

Repowering Indiana Weekly - 3/2/07

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LOCAL

CANI and NIPSCO Team Up for Heating and Winterization Assistance

3/1/2007

After a brutally cold February, heating costs will no doubt soar for most utility customers. Two local agencies are coming together to help with heating assistance, but that help's not limited to just bills.

... Through its winter warmth fund, NIPSCO and its customers are donating \$40,000 to CANI, to help weatherize more homes.

"It breaks that cycle of homes that are hard to heat, are energy inefficient and are uncomfortable, by making that one-time investment in home weatherization," says Graham.

<http://www.wane.com/Global/story.asp?S=6163921&nav=0RYb>

Adopting 'green' design is smart, cost-effective

3/1/2007

As the owner of an interior design firm, Innovative Design Offerings, or i.d.o., Jill Mendoza supports the "green building" movement.

She believes so strongly in the use of renewable materials and energy-efficient systems that she has made her new Downtown headquarters a template for clients by incorporating those principles in its design.

... Indiana isn't one of 18 states that have approved laws or other incentives for green building efforts, but that could change, said Bill Brown of Browning Day Mullins & Dierdorf Architects. House Bill 1812, co-authored by Terri J. Austin, D-Anderson, and Ryan Dvorak, D-South Bend, promoted energy efficiency by seeking to require that all public buildings meet Leadership in Energy and Environmental Design specs for a silver rating, starting in 2008. Under the bill, counties could have offered tax breaks if buildings met LEED guidelines.

But the bill is dead, for now. It was defeated Feb. 22 on a third reading, by a 49-48 vote.

<http://www.indystar.com/apps/pbcs.dll/article?AID=/20070301/BUSINESS/703010394/1003/BUSINESS>

Consumer advocate seeks limit for Vectren rate proposal

2/28/2007

Indiana's utility consumer advocate is recommending Vectren Corp. receive slightly more than half of its requested electric rate increase.

In testimony filed this week, the Indiana Office of Utility Consumer Counselor said the Evansville-based utility should receive only about \$51 million of the company's requested annual electric rate increase of \$90.4 million.

Vectren's last electric base rate was approved in 1995. Last September, the company said it needed additional revenue to cover higher operating costs, pollution control costs and to meet reliability measures.

The Indiana Utility Regulatory Commission has not made a final decision on the matter. A hearing is scheduled for April 12 in Indianapolis.

<http://www.courierpress.com/news/2007/feb/28/consumer-advocate-calls-limit-vectren-rate-proposal/?ebj=1/>

House looks to replace NIPSCO

2/28/2007

The first step toward creating a public power authority to replace NIPSCO's electric operations was taken Monday by the Indiana House when it approved a bill that would require a state-led feasibility study into the issue.

The measure passed the House by a vote of 57 to 42. The legislation now moves to the state Senate where LaPorte County Commissioners President Barb Huston said she was "hopeful" for passage, since "this should have appeal on both sides of the aisle."

The study would evaluate existing utility operations, provide financing options for a public power authority, compare similarly-sized power authorities elsewhere in the country, provide a cost-

benefit analysis and determine if creating such a public power authority would be in the public interest.

<http://www.post-trib.com/business/275580,nipsco.article>

Duke Energy gets go-ahead on coal-fired unit

2/28/2007

The N.C. Utilities Commission today authorized Duke Energy Carolinas to build one 800-megawatt coal-fired power plant in Rutherford County instead of the two 800-megawatt units the company originally requested.

<http://www.citizen-times.com/apps/pbcs.dll/article?AID=200770228060>

Ants may help us adjust to global warming

2/28/2007

A U.S.-led team of international biologists says some ants have adjusted to well to urban warming and may help other species adapt to such climate change.

The researchers, led by Michael Angilletta of Indiana State University, note large cities can be more than 10 degrees hotter than their surroundings, with such urban heat islands stressing animals and plants.

<http://www.sciencedaily.com/upi/index.php?feed=Science&article=UPI-1-20070228-14452600-bc-us-globalwarming.xml>

Lawmaker drops push for NIPSCO review

2/27/2007

A Northwest Indiana lawmaker has abandoned his push to put a potential NIPSCO sale before a special state review.

State Rep. Scott Pelath, D-Michigan City, said he couldn't secure sufficient legislative support for his plan to have the Indiana Utility Regulatory Commission conduct a cost-benefit analysis before utility companies change hands.

"This year it doesn't appear that there's the votes or the will necessary to give full authority to the IURC in order to oversee holding company transactions," Pelath said. "The other thing is, they haven't necessarily asked for the authority."

The proposal, House Bill 1824, was prompted by reports that NiSource Inc. is shopping NIPSCO, its electric service arm. The legislation, which passed the House 57-42 on Monday, now simply calls for a study that would explore creating a nonprofit public entity to take over NIPSCO operations.

<http://www.thetimesonline.com/articles/2007/02/27/business/business/docb544eea3d13f2c888625728e007a3c51.txt>

Citizens Gas may lay off 300

2/23/2007

Around 300 Citizens Gas and Coke Utility employees found out Friday they could be laid off within two months due to the plant being sold.

The employees whose jobs are in question work in the Indianapolis Coke Manufacturing Division. A federal law requires companies to give a 60-day notification of possible layoffs. Workers found out from a letter, and meetings are being held with employees at the plant at 2950 Prospect Street on the city's southeast side.

<http://www.wthr.com/Global/story.asp?S=6131763&nav=9Tai>

NATION

City of San Diego Unveils 1-Megawatt Solar System at City's Alvarado Water Treatment Plant

3/1/2007

City of San Diego Mayor Jerry Sanders today launched a new 1.135 megawatt solar power installation at San Diego's Alvarado Water Treatment Plant. The panels produce about 20 percent of the plant's power, with annual electricity savings estimated at \$40,000.

The Alvarado photovoltaic installation was built under a power purchase agreement (PPA) with SunEdison, North America's largest solar services company. Under the agreement, San Diego citizens benefit from clean, solar energy with no upfront cost, thereby avoiding an estimated \$6.5 million in capital installation. SunEdison built, owns and will maintain the solar system. SunEdison will sell the solar energy to the City's Water Department at costs lower than SDG&E rates.

<http://www.renewableenergyaccess.com/rea/partner/story?id=47619>

Connecticut College continues commitment to renewable energy

3/1/2007

For five years, Connecticut College has purchased renewable energy certificates (RECs) that provide a subsidy for production of wind energy equal to a percentage of the college's annual electricity consumption. This year, for the first time, the college is offsetting 100 percent of its annual electricity consumption.

Coordinated by the college Environmental Model Committee (EMC), the college purchased renewable energy certificates that balance 15 million kilowatt hours - 100 percent of the college's electricity usage. Last year, the college purchased RECs equal to 47 percent of the college's annual electricity consumption, up from 41, 40, 24 and 17 percent in the first four years of the program.

<http://aspden.conncoll.edu/camelweb/index.cfm?fuseaction=ccnews&id=3256>

Staples goes solar in Killingly

2/28/2007

The rising cost of electricity has a lot of people looking to other ways to stay warm and save energy. A solar surge is putting Connecticut on the map.

The Staples distribution center in Killingly is larger than six acres and has three miles of conveyor belts. But what may be most impressive about this massive building is up on the roof.

Mark Buckley, who heads Staples' environmental efforts, says this is the largest solar power installation in New England. From Chopper 8 you can see the solar panels which cover the roof. They are not the larger angled panels people are used to seeing.

<http://www.wtnh.com/Global/story.asp?S=6157326>

FSU students building house that is energy independent

2/28/2007

What is a rectangle of dirt today may turn into an entirely energy self-sustainable house of the future by December.

The Off-Grid, Zero Emission Building, or OGZEB, is being built at Florida State University under the watchful eye of mechanical engineering professor Anjaneyulu Krothapalli, with the help of several other faculty and graduate students.

"We are building a house that's not connected to the grid, completely run by solar during the day, and the house during the night will be running on hydrogen," he said. "That is unique. All the materials in the house are recyclable and green materials."

<http://www.tallahassee.com/apps/pbcs.dll/article?AID=/20070228/NEWS01/702280323/1010/NEWS01>

Legislative Study: Wind Energy Can be Incorporated into Existing Power Grid

2/27/2007

The recently completed Midwest Wind Integration Study shows that, under certain conditions, wind power could account for up to one-fourth of the delivered energy in an electrical utility's

resource portfolio without sacrificing reliability, incurring only minor costs for absorbing the wind energy — good news for those in the composites industry who have staked a sizable claim in the wind energy sector.

<http://www.compositesworld.com/ct/issues/2007/February/111195>

Scientist takes aim at coal-fired power plants

2/27/2007

One of the world's top scientists on global warming called for the United States to stop building coal-fired power plants and eventually bulldoze older generators that don't capture and bury greenhouse gases.

... "There should be a moratorium on building any more coal-fired power plants," NASA scientist James Hansen told the National Press Club on Monday. Hansen was one of the earliest top researchers to warn the world of global warming.

<http://www.delawareonline.com/apps/pbcs.dll/article?AID=/20070227/BUSINESS/702270324/1003>

San Jose ranked No. 2 in cleantech growth potential

2/27/2007

San Jose ranks second in the nation among U.S. cities that are leading the way in "cleantech" -- the term that refers to venture capital-funded technology start-ups in everything from biofuels to renewable energy, according to a report released Tuesday.

SustainLane Government, a sustainability knowledge base and networking Web site for state and local governments, released its top five cities with the most prominent emerging cleantech incubation clusters, which it said are likely to help drive 21st Century metro area economic growth.

http://sanjose.bizjournals.com/sanjose/stories/2007/02/26/daily30.html?jst=cn_cn_lk

Westar looking for renewable-energy projects

2/27/2007

Westar Energy is asking for proposals to develop up to 500 megawatts of electricity from renewable resources.

Topeka-based Westar, Kansas' largest electric utility, said it would like some of that electricity to be online by the end of 2008 and the rest by the end of 2010. It wants proposals by April 2.

<http://www.kansascity.com/mld/kansascity/business/16794989.htm>

Progress Energy Kicks Off New Solar Power Initiative

2/26/2007

Progress Energy's new solar power initiative officially kicked off Monday.

A customer in Longwood, Colleen Kettles, is the first to get a solar water heating system under the new program.

Progress Energy said the new program will benefit the environment and save money on electric bills.

"I'm getting a rebate from Progress Energy in the amount of \$450, a rebate from the state of Florida for \$500, a 30-percent tax credit from the federal government. I'm getting a credit on my monthly electric bill by using load management. So people are paying me, now, to save energy," Kettles said.

<http://www.wftv.com/news/11115530/detail.html>

Nevada solar power harnessed for hydrogen generation

2/26/2007

Researchers at the University of Nevada have said that the state could become a centre for the generation of hydrogen through solar energy.

According to Professor Manoranjan Misra and his associates, who are currently developing hydrogen generation technology, Nevada's sunny climate could make it an ideal location for hydrogen generation.

Currently, Professor Misra has developed a small-scale hydrogen generation system that uses applied ultrasonic waves to create hydrogen from water.

<http://www.fuelcelltoday.com/FuelCellToday/IndustryInformation/IndustryInformationExternal/NewsDisplayArticle/0,1602,8842,00.html>

Environmentalists hail takeover plan for Texas utility

2/26/2007

The board of Texas' largest electric utility last night tentatively approved a record \$45 billion takeover bid by two private equity firms in a deal hailed by environmentalists as a major turning point in the battle against global warming.

The prospective owners of the TXU Corp. have told environmental groups that they would cancel eight of 11 coal plants proposed by the company and also back national legislation for mandatory reduction in carbon dioxide emissions, a major contributor to climate change.

http://www.boston.com/news/nation/washington/articles/2007/02/26/environmentalists_hail_takeover_plan_for_texas_utility/

'Green' features make new building energy efficient

2/25/2007

Forget the brown paint on its exterior — with solar power, an efficient air conditioner and a rooftop garden, the new Redding Library is green.

And the building's green, or environmentally friendly, features aren't tucked away. Monitors in the lobby show how much solar power the building is using, the big, metal drums of the cooling unit dominate the view from some of the windows in the children's library, and the massive windows on the second floor look out on the garden.

<http://www.redding.com/news/2007/feb/25/green-features-make-new-building-energy-efficient/>

Utility studies energy storage in car batteries

2/24/2007

California's biggest utility, Pacific Gas & Electric Co., is considering a plan to charge fleets of battery-powered cars overnight with wind energy and let consumers sell back some of the stored electricity during the day.

In addition to reducing oil consumption and greenhouse gas emissions from standard cars, the plan could help stoke production of plug-in hybrid electric vehicles and give power managers more energy capacity on the grid for hot summer afternoons, speakers said at a "clean technology" investment conference in San Francisco this week.

<http://www.latimes.com/business/la-fi-pge24feb24,1,2986949.story?coll=la-headlines-business&ctrack=1&cset=true>

Proposed wind farm near Cut Bank may double in size

2/24/2007

Construction of the state's largest commercial wind farm would be part of billions of dollars of investment in wind projects in Montana and Alberta over the next few years, which renewable energy developers say will result from a deal announced Friday.

Somers-based Great Plains Wind & Energy LLC, the developer of a proposed wind farm in Montana, was sold to the much larger Naturener, which is based in Spain, with its North American headquarters in San Francisco.

Naturener's first announcement was its intention to more than double the size of the proposed McCormick Ranch Wind Park from 120 to 300 megawatts. That would make the project in Toole and Glacier counties even bigger than the 135-megawatt wind farm in Judith Gap, the state's sole wind farm producing at a large commercial level.

<http://www.greatfallstribune.com/apps/pbcs.dll/article?AID=/20070224/NEWS01/702240303>

Save Energy & Win Breakfast in Bed

2/23/2007

How does breakfast in bed sound for a grand prize?

The Student Environment Alliance (SEA) will be having another George Goes Green competition among WC dorms to promote energy conservation.

Who needs a light on in an empty bathroom?

That is what senior and SEA member Shannon Holste asked as she organized this campus wide event.

"We saved the school about \$4,000 last year with the competition," Holste said.

<http://elm.washcoll.edu/past/078/16/save.php>

Solar Provider Expands Into The East Coast

2/23/2007

Sacramento, Calif.-headquartered SunTechnics, a provider of solar products and subsidiary of Conergy, has expanded to the East Coast by acquiring Mesa Environmental Sciences Inc. - now operating under the name Mesa Energy LLC.

With the acquisition of Mesa, which installs solar thermal and photovoltaic (PV) systems, SunTechnics has extended its sales offices to Malvern, Pa., and Marlton, N.J. According to the company, one of the first projects to be initiated under the acquisition involves installing a PV array at Friends Center Building in Philadelphia. The 10 kW system will generate about 12,000 kWh and reduce carbon emissions by 15 tons per year, the company says.

http://www.aer-online.com/e107_plugins/content/content.php?content.307

Fla. touts grants for renewable energy

2/23/2007

A Clewiston-based company that will turn citrus waste into ethanol is among eight recipients sharing \$15 million in state money to enhance Florida's renewable energy production, state officials announced Thursday.

Citrus Energy LLC received \$2.5 million from the Renewable Energy Technologies Grants Program, which lawmakers created in the budget that was signed into law last year. It is part of a growing push to emphasize renewable energy as the nation tries to wean itself off foreign oil, some of which comes from countries that are hostile to the United States.

<http://www.businessweek.com/ap/financialnews/D8NFGMDO0.htm>

Air Force exploring renewable energy sources

2/22/2007

Air Force officials are investigating the use of renewable energy like wind, solar and geothermal source for use in the future as an alternative to petroleum said the assistant secretary of the Air Force for Installations, Environment and Logistics.

William C. Anderson believes changes to how energy is supplied will change in the future, but he said it is hard to predict what the prominent source of energy is going to be a dozen years from now.

The need for Airmen being committed to finding new ways to reduce the demand for energy won't change, he said. Helping out can be as simple as turning off your monitor or thinking about Air Force Smart Operations for the 21st century.

<http://www.af.mil/news/story.asp?storyID=123042174>

S.F. seeks partner for solar power program

2/22/2007

The City is ready to partner with a private company to develop large-scale solar power facilities — and has \$100 million of bond revenue to bring to the table — Mayor Gavin Newsom announced at a gathering of green technology entrepreneurs and investors Wednesday.

Although voters approved a \$100 million revenue bond measure in 2001 to pay for solar equipment on city-owned buildings, that money has gone unspent because of a restriction that required each solar project to generate power that would cost the same or less than using

electricity from the traditional power grid, according to Tony Winnicker, a spokesman for the San Francisco Public Utilities Commission.

A state measure that went into effect Jan. 1, authored by Assemblyman Mark Leno, now allows The City to use the bond measure money to build large-scale solar projects at large and remote sites, such as at reservoirs, and divert that power to other locations.

http://www.examiner.com/a-579028~S_F_seeks_partner_for_solar_power_program.html

A green energy effort has the wind in its sails

2/22/2007

A grass-roots effort to fight global warming and high utility bills is sprouting in the suburbs, as advocates push for renewable energy in schools and local governments one step or solar panel at a time.

In Lexington and Arlington, members of groups promoting fossil fuel alternatives are urging residents to contribute to the New England Wind Fund to qualify for free 2-kilowatt solar energy systems to be used by the towns' municipal buildings.

In Medford, solar panels atop Hormel Stadium and City Hall are already saving the city \$2,000 a year.

And in Lowell, University of Massachusetts facility managers have invested in wind energy to help power residence halls.

The changes often begin with grass-roots efforts.

http://www.boston.com/news/local/articles/2007/02/22/a_green_energy_effort_has_the_wind_in_its_sails/

Largest U.S. wind project pending approval

2/22/2007

The \$3 billion, 750 turbine wind project in Tehachapi, Calif., would be the largest in the United States if it's approved by state regulators.

Alta Wind Energy's proposed project, in partnership with Oak Creek Energy Systems, Inc. would cover 50 square miles and generate possibly 1,500 megawatts, the Californian reported. The current largest U.S. wind project generates about 750 megawatts, half of Alta's proposed project.

http://www.upi.com/Energy/Largest_US_wind_project_pending_approval/20070222-020106-5490r/

Wind turbines planned for '08

2/22/2007

With legislative and regulatory action this year in Lansing supporting alternative energy, Michigan's leading wind energy proponent is ready to start building in 2008 the first of 90 wind turbines planned for Oceana County.

Mackinaw Power President Rich Vanderveen said his company has secured 35 leases from farmers in four Oceana townships: Weare, Elbridge, Hart and Crystal. That makes 5,000 acres of farm land available for the General Electric wind turbines Mackinaw Power plans for the north central part of the county.

<http://www.mlive.com/news/muchronicle/index.ssf?base/news-10/1172159174106730.xml&coll=8>

WORLD

More subscribers sign up to renewable energy scheme

3/2/2007

More Canberrans are voting for green power through their electricity bills.

ActewAGL says there has been a 24 per cent rise in demand for its renewable energy scheme, Green Choice, since December or 1,700 new subscribers.

Under the scheme customers can elect to have up to 15 kilowatt hours per day of electricity from renewable sources including solar, wind, hydro and biomass for an extra 5.5 cents per unit.

ActewAGL's Emma Tattam says as new technologies become available the range of providers will be increased.

<http://www.abc.net.au/news/newsitems/200703/s1861077.htm>

Carmanah Awarded \$1.4M Contract for Canada's Largest Solar Power System

3/1/2007

Carmanah Technologies Corporation (TSX: CMH) (FRANKFURT: QCX) ("Carmanah") is pleased to announce that the Company has been awarded a contract in the amount of \$1,423,402 from Public Works & Government Services Canada (PWGSC) for a 108-kilowatt (kW) solar power system to be installed on the roof of the Jean Canfield Building in Charlottetown, Prince Edward Island. This installation will become the largest solar power system in Canada.

<http://www.sys-con.com/read/343891.htm>

Cape Town and business launch energy efficiency initiative

2/28/2007

Business has joined hands with the City of Cape Town to lead the way in energy efficiency within the city.

Speaking Wednesday at the launch of the city's energy efficiency initiative with business, Mayor Helen Zille said more sustainable solutions were required if "we want to continue to grow and use energy without suffering the consequences of lack of supply".

While recent blackouts in the Western Cape made short term reductions imperative, it was now time for more sustainable solutions, she said.

The initiative is in support of the City of Cape Town Energy and Climate Change Strategy.

<http://www.buanews.gov.za/view.php?ID=07022816451001&coll=buanew07>

Adfec to pump billions into new projects

2/28/2007

Abu Dhabi Future Energy Company (ADFEC) is planning to invest several billion dollars in new projects in the next few years, a company official said yesterday.

Sultan Ahmad Al Jaber, ADFEC's Chief Executive, said Abu Dhabi Future Energy Company will launch a project in 2007.

"We are planning to launch several projects in the near future and develop a new economic sector dedicated to alternative and sustainable energy for Abu Dhabi and the UAE," said Al Jaber.

http://www.gulfnews.com/business/Oil_and_Gas/10107564.html

German Conservatives Up Renewables Ante

2/27/2007

In a German Press Association news report, Germany's CDU (Christian Democratic Party) is proposing to raise the country's renewable energy targets.

Germany currently has the most aggressive renewable energy policy on the planet.

The CDU, not to be outdone by the former ruling party, has proposed raising the country's renewable energy target of 20% of the electricity supply in 2020 to 35%.

The CDU, Germany's leading conservative party, also proposes raising the renewable energy target in heating from 20% of supply to 25% and in transportation fuels to more than 20% of supply by 2020.

<http://www.renewableenergyaccess.com/rea/news/story?id=47579>

First Part of Massive Spanish Solar Power Plant to Startup in April

2/27/2007

The first part of a major 300 megawatt (MW) solar power operation in southern Spain is finished and could start producing electricity in April, its owner Abengoa said on Tuesday.

The first of two solar thermal power plants is finished and now being prepared for production, with a capacity of 11 MW.

Construction of a second tower, with 20 MW of potential, started last year. Both use mirrors to

concentrate the sun's rays onto the top of a 100 meter (300 foot) tower where they produce steam to drive a turbine.

<http://www.greenoptions.com/node/3206>

Solar Power Project In Pulau Kapas Ready Soon

2/27/2007

Tenaga Nasional Bhd (TNB)'s hybrid electricity supply system in Pulau Kapas is expected to come on stream in May at the latest.

The system that uses both diesel and solar energy, can generate up to 100 megawatt of electricity.

TNB Distribution senior general manager (region two operation) Ir Azman Mohd said the system could supply electricity to eight commercial customers comprising resort operators on the island.

http://www.bernama.com.my/bernama/state_news/news.php?id=248929&cat=et

Scotland Boosts Ocean Power with \$25 M Grant

2/26/2007

More than GBP 13 million [U.S. \$25 million] worth of funds were awarded last week by the Scottish Executive -- the devolved government of Scotland -- for marine energy projects in Scottish waters, mostly in Orkney where one of the largest commercial wave power farms in the world is being developed by ScottishPower.

Nine projects will share the funding, with the initial GBP 7.6 million [U.S. \$15 million] committed by the government for companies to develop marine energy project last October increased by GBP 5 million [U.S. \$10 million] to meet demand.

<http://www.renewableenergyaccess.com/rea/news/story?id=47556>

Church warms to solar power

2/26/2007

A VALLEYS church has turned to solar power to save the congregation from shivering through the Sunday morning services.

St Joseph's Church in Cwmaman, Aberdare, has installed 30 solar panels on the roof as part of a £250,000 refurbishment.

The grant-funded project aims to revive the 138-year-old building which had fallen into disrepair.

http://icwales.icnetwork.co.uk/0100news/0200wales/tm_headline=church-warms-solar-power&method=full&objectid=18677652&siteid=50082-name_page.html

Energy-Saving Bulbs Near "Tipping Point"

2/26/2007

European light bulb makers are close to an agreement in principle to work together on phasing out energy-wasting incandescent bulbs for the consumer market, the chief executive of Royal Philips Electronics NV's lighting division said Monday.

Philips is the largest lighting maker globally, followed by Siemens AG, known for the Osram-Sylvania brands. General Electric Co., whose founder Thomas Edison patented the incandescent bulb in 1880, is biggest in the United States.

In a telephone interview with The Associated Press, Theo van Deursen said "the tipping point is very close, to be frank, for the (European) lighting industry" to agree on a phase-out of incandescent bulbs in the home. He said an announcement from a group of major producers could come as early as this week.

<http://www.chron.com/disp/story.mpl/ap/fn/4582912.html>

Country sets renewable energy target

2/27/2007

China has set a target of increasing renewable energy use from the present 10 percent to 20 percent of the total energy consumption by 2020 to meet the increasing demand and reduce the greenhouse effect.

"Wind power has the greatest potential in renewable energy, and biomass will help in fuel consumption," said Wind Energy Association Vice-Chairman Shi Pengfei.

http://www.chinadaily.com.cn/china/2007-02/27/content_814469.htm

US, EU envoys visit solar-powered village

2/25/2007

<http://www.abs-cbnnews.com/storypage.aspx?StoryId=68057>

Emirates, MIT team up for green energy

2/25/2007

Leaders of this major oil-producing Gulf country said Sunday they were plunging into the field of renewable energy, announcing a joint research venture into green energy with the Massachusetts Institute of Technology.

The announcement comes a few months after the World Wildlife Fund labeled the Emirates the world's biggest per-capita producer of globe-warming greenhouse gases, mainly due to its profligate energy consumption.

The Emirates' early entry into the renewable energy arena comes amid squabbling over whether similar reforms should be embraced in the world's largest energy consumer, the United States.

<http://www.businessweek.com/ap/financialnews/D8NGVTG00.htm>

Clean energy boost

2/25/2007

ENOUGH renewable energy to power a city bigger than Brisbane was generated in Australia last year, most sourced from wind and hydro.

Figures released to *The Sunday Telegraph* show Australia generated enough clean energy last year to supply residential power for a city of 2.3 million people for 12 months.

The generation of renewable energy has increased nine-fold since national industry targets were set six years ago.

More than 5432 gigawatt-hours (GWh) of electricity was generated from clean sources in 2006 - up from 620GWh in 2001.

<http://www.news.com.au/dailytelegraph/story/0,,21281382-5006009,00.html>

Germany's Lufthansa looking for climate change partner

2/24/2007

Lufthansa, one of Europe's largest airlines, is looking for a business partner in a scheme to allow passengers to pay a voluntary supplement for a carbon-compensation ticket, a spokesman for the German company said Saturday.

http://jurnalo.com/jurnalo/storyPage.do?story_id=19662

Contact Energy plans for \$2b in projects

2/24/2007

Contact Energy has laid out \$2 billion of geothermal and wind energy development in the next five years which has elbowed out the prospect of a capital repayment for shareholders any time soon.

<http://www.stuff.co.nz/3972176a13.html>

World's biggest photovoltaic power system

2/23/2007

The juwi group has received building approval for the world's biggest photovoltaic power system.

At a former military air base to the east of Leipzig, juwi is installing a 40-megawatt solar power system using state-of-the-art thin-film technology, to be finished by the end of 2009. The

installation in the Muldentalkreis district in the state of Saxony in eastern Germany will be built on half of the location's 220 hectares in the townships of Brandis and Bennewitz. The area is about one kilometre wide and approximately two kilometres long. It takes more than an hour to walk around it.

First Solar is supplying the modules for the Waldpolenz solar park. Most of the approximately 550,000 modules will be produced in the German town of Frankfurt on Oder.

<http://home.nestor.minsk.by/build/news/2007/02/2314.html>

U of G to Host High School Wind Energy Contest

2/22/2007

High school students thinking green will have a chance to pocket some green at the University of Guelph's first-ever wind energy design competition.

Competitors must design an energy-generating wind turbine to be tested in a wind tunnel on campus. The winning team will be the one whose windmill produces the highest average power output (judges will also consider design functionality, weight, stability and presentation).

http://www.uoguelph.ca/mediarel/2007/02/post_32.html

PUBLIC POLICY

Pelosi Supports Important U.S. Solar and Fuel Cell Bill

2/28/2007

In a meeting last Wednesday with solar and environmental lobbyists, House Speaker Nancy Pelosi expressed her support for H.R. 550, an important bill that would extend the residential and commercial investment tax credit (ITC) for solar and fuel cell equipment for eight years -- and revise other key tax credits for those industries.

Pelosi and San Francisco Mayor Gavin Newsom met with members of the Vote Solar Initiative, PV Now, the Union of Concerned Scientists and the Natural Resources Defense Council at the Mascone Convention Center to discuss legislative priorities for the environment and renewable energy.

<http://www.renewableenergyaccess.com/rea/news/story?id=47595>

US passes Spain as best place to invest in RE

2/28/2007

The United States has pushed Spain out of the top spot as the number one country worldwide to invest in renewable energy, according to the latest "Ernst & Young Renewable Energy Country Attractiveness Indices" for the third quarter of 2006. India, the UK and Germany remain 3rd, 4th and 5th respectively.

The US scored 71 in the 'all renewables index', with individual scores per renewable technology of 72 for wind, 75 for solar and 64 for investment in biomass energy. Spain scored 68 for investment in 'all renewables', coming in just below the US which moves up from second place.

http://www.greenprices.com/eu/newsletter/GPBE_41_070301/Investing.asp

State takes steps to increase renewable energy

2/28/2007

The Michigan Public Service Commission approved staff recommendations that call for the improvement of electric interconnections between independent power producers and public utilities.

Independent power generators can be individual residents, hospitals or commercial entities.

<http://www.freep.com/apps/pbcs.dll/article?AID=/20070228/NEWS06/70228014/0/NEWS06>

Congress Receives Renewable Energy Action Plan

2/28/2007

Leaders from an alliance of agricultural, energy, environmental, business and labor groups presented Congress this morning with a plan for 25% of the U.S. energy supply to be made up of

renewable fuels by 2025.

The 25x25 Action Plan provides policy makers with 35 specific recommendations for meeting the ambitious energy goal, which the plan's Steering Committee says would cost only 5% of America's spending on imported oil in 2006.

The recommendations are based on the reviews and recommendations of over 400 organizations, including farm groups such as the American Farm Bureau Federation, environmental groups like the National Wildlife Federation, and General Motors.

<http://americanagriculturist.com/index.aspx?ascid=fpStory&fpsid=27245&fpstid=1>

Patrick says state wants clean-energy business

2/27/2007

Massachusetts Governor Deval Patrick reaffirmed his support for what he called the "complicated" Cape Wind energy project yesterday, saying he wants to create jobs in the Bay State by encouraging growth of the clean-energy industry.

Speaking at a conference here, Patrick said the turbine farm planned for Nantucket Sound is "a symbol of the kind of economy" that he wants to cultivate in Massachusetts. The governor said he wants to attract the entire renewable energy industry to the state, including companies that would design and manufacture wind turbines, hybrid cars, and solar panels, in addition to establishing conservation consulting firms.

http://www.boston.com/news/local/massachusetts/articles/2007/02/27/patrick_says_state_wants_clean_energy_business/

Clinton to introduce clean energy bill

2/27/2007

On Monday afternoon, Senator and presidential candidate Hillary Clinton visited Northeast Biofuels in Volney. There she proposed her strategic energy plan, a \$50 billion investment into alternative energy.

Senator Clinton said, "We've got to transform the way we produce and use energy. We've got to move away from foreign sources of energy like oil and toward domestic renewables."

<http://www.capitalnews9.com/content/headlines/?ArlD=206086&SecID=33>

Colorado renewable energy bill passes state house

2/27/2007

A bill to double Colorado's renewable energy supplies was adopted by the state's House of Representatives late on Monday and sent to the Senate for debate.

The measure, which passed by a 59-to-5 vote, would raise Colorado's renewable portfolio standard (RPS) to 20 percent from 10 percent by 2020, directing investor-owned utilities to add more energy resources such as wind, solar and geothermal power.

It would also set the state's first renewable energy standard for electric cooperatives, requiring them to derive 10 percent of their electricity from renewables by 2020.

<http://www.reuters.com/article/bondsNews/idUSN2730192820070227>

Energy Secretary Seeks Fast Track for Efficiency Standards

2/26/2007

Energy Secretary Samuel Bodman today sent legislation to Congress requesting authorization to speed up the process of establishing energy efficiency standards and bringing more efficient products to market sooner.

Under the proposed legislation, establishing a streamlined process would be achieved through a direct final rule when manufacturer, stakeholder, and government consensus exists.

More than 30 products could be included if legislation is enacted - refrigerators, central air conditioners, furnaces, water heaters, clothes washers and dishwashers; as well as smaller home equipment such as ceiling fans, torchiers, dehumidifiers, and fluorescent and incandescent lights.

<http://www.ens-newswire.com/ens/feb2007/2007-02-26-09.asp#anchor3>

Five Governors Agree to Work on Climate Change

2/26/2007

Governors from five Western states agreed Monday to work together to reduce greenhouse gases, saying their region has suffered some of the worst of global warming with recent droughts and bad fire seasons.

The governors of Arizona, California, New Mexico, Oregon and Washington state agreed that they would develop a regional target to lower greenhouse gases and create a program aimed at helping businesses reach the still-undecided goals.

<http://www.newsmax.com/archives/articles/2007/2/26/131611.shtml?s=us>

Feinstein unveils new climate change bills

2/24/2007

Sen. Dianne Feinstein swept into the University of California, Berkeley, preaching the gospel of global warming Friday, calling for "bold action" to stem greenhouse gas emissions and saying America must become a global leader if humans are to have any hope of keeping the planet from cooking.

Feinstein, D-Calif., unveiled a wide-ranging package of bills aimed to do just that. One would limit emissions from power plants, another would increase fuel economy standards. Several are based on laws California already has in place.

http://www.dailydemocrat.com/news/ci_5297891

Senator's new views on climate surprise foes

2/24/2007

Sen. Ted Stevens loves to argue. When he has a big debate on the Senate floor, he dresses for battle by wearing an Incredible Hulk necktie.

For years, the Alaska Republican has argued with environmentalists. They fought him when he tried to allow oil drilling in the Arctic National Wildlife Refuge, and they rolled their eyes when he raised doubts that global warming was caused by humans.

So they were shocked last month when the oil-state senator introduced a bill that would require cars to be more fuel efficient, a move he said would reduce greenhouse gases. It was a dramatic turnaround on the order of Richard Nixon visiting China.

http://www.sptimes.com/2007/02/24/Worldandnation/Senator_s_new_views_.shtml

Federal Renewable Energy Standard Gains Momentum

2/23/2007

Although lawmakers are still debating proposals for placing a cap on greenhouse gas emissions, Congress is likely to pass a bill this year mandating greater use of renewable power for electricity, such as wind, solar and geothermal power.

Support is strong on both sides of the aisle for creating a federal renewable portfolio standard. In the Senate, Jeff Bingaman, D-N.M. and chairman of the Senate Energy and Natural Resources Committee, is working on a bill to require 15% of the nation's power to come from renewable energy sources by 2020.

Despite Senate support, RPS proposals have traditionally died in the House. However, with Democrats in the majority, RPS legislation has a better chance of succeeding. Bipartisan legislation to create a federal RPS has already been introduced that would require electric utilities to get 20% of their retail electricity from renewable sources such as wind and solar power by 2020.

<http://www.farmfutures.com/ME2/dirmod.asp?sid=CD26BEDECA4A4946A1283CC7786AEB5A&nm=News&type=news&mod=News&mid=9A02E3B96F2A415ABC72CB5F516B4C10&tier=3&nid=5DC2917584C04861B1F7A9A067071D2A>

BUSINESS

Kyocera's Award-Winning Solar Grove(TM) Carports to be Marketed by ENVISION Solar, LLC

3/1/2007

Kyocera Solar, Inc. announced today a strategic alliance with ENVISION Solar, LLC, a San Diego-based new business venture formed to develop and commercialize carport structures with integrated photovoltaic arrays (a.k.a. "solar carports") for U.S. and international customers.

<http://www.renewableenergyaccess.com/rea/partner/story?id=47602>

NREL and PrimeStar Solar Sign \$870,000 Cooperative Research and Development Agreement

2/28/2007

The National Renewable Energy Laboratory (NREL) and PrimeStar Solar, Inc. announced today that they have signed an \$870,000 cooperative research and development agreement to transition NREL's leading cadmium telluride (CdTe) photovoltaic (PV) technology to commercial module production. This technology has been used to produce the world record cadmium telluride photovoltaic cell efficiency of 16.5% by NREL's Professor Xuanzhi Wu and his colleagues.

<http://www.prnewswire.com/cgi-bin/stories.pl?ACCT=104&STORY=/www/story/02-28-2007/0004536530&EDATE=>

Applied Materials Increases Renewable Energy Purchase

2/28/2007

Applied Materials says it will purchase 8,220,000 kilowatt-hours of renewable energy annually from wind and solar generation sources in California in lieu of energy from nonrenewable sources. The annual amount represents approximately 12 percent of the energy used in the company's Santa Clara facilities and will reduce the company's greenhouse gas emissions in Silicon Valley by more than five percent.

<http://www.environmentalleader.com/2007/02/28/applied-materials-increases-renewable-energy-purchase/>

Akeena Solar Hosts Interactive Solar Power Seminar for Wineries

2/27/2007

Akeena Solar, Inc. (OTCBB:AKNS), a leading designer and installer of solar power systems, is sponsoring an interactive seminar for wineries in Napa Valley. The wine industry, as are other businesses, is increasingly embracing sustainable practices that reduce energy costs while preserving our environment. Increasing energy costs, technology advances and the recent availability of rebate and tax incentives for solar energy installations are among the reasons that are driving California wineries to install solar energy systems.

Wineries are also realizing significant savings with solar power. For example, Akeena Solar recently completed an installation for Peju Winery. The winery estimates savings over the 30-year life span of the system at approximately two million dollars. There will also be an interactive Q and A session.

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20070227006375&newsLang=en

New Leaf Paper Manufactures with 100% Renewable Energy

2/26/2007

All of New Leaf Paper inventory items are now being manufactured with renewable energy, making it the first paper company in the U.S. to do so, the company reports.

New Leaf Paper inventory products being manufactured with 100 percent wind energy include Reincarnation Matte, Primavera Gloss, Sakura 100 Silk, Everest, New Leaf Imagination 100, New Leaf EcoMatte and New Leaf Frontier 100. New Leaf Opaque 100 is manufactured with both wind energy credits and biogas energy generated from a local landfill.

<http://www.environmentalleader.com/2007/02/26/new-leaf-paper-manufactures-with-100-renewable-energy/>

Sony wins Sustainable Energy Europe Award

2/26/2007

Launched in 2005, the European Commission's Sustainable Energy Europe Campaign aims at raising public awareness and promoting sustainable energy across Europe. The campaign will contribute to the achievement of EU energy policy targets in the fields of renewable energy sources, energy efficiency, clean transport and alternative fuels.

"The competition for the Sustainable Energy Europe Awards is an integral part of the Sustainable Energy Europe Campaign," says Andris Piebalgs, European Commissioner for Energy. "The Awards are aimed at highlighting the successes of the most outstanding projects and rewarding the Sustainable Energy Partners most worthy of recognition and praise."

In an award ceremony held at the Residence Palace in Brussels on 1st February 2007, the European Commission awarded Sony for its voluntary commitment to energy efficiency. Sony was nominated for its excellent results in maximising the energy efficiency of its products, especially of its BRAVIA LCD TV models. The standby power consumption of all Sony BRAVIA TVs is below one watt, while currently 30 of them achieve a standby consumption of only 0.3 watts, well below the market average.

http://www.evertiq.com/newsx/read_news.aspx?newsid=6796&cat=4

China-based ET Solar to supply Spanish OPDE with 20 MW solar modules

2/26/2007

China-based module manufacturer, ET Solar has announced a cooperation agreement under which it will sell 20 megawatt of photovoltaic modules in 2007 to Spanish project developer, OPDE, which will also become the sole agent of ET Solar in the Spanish market, according to *Solarbuzz*.

http://www.digitimes.com/bits_chips/a20070226VL201.html

Enterprise Rent-A-Car Founder Gives \$25 Million to Create New Institute for Renewable Fuels at Danforth Center

2/26/2007

The Donald Danforth Plant Science Center today announced that Jack and Susan Taylor have given a \$25 million gift to create the Enterprise Rent-A-Car Institute for Renewable Fuels. The Institute is named for the company founded by Jack Taylor in 1957 and still owned by the Taylor family.

The Enterprise Rent-A-Car Institute will expand the scientific expertise of the Danforth Center to speed up development of plant-based renewable biofuels. These fuels will decrease the level of greenhouse gases in the atmosphere and reduce the current dependency on finite fossil fuels in future years.

<http://www.prnewswire.com/cgi-bin/stories.pl?ACCT=104&STORY=/www/story/02-26-2007/0004534560&EDATE=>

Solar Night Industries Announces Expansion into "Modern Wind Energy Solutions"

2/26/2007

Solar Night Industries (OTC: SLND.PK) announced the introduction of the Skystream 3.7 Wind Turbine to its growing line of Modern Energy Solutions. The Skystream 3.7, manufactured by Southwest Windpower of Flagstaff, Arizona, uses award winning technology to help homeowners, businesses, and farmers take control of skyrocketing utility costs with clean, affordable, renewable energy.

<http://www.renewableenergyaccess.com/rea/partner/story?id=47555>

CLIMATE CHANGE

Canada announces tens of millions in funding for climate change research

3/1/2007

Canada announced \$150 million Canadian (US\$128 million; €96.79 million) in funding on Thursday for climate change research in the Arctic.

The announcement is part of world study that includes 50,000 scientists from 63 nations who launched a study in Paris on Thursday called the International Polar Year. The project will investigate how global warming is affecting the Earth's poles and what that means for all those living in between.

<http://www.ihf.com/articles/ap/2007/03/01/america/NA-GEN-Canada-World-Polar-Year.php>

Chainsaw massacre bad for climate change

2/28/2007

Chainsaw massacre bad for climate change

MAF figures showing record high rates of deforestation are a climate change disaster, says National's Climate Change spokesman Nick Smith.

"This chainsaw massacre indicates the worst phase of deforestation since World War II.

"It shows the Government's climate change policies are failing.

<http://www.scoop.co.nz/stories/PA0702/S00527.htm>

Mayor unveils climate change plan

2/27/2007

London Mayor Ken Livingstone has called on Londoners and businesses to unite in the fight against global warming.

Unveiling his Climate Change Action Plan, the mayor appealed to people to stop wasting energy. Londoners will be offered cut-price loft and cavity wall insulation and could cut £300 a year from fuel bills by making homes more energy-efficient.

He also urged companies to invest in green technology to help slash carbon emissions by 60% within 20 years.

By 2025 he wants 25% of London's electricity supply to be from local combined heat and power systems.

<http://news.bbc.co.uk/1/hi/england/london/6399639.stm>

Science Panel Outlines Roadmap for Reducing Risks from Climate Change

2/27/2007

The United Nations Foundation (UN Foundation) and Sigma Xi, the Scientific Research Society, released today "Confronting Climate Change: Avoiding the Unmanageable and Managing the Unavoidable," the final report of the Scientific Expert Group on Climate Change and Sustainable Development. The report, prepared as input for the upcoming meeting of the UN's Commission on Sustainable Development (CSD), outlines a roadmap for preventing unmanageable climate changes and adapting to the degree of change that can no longer be avoided.

Two years in the making, the report was written by a panel of eminent scientists from around the world. The panel was co-chaired by Dr. Peter Raven, Director of the Missouri Botanical Garden, and Dr. Rosina Bierbaum, Dean of the University of Michigan's School of Natural Resources and the Environment. The expert team was invited by the UN's Department of Economic and Social Affairs, Secretariat to the CSD, to make recommendations on key mitigation and adaptation needs. This year's 15th Session of the CSD is reviewing national and international efforts on energy and climate change.

http://www.earthtimes.org/articles/show/news_press_release,66665.shtml

New rules protect animals hurt by climate change

2/25/2007

A group of edible, but endangered, animals will soon be federally protected under new regulations announced by the National Commission for Protected Natural Areas (CONANP).

The new rules affect species that CONANP says face possible extinction due to the wide-ranging effects of climate change.

Among the newly protected animals are spider and howler monkeys that are often used in exotic dishes in the state of Veracruz and in the country's interior.

<http://www.eluniversal.com.mx/miami/23539.html>

Gore climate change Oscar entry has Cuba's vote

2/25/2007

Former U.S. Vice President Al Gore doesn't know if his climate change documentary will win an Oscar on Sunday night -- but he has Cuba's vote.

Sunday's Union of Young Communist's newspaper reported acting Cuban President Raul Castro "recognized the effort of the former vice president to denounce" global warming during a two-hour meeting with youth leaders on Friday.

Cuba's official and only television media showed Gore's documentary "An Inconvenient Truth" on prime time this month and an update by Gore, giving the one-time presidential contender more positive publicity than any other U.S. leader in decades.

http://today.reuters.com/news/articlenews.aspx?type=winterOlympics&storyID=2007-02-25T155311Z_01_N25231324_RTRUKOC_0_US-OSCARS-CUBA-GORE.xml

SOLAR ENERGY

Nanotechnology and the Future of Renewable Energy

2/26/2007

Nanotechnology operates at such a fundamental level that there is very little of a technological nature that it will not impact. Thus its effects on energy generation, transmission, storage and consumption are numerous and diverse. Some will be incremental and some quite possibly revolutionary.

<http://www.renewableenergyaccess.com/rea/news/reinsider/story?id=47553>

NUCLEAR ENERGY

Leak of radioactive water reported at Czech nuclear power plant

3/1/2007

The water leaked early Tuesday at the Temelin plant's first unit, which is currently shut down for fuel replacement, plant spokesman Milan Nebesar said.

"The water went to a special tank through a special...system and none of it leaked to the environment," Nebesar said.

He said an open valve caused the leak.

The plant's second unit was running at full capacity.

Nebesar said the plant's management informed Czech and Austrian authorities about the leak.

Austrian officials expressed surprise and anger about the delay in being informed of the mishap, which occurred while Chancellor Alfred Gusenbauer was on an official visit to Prague.

<http://www.oilweek.com/news.asp?ID=7947>

Nuclear Power Plant Protest

2/23/2007

A proposal to bring nuclear power to Fresno got a hostile reception Thursday night. The Fresno Nuclear Energy Group is hoping to build support for a power plant, by showing how environmentally safe, they say, it would be.

The purpose of the session at the Warnors Theatre was to open the discussion about building a nuclear power plant in Fresno. Improbable as it sounds, the meeting brought supporters of the idea...and plenty of vocal opponents.

Police and security hustled a few protestors out of the 90 minute presentation by nuclear power advocate Patrick Moore. Hecklers continually scoffed at Moore's claims about the safety of nuclear power. Moore, who bills himself as a co-founder of the environmental group Greenpeace believes Fresno could use a nuclear power plant.

<http://abclocal.go.com/kfsn/story?section=local&id=5063233>

BIOFUELS

Biofuels supply in Spain and US exceeds demand

3/1/2007

While the supply of biofuels in both Spain and the US are growing, the amount being used in these countries are minimal. The Spanish Industry Ministry considers making biofuels blending compulsory and the US also needs to work toward boosting demand for bioethanol and other biofuels.

http://www.greenprices.com/eu/newsletter/GPBE_41_070301/Biofuels.asp

ENERGY ALTERNATIVES

New Hydrogen Fuel System Promises A New Generation Of Renewable Energy

2/26/2007

Thanks to research done by a University of Nevada, Reno professor in the area of hydrogen energy generation, soaring power bills could become a thing of the past. And, finding a power source for your car that costs as little as \$1 per gallon could also soon become a welcome reality. Manoranjan Misra, professor of materials science and engineering, recently received a \$3 million research grant from the U.S. Department of Energy to continue his groundbreaking work in various forms of renewable energy. Misra's current project focuses on harnessing photoactive material from the sun to generate hydrogen. Hydrogen is one of the cleanest forms of energy, and studies have shown that it is 33 percent more efficient than liquid fuels. Northern Nevada, with its uncommonly sunny weather -- with more than 300 sunny days per year -- could become the perfect hub to generate hydrogen energy, according to Misra.

<http://www.sciencedaily.com/releases/2007/02/070222180945.htm>

Inverter Connects Hybrid Solar And Wind Systems To The Grid

2/22/2007

Sustainable Energy will offer a new inverter to deliver power from small wind turbines to electricity grids at the same high efficiencies available to solar PV applications. Using proprietary technology, the new inverter will also have the capability to provide backup power during grid outages, and to connect hybrid systems incorporating both solar and wind energy.

The first product application will be for a residential scale wind turbine developed by Japan's Zephyr Corporation. The Airdolphin Mark-Zero is an ultra-quiet light-weight wind turbine which employs a number of innovative features unique to the industry that deliver lower operating costs and higher efficiencies than other small turbines and large megawatt scale turbines.

<http://www.carbonfree.co.uk/cf/news/wk08-07-0004.htm>

OTHER LINKS AND REPORTS

Renewable Energy Country Attractiveness Indices

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

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.wbcasd.org/DocRoot/0d6TANhJQ0ZhGXGHDcJ3/powering_sustainable_future.pdf

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

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