endorse that goal.

The bill's sponsor, Rep. Dale Grubb, said Indiana needs to join the 20 or so other states that have adopted similar requirements aimed at harnessing renewable energy -- natural sources of power that can also help reduce pollution.

... Jerry Polk, an attorney for the consumer watchdog group Citizens Action Coalition, criticized several elements of the bill, including one that would allow utilities to recover their costs of building power transmission lines and other infrastructure linked to the state's ethanol plants, should that burgeoning industry prove a failure.

<http://www.southbendtribune.com/apps/pbcs.dll/article?AID=/20070208/News01/70208038>

Sierra Club Joins Lawsuit to Stop Proposed Power Plant

2/8/2007

Higher rates, fewer economic opportunities, and uncertain future costs are some of the things Indiana residents can look forward to if a coal-fired power plant expansion project is approved for Edwardsport, according to a petition to intervene filed today by the Sierra Club with the Indiana Utility Regulatory Commission. The group is urging the decision makers at the state agency to consider other lower-cost available alternatives to the proposed addition on the Duke and Vectren coal-fired power plant on the White River.

"Better options already exist," said Bill Hayden, Chair of the Hoosier Chapter of the Sierra Club.

"It only makes sense that we go with the most reliable, lowest cost and cleanest technologies out there, namely energy efficiency and wind power, to meet our energy needs."

... Representing 7,500 people in Indiana, the Hoosier Chapter of the Sierra Club joins the Indiana Clean Energy Coalition, made up of several groups including Citizens Action Coalition, Save the Valley, and Valley Watch, in its legal fight for cleaner energy alternatives.

<http://www.insideindianabusiness.com/newsitem.asp?ID=21775>

LaPorte County Prepares to Battle NIPSCO

2/7/2007

The LaPorte County Commission has passed a resolution laying the groundwork for an attempt to prevent the reported sale of NIPSCO's electric operations.

The Gary Post-Tribune reports that the resolution asks the Indiana Utility Regulatory Commission and the Federal Energy Regulatory Commission to conduct a complete review of any proposed sale and for state lawmakers to impose a moratorium on until a full review can be done.

<http://www.insideindianabusiness.com/newsitem.asp?ID=21757>

Opponents of Duke coal-fired expansion file brief

2/7/2007

Opponents of Duke Energy's proposal to build two coal-fired generators in Rutherford County formally urged state regulators Wednesday to reject the request, saying the plants would create too much pollution and could raise consumer rates.

Five groups filed the joint brief with the state Utilities Commission, which could decide by the end of the month whether to permit the construction of the pair of 800-megawatt plants at Duke's aging Cliffside operations.

"The company simply did not make a compelling case for spending over \$3 billion of rate payers' money on two coal plants," said Stephen Smith of the Southern Alliance of Clean Energy, one of the groups that made the filing.

<http://www.heraldsun.com/state/6-817305.cfm>

SACS wants to use geothermal system in schools

2/7/2007

Southwest Allen County Schools is attempting to save money by using water rather than gas to heat and cool its schools.

The district will petition the Indiana Department of Environmental Management on Friday to get permission to tap into Aboite Township's water, supplied by Aqua Indiana, to run its heating, ventilation and air-conditioning systems, which currently run on natural gas.

SACS spends \$1.27 per square foot in utilities for buildings that use gas. Its three schools with geothermal energy – Covington and Lafayette Meadows elementary schools and Woodside Middle School – cost the district \$0.78 per square foot.

<http://www.fortwayne.com/mld/newssentinel/news/local/16643014.htm>

Groups criticize coal plant

2/7/2007

Two groups are criticizing a bill passed by the Indiana House aimed at providing tax credits for a plant that would convert Illinois Basin coal into a natural gas substitute.

House Bill 1722 expands clean coal tax credits to include a \$1.7 billion facility proposed by Indiana Gasification LLC. The bill also "streamlines" state regulatory procedures, according to its sponsors.

But the Citizens Action Coalition and Evansville-based Valley Watch say the bill "interferes" with the Indiana Utility Regulatory Commission's oversight of the project.

"This legislation is actually preempting an ongoing IURC case," said Dave Menzer of the Citizens Action Coalition.

<http://www.courierpress.com/news/2007/feb/07/groups-criticize-coal-plant/?ebj=1/>

Duke offers customers energy-saving tips after record electricity demand

2/6/2007

Customers of Duke Energy Indiana set a new record Monday for winter electricity demand of 5,701 megawatts at 9 a.m., breaking the old record of 5,528 megawatts set on Jan.18, 2005.

Duke Energy is offering its customers the following "Top 10" tips for conserving energy and lowering their energy bills:...

http://www.wave3.com/Global/story.asp?S=6047275&nav=menu31_3

Indiana University faculty receive funding for innovative projects

2/6/2007

New explorations of Senegalese culture, Shakespeare and climate change are among the Indiana University projects that have received grants from the New Frontiers in the Arts and Humanities Program, an IU initiative funded by the Lilly Endowment Inc.

Now in its third year, the New Frontiers program is intended to support innovative projects, workshops, performances and visiting scholars and artists that expand cultural capital in the state and beyond.

<http://newsinfo.iu.edu/news/page/normal/4834.html>

IU Creates Sustainability Task Force

2/2/2007

Indiana University is announcing the formation of a task force on sustainability to develop long-term policies and practices incorporating environmental values.

The Bloomington Herald-Times reports that the task force will be co-chaired by Assistant Vice President Paul Sullivan and Geological Sciences Professor Michael Hamburger. It will also include faculty, staff and students.

The formation of the task force comes after a report issued last week by the Sustainable Endowments Institute gave the university a near failing grade for its sustainability efforts.

Faculty, staff and students also wrote a letter last October to interim Provost Michael McRobbie asking for the creation of a sustainability task force.

<http://www.insideindianabusiness.com/newsitem.asp?ID=21689>

NATION

Md. senators join opposition to proposed LNG plant

2/8/2007

Maryland's two U.S. Senators joined the governor Thursday in opposing a proposed liquefied natural gas terminal near Baltimore.

"It is a poor decision to locate an LNG facility in such a densely populated area of Baltimore City and Baltimore County," Sen. Ben Cardin said in a letter to the U.S. Army Corps of Engineers. Sen. Barbara Mikulski said she was "deeply concerned for the safety of communities surrounding the site and the potential environmental impact of the facility. Residents need more time to make sure their voice is heard before an LNG site is built in their neighborhood."

Also signing the letter were Reps. Elijah E. Cummings, C.A. Dutch Ruppersberger and John Sarbanes.

http://www.examiner.com/a-554547-Md_senators_join_opposition_to_proposed_LNG_plant.html

Constellation NewEnergy Signs Renewable Energy Agreement with the City of Evanston, Illinois

2/8/2007

Constellation Energy (NYSE: CEG - News) today announced that its subsidiary, Constellation NewEnergy, has entered into a green electricity purchase agreement with the city of Evanston, Ill. As part of the agreement, Constellation NewEnergy will secure approximately 5.5 million kilowatt-hours of Renewable Energy Credits (RECs) to offset 20 percent of the city's electricity usage. The secured RECs will help the city of Evanston replace the carbon emissions produced during the combustion of fossil fuels with clean, renewable wind generation. For example, one certified REC has the environmental impact of eliminating the emissions associated with one megawatt-hour of electricity produced by a fossil fuel generator.

<http://biz.yahoo.com/prnews/070208/phth003a.html?.v=4>

Current U.S. renewable energy goal too low, says head of national lab

2/8/2007

The head of the U.S. government's renewable energy lab said Monday (Feb. 5) that the federal government is doing "embarrassingly few things" to foster renewable energy, leaving leadership to the states at a time of opportunity to change the nation's energy future.

Dan Arvizu, director of the U.S. Department of Energy's Colorado-based National Renewable Energy Laboratory, said a brief opening exists to dramatically increase the energy generated from renewable sources in the coming decades, but said more resources and a national policy promoting renewable energy will be needed to make it come true.

"A few things are happening, but at the federal level, embarrassingly few things," Arvizu said in response to a question about government purchasing to stimulate the renewable market. "I see little happening at the federal level. Much more needs to happen."

<http://www.news.harvard.edu/gazette/2007/02.08/09-energy.html>

PVOne to develop largest PV array in Florida

2/8/2007

PVOne LLC will develop 'brownfields to brightfields' solar energy project poised to be the largest photovoltaic array in Florida and among the largest in the Southeast United States. The project should be operational in the second quarter of 2007. The 250 kilowatt photovoltaic system will be located at Rothenbach Park in Sarasota County, on the site of the former Bee Ridge Landfill.

<http://home.nestor.minsk.by/build/news/2007/02/0809.html>

Rocklin Police Department Unveils 143kW Carport Solar System

2/8/2007

The Rocklin Police Department in conjunction with the City of Rocklin announced the commissioning of its new 143kW AC dual solar energy system and carport structure for its state-of-the-art facility. The system gained international attention after a visit from the Magistrate of

Tainan County, Taiwan, Su Huan-Chih, who was accompanied by a delegation of Tainan government officials, investors, and members of the Taiwan press. The Rocklin Police Department hosted a tour for the delegation on Monday that showcased its municipal application of renewable energy through its solar carport.

<http://www.renewableenergyaccess.com/rea/partner/story?id=47385>

FPL Energy Ready To Build Oliver II Wind Farm

2/7/2007

FPL Energy, a renewable energy project developer based in Juno Beach, Fla., has finalized plans to build a 48 MW Oliver II Wind Energy Center in North Dakota.

According to the company, the Oliver II wind farm will be located adjacent to the 50.6 MW Oliver Wind I Energy Center, which was commissioned in December of 2006. Once complete, the combined wind farms will have a capacity of nearly 100 MW of energy, which will generate enough electricity to power 30,000 homes per year.

http://www.nawindpower.com/naw/e107_plugins/content/content_lt.php?content.446

Wind Energy Continues to Gain in Popularity Among NYSEG and RG&E Customers

2/7/2007

More and more NYSEG and RG&E customers are finding that the source of electricity they prefer is blowin' in the wind.

As of the end of 2006, 9,300 NYSEG customers have signed up to purchase wind-generated electricity through a program the company began offering in August 2002 in partnership with Community Energy Inc., a leading marketer of wind energy. The number of customers participating in the NYSEG program increased more than 200% from 2005 to 2006. These NYSEG customers are expected to use 33.3 million kilowatt-hours (kwh) of wind energy in 2007. At RG&E nearly 3,000 customers have enrolled in the wind energy program the company began offering in April 2004. The number of customers participating in the RG&E program is also up significantly over 2005. These RG&E customers are expected to use 19.5 million kwh of wind energy in 2007.

<http://biz.yahoo.com/prnews/070207/nyw152.html?.v=77>

O.A.R. Launces Green Music Tour With Clif Bar

2/6/2007

I thought I'd never heard of O.A.R before (which stands for "...of a revolution") until I hit their website and picked up on the radio hit "Love and Memories". They've got a really cool sound that's mixed rock/acoustic/instrumental. I dig it.

Anyways, adding more appeal to this group is that fact that their winter tour has gone green. O.A.R. signed up with the Clif Bar GreenNotes program, which "provides resources for bands who want to create positive environmental change and encourage their fans to follow suit."

<http://www.ecorazzi.com/?p=1433>

Appalachian provides wind energy solutions

2/6/2007

In an era with environmental consciousness on the rise, Appalachian State University offers the region several ways to participate in the movement.

Energy sources and their improvements have been one main environmental focus for students and faculty over recent years.

One of the largest and progressive initiatives, wind power, has already begun to be utilized within the community.

The North Carolina Small Wind Initiative (NCSWI) is responsible for the presence of wind power in the Appalachian region.

"We are here to guide folks who become interested in solar, wind, micro-hydro and energy efficiency from [their] awareness all the way to [their] adoption of it," Brent J. Summerville, project manager for NCSWI, said.

<http://theapp.appstate.edu/content/view/1963/43/>

LADWP Calls for Proposals to Build \$176 Million in Green Power

2/6/2007

The Los Angeles Department of Water and Power (LADWP) is seeking proposals for 2,200 gigawatt-hours (GWh) of energy per year—worth approximately \$176 million annually—from “green power” resources such as solar, wind, and geothermal power. A pre-proposal conference for prospective bidders is scheduled for Tuesday, Feb. 13 at 9 a.m. at LADWP’s John Ferraro Building headquarters, A-Level Auditorium, 111 N. Hope St., Los Angeles.

“This is an incredible opportunity for the renewable energy industry to present strong, viable proposals that will foster the development of clean, sustainable energy for the City of Los Angeles for many generations to come,” Mayor Antonio Villaraigosa said.

Proposals are due April 10 at 2 p.m. The Request for Proposals (RFP) can be downloaded from the LADWP website at www.ladwp.com/purchasing and has been sent directly to more than 300 vendors nationwide.

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20070206006275&newsLang=en

Low Income Homeowners Go Solar in the Pioneer Valley

2/6/2007

Kosmo Solar installed several solar energy systems for low income residents of the Pioneer Valley in 2006. These homeowners will enjoy benefits through these systems including stabilization of electric rates for the next 30 years, the positive feeling associated with making a beneficial impact for the environment, and avoidance of greenhouse gas production associated with global warming. The combined energy output for these systems will be 382MWhrs (megawatt-hrs) over the lifespan of the equipment and save the rate payers over \$159,000 all while avoiding 170 tons of carbon dioxide, 1033 lbs of sulfur dioxide, and 629 lbs of nitrous oxides.

<http://www.socialfunds.com/news/release.cgi/7449.html>

ACEEE Studies Florida's Potential For Energy Efficiency

2/6/2007

Researchers at the American Council for an Energy-Efficient Economy (ACEEE), Washington, D.C., recently released a study that reveals a combination of energy efficiency and renewable energy can reduce Florida's electricity needs by almost half (45%) over the next 15 years. The study, titled "Potential for Energy Efficiency and Renewable Energy to Meet Florida's Growing Energy Demands," outlines policies to reduce electricity demand and to develop renewable energy resources, such as wind and solar. The efficiency policies would moderate 2023 electricity demand by 19%, while the renewable policies would reduce electricity by an additional 26% - for a total reduction of 45%.

http://www.nawindpower.com/naw/e107_plugins/content/content.php?content.441

HIGH SCHOOL TO 'FLICK SWITCH' ON SOLAR POWER

2/5/2007

Students will “flick the switch” Tuesday to start the flow of sun-produced energy at Conley-Caraballo High School in Hayward, which is part of the New Haven Unified School District. Pacific Gas and Electric Company reports it will be the first primarily solar-powered school in Alameda County.

According to PG&E, the school district has installed 600 solar panels on the roofs of Conley-Caraballo and they'll be part of a system that will generate about 80 percent of the school's energy needs.

Although other Alameda County schools have installed solar elements, PG&E says Conley-Caraballo is the first where a solar system is meeting such a high percentage of the energy needs.

http://cbs5.com/localwire/localnews/bcn/2007/02/05/n/HeadlineNews/SOLAR-POWER/resources_bcn.html

Costco Wholesale Installs Solar-Power Energy System on Roof of Lake Elsinore Warehouse Store

2/5/2007

Costco Wholesale Corp., the leader in high volume, high quality products, has announced the installation of its second solar-powered energy system at its Lake Elsinore, California warehouse (29315 Central Ave., Lake Elsinore, CA). SunEdison, North America's largest solar services provider, simplified the implementation by delivering the turnkey solar system, which will produce 595 kW (DC) 496kW (AC) through the 45,000 square foot system.

As part of Costco's long-term commitment to energy conservation and reduction of energy costs, the new system is expected to supply in excess of 725,000 kWh (AC) annually over an expected lifespan of 25 years. The solar system is expected to save more than \$3.8 million in energy expenditures over the 25-year period. The clean energy produced by the solar system will eliminate an estimated 1,009,611 pounds of CO2 annually, which is the equivalent of planting 2,800 acres of trees over the 25 year life of the system.

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20070205006155&newsLang=en

Focus on the States: Colorado

2/5/2007

In 1997, Colorado state legislator Mark Udall (D) introduced several bills designed to advance renewable energy, including net metering, fuel source disclosure and a "clean energy choice" pilot program -- unquestionably a modest bill when compared to much of the renewables legislation drafted today. Udall's bills were unceremoniously tossed out of committee, never reaching the full House.

Fast-forward seven years to 2004. Udall, by then a Member of the U.S. Congress, traversed Colorado with the state's House Speaker, Republican Lola Spradley, campaigning for the nation's first statewide renewable portfolio standard (RPS) ballot measure. Amendment 37, which required 10% renewable energy production for the state by 2015, passed comfortably that year. Now fast forward another couple of years. Putting renewables at the forefront of his campaign platform, Bill Ritter (D) won the election for Colorado governor last November. In his January inaugural address, renewable energy was his first policy utterance; Ritter told the audience Colorado needed to be bolder than any other state on renewables.

<http://www.renewableenergyaccess.com/rea/news/reinsider/story?id=47335>

Cities from Bellingham to Olympia Sign Agreements with Puget Sound Energy to Go Green

2/5/2007

Puget Sound Energy (PSE), which serves more than one million electric customers in Washington state today announced that the company's sales of green power are steadily increasing. Effective Jan. 1, 2007, PSE's green power electricity purchases by customers and communities increased by almost 30 percent thanks to recently signed agreements with cities and other government entities from Bellingham to Olympia.

"The city of Bellingham, city of Olympia, LOTT (Lacey, Olympia, Tumwater and Thurston County) Alliance, and Whatcom County have all signed agreements with Puget Sound Energy to purchase green power to support the development of clean, renewable energy in the Pacific Northwest," said Cal Shirley, PSE's vice president of Energy Efficiency Services. "Collectively, they will be purchasing more than 53 million kilowatt hours (kWh) of green power this year — equivalent to the electricity used by about 4,400 households."

All four government entities will qualify for the U.S. Environmental Protection Agency's Green Power Partnership Program's Leadership Club. Bellingham is the largest local government buying 100 percent green power in the United States and the first local government on the EPA's Top 10 Local Government Partners list to go 100 percent green.

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20070205006256&newsLang=en

Power grid sets winter record

2/5/2007

The operator of the power grid for the mid-Atlantic and parts of the Midwest said Monday it reached an all-time record for winter electricity use amid frigid weather on the East Coast. Valley Forge, Pa.-based PJM Interconnection, which operates the power grid in 13 states and Washington, D.C., said it set an all-time record for winter electricity use on Monday morning, with demand rising above 112,500 megawatts. The previous record for winter use, set in December 2005, was 110,414 megawatts.

The all time record for summer use on the PJM grid, 144,644 megawatts, was set during a heat wave last August.

<http://www.businessweek.com/ap/financialnews/D8N3PL900.htm>

Silicon Valley poised to become leader in alternative energy

2/4/2007

After personal computers and the Internet, Silicon Valley is now set to become the leader in alternative energy sources.

Clean technology, which is often described as the biggest opportunity of this century, helped fuel Silicon Valley's recovery last year after five years of job losses, according to the Silicon Valley Index, a major annual economic study released at a conference in San Jose on Friday.

According to the report, investments in clean technology, including solar energy and hybrid cars, in Silicon Valley jumped to \$300 million annually, recording 900 per cent increase and making the Valley the nation's prime spot for innovation in energy alternatives.

<http://www.hindu.com/thehindu/holnus/008200702041021.htm>

Turner touts solar as best alternative

2/3/2007

The first phase of the country's largest corporate solar-electric system is nearing completion here, and it's got some star power behind it.

Media mogul Ted Turner's new venture, the renewable energy company DT Solar, is behind the project. Turner visited the Hall's Warehouse Corp. facility this week to tout the 4,000 solar panels that have been installed on the roof.

When complete, the project will have 8,000 solar panels to power two refrigerated warehouses.

The company provides refrigerated and dry storage and shipping for commercial tenants.

<http://www.chron.com/disp/story.mpl/tech/news/4523462.html>

Eastern Kentucky Man Looking To Bring First Wind Energy Plant To Kentucky

2/2/2007

The coal industry has provided jobs and energy to Eastern Kentucky for decades, but an Eastern Kentucky man says he thinks he can bring a different type of renewable energy into the region. For decades, companies and individuals have used the wind as a form of energy, an environmentally friendly and renewable source of energy. Now an Eastern Kentucky man says he hopes to bring the first wind energy plant to Kentucky.

Scott Sykes is an Eastern Kentucky native and with his company Genesis Development. He's looking to wind energy as the next way to power the homes in the mountains.

<http://www.wkyt.com/wymtnews/headlines/5545801.html>

Solar Power House

2/2/2007

While most of us will be cranking up the heat if the snow falls, its more complicated from one valley man. He needs the sun to power his house.

The sun is Rockingham County Resident George Arey's best friend.

"I've always wanted to produce electricity from the sun," says Arey.

For the past few years he has with 40 solar panels on the top of his roof.

It runs everything from his lights to his water plus its good for the environment.

"Just by the instruments that I have I already have saved 5 thousand pounds of carbon dioxide from going into the air. So i can measure, at this point, the difference I've made."

<http://www.whsv.com/news/headlines/5518901.html>

SSJID plans solar power farm

2/2/2007

Expensive and unreliable PG&E power for the water treatment plant serving Manteca, Lathrop, and Tracy is prompting the South San Joaquin Irrigation District to go solar.

A seven-acre solar array farm — which will be among the largest in California — is being planned adjacent to the state-of-the-art surface water treatment plant that opened 18 months ago. It is located 15 miles northeast of Manteca on Dodds Road near the base of Woodward Reservoir.

<http://www.mantecabulletin.com/articles/2007/02/02/news/news1.txt>

LIPA/Carle Place Schools Dedicate Solar Power System

2/2/2007

The Long Island Power Authority (LIPA) and the Carle Place School District last week dedicated the first photovoltaic (PV) solar power systems to be installed by a Long Island school district under LIPA's Solar Pioneer Program.

The five PV systems installed by Johnson Controls/Rockmore Contracting total 49.54 kilowatts (kW) and will produce a total of approximately 57,500 kilowatt hours (kWh) of electricity annually, saving the Carle Place School District and its taxpayers about \$10,177 in electricity costs per year.

<http://www.antonnews.com/westburytimes/2007/02/02/news/>

Researchers Find Substantial Wind Resource Off Mid-Atlantic Coast

2/1/2007

The wind resource off the Mid-Atlantic coast could supply the energy needs of nine states from Massachusetts to North Carolina, plus the District of Columbia--with enough left over to support a 50 percent increase in future energy demand--according to a study by researchers at the University of Delaware and Stanford University.

Willet Kempton, Richard Garvine and Amardeep Dhanju at the University of Delaware and Mark Jacobson and Cristina Archer at Stanford, found that the wind over the Middle Atlantic Bight, the aquatic region from Cape Cod, Mass., to Cape Hatteras, N.C., could produce 330 gigawatts (GW) of average electrical power if thousands of wind turbines were installed off the coast.

The estimated power supply from offshore wind substantially exceeds the region's current energy use, which the scientists estimate at 185 gigawatts, from electricity, gasoline, fuel oil and natural gas sources.

<http://www.newswise.com/articles/view/527052/>

SUNY-ESF Harvests Shrub Willows for Sustainable, Green Energy

2/1/2007

The innovative project can return a former industrial waste site to productive use and help reduce dependence on foreign oil.

The SUNY College of Environmental Science and Forestry (ESF) has begun harvesting shrub willows from land that was once considered an industrial waste site, and within a few days, the wood will be transported to an upstate New York biomass plant for use in its electric power facility.

The harvest marks a milestone in the generation of a new source of sustainable energy.

<http://www.esf.edu/newspubs/news/2007/02.01.shrubs.htm>

California, Illinois schools win \$500M BP biofuels grant

2/1/2007

University of California Berkeley and the University of Illinois have landed a \$500 million research grant, sponsored by BP Plc., to fund an international biofuels research center.

The California and Illinois effort edged out MIT and Purdue University for the grant. The decision Thursday came after months of lobbying effort to attract the 10-year grant.

http://sacramento.bizjournals.com/sacramento/stories/2007/01/29/daily43.html?jst=b_In_hl

The Sun Shines on Lincoln

2/1/2007

As many students may have noticed, the University has recently installed solar panels that track the sun near Lincoln Theater. What many students may not have known is that there have already been solar panels on the roof of Lincoln Theater since May of last year. So far, these solar panels are estimated to produce about 10 percent of the buildings consumed power. In real figures, it would be between 17,000 and 18,000 kilowatt-hours of electricity a year.

<http://media.www.hartfordinformer.com/media/storage/paper146/news/2007/02/01/News/The-Sun.Shines.On.Lincoln-2691847.shtml?sourcedomain=www.hartfordinformer.com&MIHost=media.collegepublisher.com>

WORLD

World's first wind and gas offshore energy project given green light

2/8/2007

A unique dual energy scheme to be sited off the Cumbrian coast was given the go-ahead today by Energy Minister Lord Truscott.

The Ormonde project from Eclipse Energy will be sited 10KM from Walney Island near Barrow in Furness.

This innovative hybrid development has the potential to generate up to 200MW of electricity with almost half coming from the wind farm comprising up to 30 turbines. This is enough clean energy for around 70,000 homes.

When the wind isn't sufficient, power will still come via conventional gas sources pumped from two fields in nearby Morecambe Bay for which DTI approval has also been sought.

http://media.netpr.pl/notatka_72157.html

Biofuels power India's rural mobile networks

2/8/2007

Indian mobile operator Idea Cellular, Ericsson and the GSM Association's Development Fund have teamed up to develop biofuels as a source of power for wireless networks in rural India. In a pilot project in Pune, Maharashtra, the three organisations will begin using biofuels to power mobile base stations located beyond the reach of the electricity grid.

The first phase of the project, which is testing the feasibility of non-edible plant-based fuels, such as cotton and jatropha, is nearing completion. The second phase of the project will entail setting

up a supply chain using locally grown crops to produce biodiesel to power between five and 10 base stations in the Maharashtra region.

<http://www.e4engineering.com/Articles/298135/Biofuels+power+rural+mobile+networks.htm>

ECD Ovonic Plans Thin-Film Solar Module Assembly in China

2/8/2007

Energy Conversion Devices, Inc. announced that United Solar Ovonic, its wholly owned subsidiary, has entered into an agreement to form a joint venture with Tianjin Jinneng Investment Company (TJIC) to establish a 30-megawatt (MW) photovoltaic (PV) module assembly facility in Tianjin, the People's Republic of China.

<http://www.renewableenergyaccess.com/rea/news/story?id=47377>

Xantrex inverter controls solar system at legendary German sport cycling track

2/6/2007

Xantrex Technology Inc. (TSX:XTX) has supplied German energy company, EnBW Regional AG with a solar grid-tie inverter for a 481 kilowatt peak (kWp) installation at a renowned sport cycling track in Germany, recently outfitted with solar power.

Located in Im Oberen Gaeu, Germany, the RSV Oeschelbronn cycling racetrack is steeped in tradition and is currently undergoing significant renovation and modernization. The rooftop photovoltaic (PV) system, controlled by a single Xantrex GT500E commercial grid-tie solar inverter, is one of EnBW Regional AG's largest solar power systems to be connected to the grid in the state of Baden-Wuerttemberg. At 8,000 square metres, the solar array is as large as a soccer field.

<http://www.renewableenergyaccess.com/rea/partner/story?id=47353>

Renewable energy to help combat climate change

2/6/2007

Premier Alan Carpenter has today announced a major initiative in the State Government's campaign to tackle climate change.

Opening the World Renewable Energy Network 2007 International Conference in Perth today, the Premier announced the State Government would purchase 20 per cent of its electricity requirements from renewable energy sources by 2010.

Mr Carpenter also challenged the Howard Government, industry and Western Australian local governments to follow the State Government's lead in helping to reduce greenhouse gas emissions.

http://media-newswire.com/release_1042931.html

Feed Law Powers Germany to New Renewable Energy Record

2/5/2007

German farmers, homeowners and industrialists set a world record for the development of renewable energy in 2006. Using the country's pioneering electricity feed law, Germans invested more than U.S.\$10 billion in new sources of renewable energy last year, including wind turbines, solar panels and biogas power plants.

Germany's feed law permits homeowners and farmers to connect their solar power systems to the grid and pays them a fair price for their electricity. This simple system has led Germany to world leadership in wind, solar and biogas electricity generation. Germany operates more wind generation, more solar systems and more biogas plants than any other country on earth.

Renewable sources of energy installed through Germany's feed law produce about 50 terawatt-hours (TWh or billion kilowatt-hours) of electricity per year, or nearly 10% of German electricity consumption.*

<http://www.renewableenergyaccess.com/rea/news/story?id=47322&src=rss>

Welwind Energy International Announces Turbine Complete -- New Board Members

2/2/2007

Welwind Energy International Corporation (OTCBB:WWEI) (the "Company"), a pioneer in alternative energy in the Asian market, announced at a Jan. 30th press conference that the first

wind turbine produced by Guangzhou Engga Wind Energy Co. Ltd. (ENGGA) for WWEI rolled off of the production line for Phase I of the Zhanjiang wind farm project. The press conference was attended by Zhanjiang and Yangjiang government officials, WWEI management and directors and ENGGA.

The company is currently constructing the base for the turbine and will be installing the 750 KW ENGGA turbine after the Chinese spring festival next month. Windcor Power Systems, a Canadian wind developer, will oversee the installation of the first turbine.

<http://www.primenewswire.com/newsroom/news.html?d=113005>

Family installs renewable energy systems

2/2/2007

A family in Herefordshire is making efforts to improve energy efficiency in the home through the installation of a renewable energy system using solar power.

The Rees family in Ewyas has completed the installation of solar panels in their family home which will generate a significant amount of the electricity needed to power their home.

It is thought that renewable energy could provide more than 40 per cent of the UK's total energy needs by 2050 and many households are taking initial steps towards this goal.

<http://www.financenewsonline.co.uk/articles/Family-installs-renewable-energy-systems-18050202.html>

Lifesaving energy to come to Narooma

1/31/2007

THE Clean Energy for Eternity group have been busy on the Far South Coast of NSW with the launch on Saturday, January 20 of the renewable energy project for the Tathra Surf Lifesaving Club, and are now planning to spread their energy across NSW and the entire country.

Bega Valley mayor Tony Allen officially launched the project, which includes a wind turbine and solar photovoltaic cells on the roof of Tathra Surf Club. This will be followed by a solar hot water service, which will see the Surf Club running with a negligible carbon footprint.

The benefit of renewable energy for the surf club is threefold. The installation will save the surf club about \$1000 per year on electricity bills which can be better utilised on lifesaving equipment. More will be saved following the installation of solar hot water system. Increase education and awareness of global warming and climate change and demonstrate solutions by showing the community renewable energy at work.

<http://ffggippsland.blogspot.com/2007/02/lifesaving-energy-to-come-to-narooma.html>

PUBLIC POLICY

House of Representatives passes biofuels bill

2/8/2007

The U.S. House of Representatives on Thursday overwhelmingly approved legislation to promote the development of alternative biofuels and create the infrastructure to handle the supplies.

The bill, which passed in a 400-to-3 vote, requires the government to carry out research to make alternative biobased fuels, such as gasoline made of 85 percent ethanol, compatible with existing infrastructure to store and deliver the fuels to the point of final sale.

Specifically, the government would research ways to prevent or limit the damage from biofuels in corroding pipelines and storage tanks, clogging filters and producing more emissions from higher evaporation rates.

http://today.reuters.com/news/articlenews.aspx?type=politicsNews&storyID=2007-02-08T225558Z_01_N08220566_RTRUKOC_0_US-ENERGY-CONGRESS-BIOFUELS.xml&WTmodLoc=NewsHome-C3-politicsNews-3

Senate approves renewable energy standards

2/7/2007

Minnesota's plan to pump more hydrogen, solar and wind electricity through its powerlines got overwhelming backing from the state Senate, where advocates touted it as the most aggressive renewable energy standard in the country.

Most utilities would have to generate 25 percent of their power from renewable sources by 2025. The state's largest electricity provider - Xcel Energy Inc. - would be under orders to draw 30 percent from those sources by 2020.

<http://minnesota.publicradio.org/display/web/2007/02/07/energybill/>

Bush Calls For Renewable Energy, Cuts Colorado Funding

2/6/2007

Weeks after pledging major investments in renewable energy, President George W. Bush is calling for cuts at Colorado's National Renewable Energy Laboratory, drawing complaints Monday from two of the state's Democratic lawmakers.

...Bush's proposed budget would decrease funding for the Golden, Colo., lab to \$181.5 million from \$187.5 million, they said. The lab does the nation's primary research on renewable energy and energy efficiency.

<http://www.thedenverchannel.com/news/10941792/detail.html>

Bush Allocates \$1 Billion to Renewable Energy

2/6/2007

Out of the \$24.3 billion requested by President Bush for the U.S. Department of Energy (DOE) Fiscal 2008 budget, approximately \$1.2 billion will be allocated to the Office of Energy Efficiency and Renewable Energy -- up \$60 million or 5 percent from 2007.

The 2008 budget request includes \$179 million for the Biofuels Initiative (an increase of \$29 million or 19 percent from 2007), which is designed to help the U.S. reduce gasoline consumption by 20 percent in ten years and make cellulosic ethanol cost-competitive by 2012 through research and development of biomass made from switch grass, wood chips and corn stalks.

The budget also calls for expansion in key energy programs that focus on developing clean and renewable energy including vehicle efficiency technology, \$176 million; the Solar America Initiative, \$148 million; hydrogen technology, \$213 million (includes fuel cell development); and wind projects, \$40 million.

<http://www.renewableenergyaccess.com/rea/news/story?id=47337>

Industry Group Urges Congress to Reverse Administration Decision on DOE Geothermal Research

2/5/2007

A geothermal industry leader today applauded the Senate Energy Committee chairman for criticizing the administration's budget for not funding geothermal energy research. "We applaud Senator Bingaman for recognizing that the budget shortchanges the nation by failing to fund any research on geothermal energy," Geothermal Energy Association (GEA) Executive Director Karl Gawell said. "We urge other leaders in Congress to join him and reverse this ill-considered decision."

"In the past year reports released by GEA, the National Renewable Energy Laboratory (NREL), and Massachusetts Institute of Technology (MIT) have underscored the tremendous pay-off for a continued federal commitment to develop and utilize the nation's vast and largely untapped geothermal resources," Gawell said.

<http://www.prnewswire.com/cgi-bin/stories.pl?ACCT=104&STORY=/www/story/02-05-2007/0004520619&EDATE>

FY 2008 Budget Recommendations for U.S. DOE EERE Programs

2/5/2007

The Administration will be presenting its FY'08 budget recommendations for all federal programs, including the U.S. Department of Energy (DOE), today.

The following list provides a summary of the Fiscal Year 2008 (FY'08) funding levels being proposed by various sustainable energy advocacy organizations for a number of the renewable energy and energy efficiency technology programs in the DOE.

<http://www.renewableenergyaccess.com/rea/news/story?id=47326>

'Sunshine' to power rebates

2/3/2007

Pennsylvanians considering installing solar energy systems in their homes but put off by the high price could start singing "let the sun shine in" if a proposed energy initiative sees daylight.

About \$200 million of the \$850 million Energy Independence Fund proposed this week in Gov. Ed Rendell's Energy Independence Strategy is designated for a so-called Pennsylvania Sunshine program. It aims to jumpstart the state's commitment to have some 858 megawatts of electricity generated by the sun by 2021. One megawatt powers about 800 homes.

Under the governor's plan, homes and small businesses could receive rebates of up to half the cost of a solar power system, including a rebate if the solar power panels are manufactured in Pennsylvania. That could amount to savings of \$22,000.

http://www.pittsburghlive.com/x/pittsburghtrib/business/s_491593.html

Rhode Island Public Utilities Commission Selects APX Infrastructure to Manage its Renewable Energy Standard

2/1/2007

APX, Inc., a leading provider of technology, operations, and professional services for the energy industry and environmental markets, is pleased to announce today that the State of Rhode Island has selected the APX environmental market infrastructure to manage Renewable Energy Certificates (RECs) and compliance with the state's Renewable Energy Standard (RES). As of January 1, Rhode Island commenced RES operations within the New England Power Pool Generation Information System (NEPOOL GIS).

Starting in Compliance Year 2007, Rhode Island load serving entities must obtain from Eligible Renewable Energy Resources, a target percentage of at least three percent (3%) of electricity sold by an Obligated Entity at retail to Rhode Island End-use Customers. In each subsequent Compliance Year through Compliance Year 2019, the target percentage increases to a maximum of 16% in 2019.

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20070201005189&newsLang=en

Eco group, lawmakers advance 13 proposals

2/1/2007

Environment Illinois, with the backing of several area legislators, is proposing the following 13 policies and legislative initiatives to help Illinois reduce pollutants that contribution to global warming:....

http://www.suburbanchicagonews.com/newssun/news/238711,5_1_WA01_GLOBAL_S2.article

Senate Panel Passes Renewable Energy Bill

2/1/2007

Utility companies would be required to get at least 25 percent of their energy from renewable sources by 2025, under a bill approved unanimously by a Minnesota Senate committee on Thursday.

Renewable sources include windmills, solar power, plant materials and hydroelectric power. Xcel Energy, the state's largest utility, would be required to hit an even higher standard of 30 percent by 2020.

Sen. Ellen Anderson, DFL-St. Paul, the chief author of the bill, said she was amazed that every member of the energy and utilities committee supported the bill, which now goes to the full Senate for a vote.

http://wcco.com/local/local_story_032225028.html

Farmers support wind energy at Capitol

2/1/2007

As a Baca County farmer, Troy Crane said he cursed the wind. But today, while lawmakers kicked off a push for renewable energy, he praised it as the savior of rural counties. Crane spoke before the House Transportation and Energy Committee unanimously approved a bill that would provide funding to build transmission lines to deliver wind- and sun-generated electricity.

The measure (House Bill 1150) is one of a half dozen supported by Gov. Bill Ritter to jump-start rural economies and help the state meet its growing need for electricity.

The bill would create a five-member board that would provide grants and loans to build the power lines necessary to get the electricity to market. It now goes to the full House for debate.

http://www.denverpost.com/opinion/ci_5136201

Members Committed to Energy Independence Introduce Hydrogen Legislation

2/1/2007

Today, Congressmen Lee Terry (R-NE), Mike Doyle (D-PA), Zach Wamp (R-TN), and Albert Wynn (D-MD) introduced bipartisan legislation to promote the widespread adoption of hydrogen fuel cell technology.

This legislation would extend the current federal tax credit on fuel cell equipment through 2013 and provide a tax credit for hydrogen fuel consumed in energy conversion.

<http://www.swnebr.net/newspaper/cgi-bin/articles/articlearchiver.pl?159628>

BUSINESS

Search Engine Tracks International Renewable Energy Policies

2/8/2007

Financiers in Europe can now compare different government policies toward wind, biomass and small hydro project development using reegle, an online searchable database of preselected information on varying policy and legislation among European countries.

Work on reegle, which was implemented by the Renewable Energy Policy Network for the 21st Century (REN21) and the Renewable Energy and Energy Efficiency Partnership (REEEP), began a year ago, when the governments of Germany, the Netherlands and the United Kingdom needed access to quality information to increase uptake of renewables worldwide.

<http://www.renewableenergyaccess.com/rea/news/story?id=47373>

Verde Energy Launches Carbon Offset Partnership With Trees For The Future

2/7/2007

Verde Energy, an online marketplace providing commercial and residential customers with competitive bids on solar power, solar thermal, wind power and other renewable energy projects, has teamed up with Trees for the Future in an effort to offset carbon emissions through community-based reforestation and agroforestry projects.

Under Verde Energy's tree planting program, a tree is planted for every customer who visits www.verdeenergy.com and uses the service to receive free project consultation from knowledgeable Verde staff and competitive project quotes from prescreened renewable energy professionals.

<http://www.renewableenergyaccess.com/rea/partner/story?id=47359&src=rss>

Barclays to Buy 300GWh Renewable Energy Over Next 3 Years

2/6/2007

Barclays has made a renewable energy purchase that will reduce its carbon footprint by up to 125,000 tons of carbon dioxide per year - the equivalent to the emissions produced by 19,000 homes in the UK in the course of a year, the company reports.

Starting from April 2007, 50 percent of Barclays UK electricity consumption will come from renewable sources, compared to three percent previously, according to the company. Barclays

UK offices including its Canary Wharf headquarters and major UK branches will be powered solely by renewable energy. Under the terms of the contract, Barclays will buy approximately 300 GWh of renewable energy per year for the next three years from EDF Energy.

<http://www.environmentalleader.com/?p=879>

Natural gas car tops 'greenest' list

2/6/2007

A car powered by natural gas topped an annual list of "greenest" 2007 model vehicles released Tuesday, while Volkswagen's diesel version of its Touareg SUV topped the "meanest" list for least environmentally friendly vehicles.

Honda's Civic GX, a \$25,000 natural gas vehicle sold in California and New York, stood atop the "greenest" list, beating all gasoline-electric hybrids based on a "green score" derived from fuel economy as well as health and global warming impacts.

... The Toyota Prius and Honda Civic Hybrid took the second and third spots, while two newcomers, the Nissan Altima Hybrid and Toyota Yaris, took fourth and fifth. Others on the list include vehicles from Honda, Hyundai, Kia, and Toyota. Domestic automakers were shut out of the top-twelve list.

<http://www.msnbc.msn.com/id/17005861/>

Practical Instruments Targets the Rooftop With Three New Solar Installers

2/5/2007

Practical Instruments, a provider of high-performance concentrating solar panels, today announced new partnerships with three Southern California-based installers of solar power systems: Energy Options, Permacity Corporation and Advanced Solar Electric. The three represent the first wave of authorized resellers and installers for Heliotube(TM), Practical Instruments' flagship concentrating solar panel.

<http://www.prnewswire.com/cgi-bin/stories.pl?ACCT=104&STORY=/www/story/02-05-2007/0004520064&EDATE=>

Travel company sells carbon credits to reduce emissions

2/4/2007

An adventure travel company based here says its customers can now go on their vacations without contributing to global warming.

Outdoor Adventure River Specialists in January began encouraging customers who sign up for Grand Canyon raft trips, sea kayaking expeditions and other adventures to consider paying a few dollars extra to "offset" the carbon dioxide spewed during their car or airplane trip to the vacation site. OARS even offers to chip in half the cost of offsetting a customer's vacation travel emissions.

The money paid to offset the emissions will go to Native Energy, a firm that finances wind farms and other clean forms of electricity generation. That clean energy, in turn, replaces power that would have been generated in coal- or oil-fired plants, thus eliminating tons of carbon emissions that would have gone into the atmosphere.

http://www.recordnet.com/apps/pbcs.dll/article?AID=/20070204/A_BIZ/702040303/-1/A_NEWS

Frontier Natural Products Co-op Gets Green With Energy

2/2/2007

Frontier Natural Products Co-op, a leading U.S. manufacturer and marketer of natural and organic products, announced today that it has purchased enough renewable energy credits from the Bonneville Environmental Foundation (BEF) to equal 100 percent of the electrical energy used at its Iowa and Colorado facilities.

"Sustainability drives our decision-making process at Frontier. As a natural products industry leader, we are committed to a sustainable business model that includes our suppliers, our employees, and our co-operative owners," said Kathy Larson, Frontier's Vice President of Sustainability and Education. "Offsetting our environmental footprint with Green Tags for wind and solar power is a logical extension of that commitment."

<http://www.prweb.com/releases/2007/2/prweb502243.htm>

Sharp Expands Solar Module Production in Europe

2/1/2007

Sharp Corporation will double its production capacity for solar (photovoltaic) modules during the coming year at Sharp Manufacturing Company of U.K. (SUKM), its production base at Wrexham, North Wales. Capacity will be increased from the current 110 MW (as of February 2007) to 220 MW annually.

SUKM was Sharp's second international production base for solar modules following a facility in the US. It began operations in the spring of 2004 with an annual PV module production capacity of 20 MW. Since then, we have worked to expand production capacity to 50 MW in May 2005, and 110 MW in February 2006, and at this time, to further augment the production system to 220 MW annual capacity.

<http://www.hulig.com/9079/sharp-expands-solar-module-production-in-europe>

Wal-Mart looks to eliminate non-renewable energy product offerings

2/1/2007

Wal-Mart Stores announced a new "Sustainability 360" environmental initiative on Thursday, encouraging employees, suppliers, communities and customers to reduce the "company's direct environmental footprint."

"Sustainability 360 takes in our entire company – our customer base, our supplier base, our associates, the products on our shelves, the communities we serve," said Wal-Mart President and CEO Lee Scott. "And we believe every business can look at sustainability in this way. In fact, in light of current environmental trends, we believe they will and soon."

Scott said Wal-Mart will start looking at ways to remove non-renewable energy from the products it sells.

<http://news.mongabay.com/2007/0201-walmart.html>

DuPont Accelerating Biofuels Development, U.S. Senate Energy Committee is Told

2/1/2007

Speaking today before the U.S. Senate Committee on Energy and Natural Resources, DuPont Vice President of Bio-Based Technology Dr. John Pierce provided an overview of the company's strategy to accelerate biofuels production.

Pierce was part of a briefing on emerging biofuels. He reviewed current global biofuels issues, the future of cellulosic ethanol and next generation biofuels as replacements for gasoline transportation fuels.

"The biofuels market is ripe for innovation and commercialization," Pierce said. "DuPont's integration of modern biological tools into our world-renowned chemistry and engineering has positioned us as technology leaders in the development of bio-based chemicals and now fuels. President Bush visited our laboratories last week and received a tour of our three-part strategy to deliver new technologies to help biofuels become more competitive with petroleum."

<http://sev.prnewswire.com/chemical/20070201/PHTH017B01022007-1.html>

CLIMATE CHANGE

Activists 'Step Up' Challenge to Climate Change

2/5/2007

With public awareness about climate change approaching a tipping point, environmentalists are elevating their push for immediate steps to curb global warming.

On April 14, as part of a new campaign called Step it Up, activists in at least 47 states plan to rally simultaneously at different locations to demand that US carbon emissions be reduced by 80 percent over the next 40 years.

Actions will be held in hundreds of locations, including at landmarks such as the Hollywood sign and the Grand Canyon. Activists in Jacksonville, Florida, plan to hold "ask a scientist" sessions and are trying to partner with hardware stores to pass out compact fluorescent bulbs. Protesters

in Evansville, Indiana will march to the headquarters of utility company Vectren, to protest its plans to build a new coal power plant in the region.

http://newstandardnews.net/content/?action=show_item&itemid=4253

U.S. opts out of climate change panel

2/4/2007

Forty-five nations answered France's call yesterday for a new environmental body to slow inevitable global warming and protect the planet, perhaps with policing powers to punish violators. Absent were the world's heavyweight polluter, the United States, and booming nations on the same path as the U.S. - China and India.

The charge led by French President Jacques Chirac came a day after the release of an authoritative - and disturbingly grim - scientific report in Paris that said global warming is "very likely" caused by mankind and that climate change will continue for centuries even if heat-trapping gases are reduced. It was the strongest language ever used by the Intergovernmental Panel on Climate Change, whose last report was issued in 2001.

<http://www.concordmonitor.com/apps/pbcs.dll/article?AID=/20070204/REPOSITORY/702040375/1013/48HOURS>

Global warming report released in Paris

2/2/2007

The Intergovernmental Panel on Climate Change (IPCC) officially unveiled its long-awaited report on global climate change. The report was produced by some 600 authors from 40 countries and representatives from 113 governments reviewed and signed off on the report the course of this week.

The scientists said global warming was "very likely" -- with a greater than 90 percent level of confidence -- caused by human activity, specifically man's burning of fossil fuels. The report makes it clear that most of the currently observed global warming is not natural.

"Warming of the climate system is unequivocal, as is now evident from observations of increases in global average air and ocean temperatures, widespread melting of snow and ice, and rising global mean sea level," the scientists said.

"The scientific debate is over," said Spencer Weart, director of American Institute of Physics's Center for History of Physics in College Park Maryland. "It now becomes an economic and political debate" over how to deal with the problem of global warming, he said.

<http://news.mongabay.com/2007/0202-ipcc.html>

Darkness descends on Eiffel Tower in climate change campaign

2/2/2007

The city of light today dimmed as Parisians joined a five-minute "lights-out" campaign to express concern over climate change.

Even the Eiffel Tower, whose 20,000 sparkling bulbs light up the Paris skyline nightly, went dark between 7:55 p.m. and 8 p.m. (0025-0030 IST).

The nationwide lights-out, the brainchild of France's alliance for the planet conservation group, was timed before the release of a major climate change report warning that earth will keep getting warmer.

<http://www.zeenews.com/znnew/articles.asp?aid=351538&sid=WOR>

WIND ENERGY

Sandia helps develop new wind turbine blade design

2/7/2007

A new wind turbine blade design that researchers at Sandia National Laboratories developed in partnership with Knight & Carver (K&C) of San Diego promises to be more efficient than current designs. It should significantly reduce the cost-of-energy (COE) of wind turbines at low-wind-speed sites.

Named "STAR" for Sweep Twist Adaptive Rotor, the blade is the first of its kind produced at a utility-grade size. Its most distinctive characteristic is a gently curved tip, termed "sweep," which unlike the vast majority of blades in current use, is specially designed for low-wind-speed regions like the Midwest. The sites targeted by this effort have annual average wind speeds of 5.8 meters per second, measured at 10-meter height. Such sites are abundant in the U.S. and would increase by 20-fold the available land area that can be economically developed for wind energy.
http://www.eurekaalert.org/pub_releases/2007-02/dnl-shd020707.php

Global Wind Energy Market Grew 32 Percent in 2006 According to German Engineering Federation (VDMA)

2/5/2007

Worldwide, 15,200 megawatts of new wind generating capacity was installed in 2006, with about 15 billion euros (US\$19.5 billion) invested, an increase of 32 percent compared the previous year, VDMA said in a statement.

"We expect to achieve similar growth rates up to at least 2010," said Norbert Giese, head of the wind turbine producers in VDMA. The VDMA represents 3,000 mainly small and medium-size member companies in the engineering industry.

The growth in wind energy capacity last year was mainly driven by the US market, which installed new capacity of 2,454 MW, and by Germany, Spain, India and China.

http://www.solutions-site.org/artman/publish/article_315.shtml

NUCLEAR ENERGY

Nuclear power faces threat from seas

2/2/2007

Dozens of nuclear power reactors around the world could be threatened by rising sea levels and violent storms unless power companies spend millions on defending them from the effects of climate change.

Nuclear power plants need plentiful water for cooling so are usually near the sea or on rivers. All of the UK's operational plants, most of Japan's and many in the United States are on the coast. Intensifying fears of climate change have boosted the popularity of nuclear power because it emits no carbon dioxide, the gas largely responsible for global warming.

With sea levels likely to rise for at least the next 1,000 years, according to a United Nations report to be published on Friday, bolstering the flood defenses of the world's many coastal reactors looks set to become a more costly and time-consuming job -- one that could last for centuries.

<http://www.chinapost.com.tw/news/archives/editorial/200722/101567.htm>

OTHER LINKS AND REPORTS

Tackling Climate Change in the U.S.: Potential Carbon Emissions Reductions from Energy Efficiency and Renewable Energy by 2030

http://www.ases.org/climatechange/climate_change.pdf

Energy (R)evolution: A Blueprint for Solving Global Warming

<http://www.greenpeace.org/raw/content/usa/press/reports/energy-r-evolution-a-bluepr.pdf>

College Sustainability Report Card

<http://www.endowmentinstitute.org/sustainability/CollegeSustainabilityReportCard.pdf>

25% Renewable Energy for the United States by 2025: Agricultural and Economic Impacts

<http://www.agpolicy.org/ppap/REPORT%2025x25.pdf>

Curbing Climate Change: An Outline of a Framework Leading to a Low Carbon Emitting Society

http://www.vattenfall.com/www/vf_com/vf_com/Gemeinsame_Inhalte/DOCUMENT/360168vatt/386246envi/Curbing_climate_report.pdf

Global Risks 2007: A Global Risk Network Report

http://www.weforum.org/pdf/CSI/Global_Risks_2007.pdf

Eurobarometer: Energy Technologies: Knowledge - Perception - Measures

http://ec.europa.eu/research/energy/pdf/energy_tech_eurobarometer_en.pdf

World Energy Technology Outlook 2050

http://ec.europa.eu/research/energy/pdf/weto-h2_en.pdf

Annual Energy Outlook 2007

<http://www.eia.doe.gov/oiaf/aeo/index.html>

Stern Review Report on the Economics of Climate Change

http://www.hm-treasury.gov.uk/independent_reviews/stern_review_economics_climate_change/sternreview_index.cfm

Offsetting Emissions: A Business Brief on the Voluntary Carbon Market

http://www.bsr.org/meta/BSR_Voluntary-Carbon-Offsets.pdf

Freeing the Grid: How States Can Revolutionize U.S. Energy Policy

http://www.newenergychoices.org/dev/uploads/NNEC%20Net%20Metering%20Report_EMBARGOED.pdf

Climate Neutral Bonding: Building Global Warming at the State and Local Levels

<http://www.newrules.org/de/climateneutralbonding.pdf>

REN21 Renewables Global Status Report

http://www.ren21.net/globalstatusreport/download/RE_GSR_2006_Update.pdf

Impacts on U.S. Energy Expenditures of Increasing Renewable Energy Use

<http://www.energyfuturecoalition.org/pubs/RAND.pdf>

Managing Climate Risk: Integrating Adaptation into World Bank Operations

<http://siteresources.worldbank.org/GLOBALENVIRONMENTFACILITYGEFOPERATIONS/Resources/Publications-Presentations/GEFAdaptationAug06.pdf>

Energy Independence: Record vs. Rhetoric

<http://home.ourfuture.org/reports/energy-independence-report.html>

Renewable Energy Country Attractiveness Indices

[http://www.ey.com/Global/download.nsf/International/ECU_-_Country_Attractiveness_Indices_-_Q3-2006/\\$file/EY_CountryAttractivenessIndices_Q32006.pdf](http://www.ey.com/Global/download.nsf/International/ECU_-_Country_Attractiveness_Indices_-_Q3-2006/$file/EY_CountryAttractivenessIndices_Q32006.pdf)

Revisiting EU Policy Options for Tackling Climate Change: A Social Cost-Benefit Analysis of GHG Emissions Reduction Strategies

http://shop.ceps.be/BookDetail.php?item_id=1399

Trans-Mediterranean for Concentrating Solar Power

http://www.dlr.de/tt/institut/abteilungen/system/projects/all_projects/Projektbeschreibung_TRANS-CSP/Final%20Report%20in%20PDF/TRANS-CSP_Full_Report_Final.pdf

Powering a Sustainable Future

http://www.wbcd.org/DocRoot/0d6TANhJQ0ZhGXGHDcJ3/powering_sustainable_future.pdf

Race to the Top: The Expanding Role of U.S. State Renewable Portfolio Standards

<http://www.pewclimate.org/docUploads/RPSReportFinal%2Epdf>

Getting Ahead of the Curve: Corporate Strategies That Address Climate Change

http://www.pewclimate.org/global-warming-in-depth/all_reports/corporate_strategies/index.cfm?source=prweb

A Three-Pronged Approach to Corporate Climate Strategy

http://www.bsr.org/meta/BSR_Climate-Change-Report.pdf

CHALLENGE AND OPPORTUNITY: CHARTING A NEW ENERGY FUTURE

<http://www.energyfuturecoalition.org/pubs/EFCReport.pdf>

Climate Change – the Costs of Inaction

<http://ase.tufts.edu/gdae/Pubs/rp/Climate-CostsofInaction.pdf>

Feeling the Heat: Global Warming and Rising Temperatures in the United States

<http://www.environmentcalifornia.org/uploads/1g/lt/1gltxsGFMOXT1fITnm5Ofw/Feeling-the-Heat.pdf>

A New Energy Future: The Benefits of Energy Efficiency and Renewable Energy for Cutting America's Use of Fossil Fuels

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American Energy: the Renewable Path to Energy Security

<http://images1.americanprogress.org/il80web20037/americanenergynow/AmericanEnergy.pdf>

Global Wind Energy Outlook 2006 Report

http://www.gwec.net/fileadmin/documents/Publications/Global_Wind_Energy_Outlook_2006.pdf

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Carbon Disclosure Project

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Climate Change and Insurance: An Agenda for Action in the United States

<http://www.worldwildlife.org/news/pubs/allianzwwf.pdf>

Wind Turbine Development: Location of Manufacturing Activity

<http://www.repp.org/articles/static/1/binaries/WindLocatorShort.pdf>

Solar PV Development: Location of Economic Activity

<http://www.repp.org/articles/static/1/binaries/SolarLocator.pdf>

Repowering the Midwest: The Clean Energy Development Plan for the Heartland

Environmental Law & Policy Center, Citizens Action Coalition, et al

<http://www.repowermidwest.org>

Renewable Potential Maps – U.S. Census Division

U.S. Department of Energy - http://www.eia.doe.gov/emeu/reps/remap/e_n_c.html

ELPC Energy Project

Environmental Law & Policy Center - <http://www.elpc.org/energy/index.html>

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