U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy

EERE Program News

The business, programs and policies of moving new energy products into the marketplace

EERE Program News , web version

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December 2009

Editor: Jack Jenkins
Associate Editor: John Horst

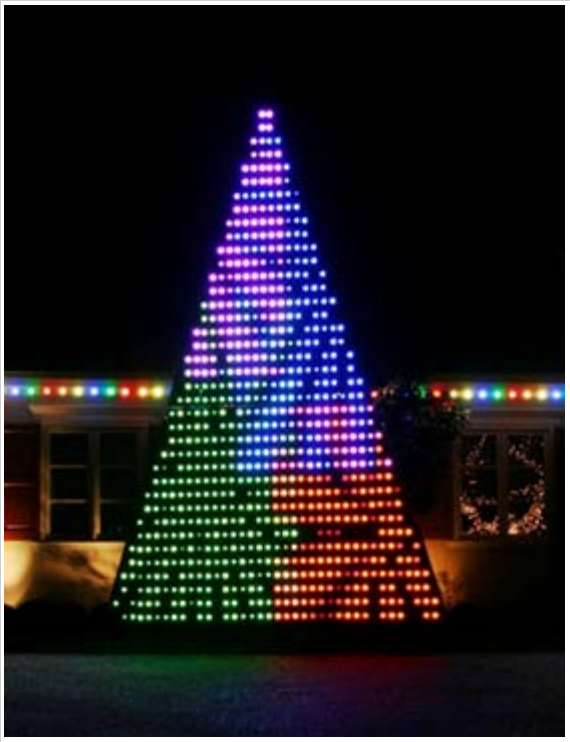
News highlights breakthrough stories ranging from deep sea wind turbine towers that float, British researchers taking a practical approach to growing cellulosic ethanol feedstocks, to irrigation farmers using big batteries to store renewable energy.

Features concentrates on the human aspects of the Recovery Act — how increased funding for energy efficiency, renewable energy and home weatherization is making a difference for families, individuals and local communities.

In **holiday season news**, more people are switching to light-emitting diode (LED) lighting as they decorate homes and businesses this year.

LED lights cost more than traditional incandescent lights, but use 80-to-90-percent less energy, last at least twice as long and produce far less heat. LEDs are also made of plastic, making them much less prone to breakage.

Experts estimate that the payback period for LED holiday lighting is one to three years, depending upon initial price paid and how long they are turned on each 24-hour period. Also, some utilities now offer incentives ranging from $2 to $4 per set if you switch to LEDs.



Mark Callegari of Kansas City, Kan. dazzles neighbors with his ultimate holiday tree - an 800 lb. LED display featuring pictures, video and sparkling effects all synchronized to holiday music. The display is powered by a single 15 amp circuit. By comparison, if incandescent bulbs were used, the display would require thirty, 15-amp circuits (Video)

Photo courtesy of: The Ultimate Tree

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Irrigation farmers install big batteries to store wind energy

The Modesto, California Irrigation District (MID) will use batteries to store wind energy for pumping water to crops. The DOE-funded project will allow the district to store up to 25 megawatts of wind power for use during times of peak demand, rather than just when the wind blows.

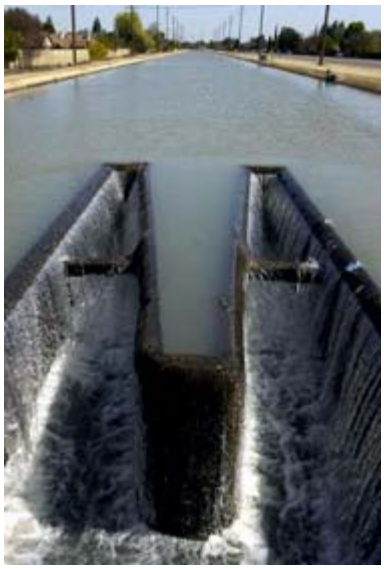
According to the Modesto Bee, the batteries will be installed and ready to use during the next growing season. Melissa Williams, MID spokesperson, said, "Our role is to test this technology in real-world conditions. With cost-effective

technology for storing industrial-size amounts of energy, we could more widely use renewable power."

Twenty-five megawatts represents only a small portion of total peak electricity demand — which can top 600 megawatts on a summer day — needed for local crop production, but it will displace at least some of the power now being generated from natural gas.

Tom Stepien of Primus Power Corp., manufacturers of the batteries, said, "This will allow MID to run their equipment in a cost-effective, uniform and less polluting manner."

The battery storage test is part of DOE's $620 million smart grid demonstration and energy storage projects. Primus and MID will also contribute funding.



To help meet summertime pumping requirements, the Modesto, California Irrigation District is hoping that a new battery storage system will allow increased use of wind and solar generated electricity.

Photo courtesy of: Modesto Bee

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Deep sea wind power crosses the Atlantic

Q: What do Norway and the state of Maine have in common?

A: Deep water coastlines and a newly-forming partnership to develop deep water, off-shore wind power generation.

The world's first full-scale floating deep sea wind turbine is towed to a site off the coast of Norway earlier this year.

Photo courtesy of: Øyvind Hagen / StatoilHydro

Offshore wind power development to date has taken place in shallow waters where the supporting towers for turbines could be solidly planted in the sea bottom, just like on land.

Deep water wind power generation, by comparison, calls for the wind turbines to be mounted on floating platforms, similar to deep water oil and gas rigs. This is an entirely new field of exploration that carries a new set of engineering, design and construction challenges.

StatoilHydro, a Norwegian company, began tackling those challenges head-on early last summer. They built and towed the world's first full-scale floating wind turbine to a point more than six miles offshore and then anchored it in 700 feet of water. Fully floating, the 2.3 megawatt generator sits atop a tower bolted to a ballasted steel

cylinder that extends more than 300 feet below the surface. The floating structure is moored to the bottom with cables. (Video)

Deepwater turbines are meant to solve some of the problems of shallow-water turbines built near the shore. Floating turbines could be located over the horizon, out of sight of land and far from shipping lanes, aircraft flight paths, fishing grounds or known migratory paths of birds or marine animals. Also, offshore winds tend to be more powerful and consistent than winds blowing over land.

A Maine-based team of deep water wind power generation advocates visited the StatoilHydro turbine in September. As their boat rode through choppy seas and approached the floating platform, they could see the blades turning steadily 200 feet above the sea.

"It's just amazing to see – see how still it is," said Habib Dagher, director of the Advanced Structures and Composites Center at the University of Maine. "Having seen the structure reinforces even further that we've made the right decision. We have a wonderful opportunity to leapfrog forward with this sort of development in Maine."

In response to the state of Maine's interest in deep water, offshore wind power, DOE recently awarded $8 million to the University of Maine to design and deploy two 10 kilowatt and one 100 kilowatt floating offshore turbine prototypes. (University of Maine Video)

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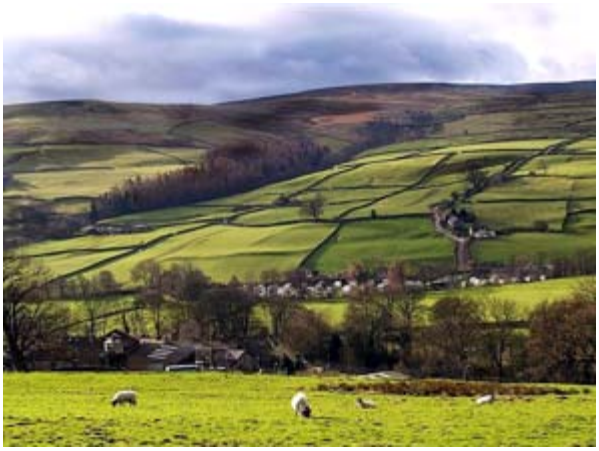
British bet on traditional pasture crops for biofuel

As non-agriculturalists search for exotic crops to use as biofuel feedstocks, British crop researchers and farmers explore established pasture crops traditionally grown on rough lands. These crops don't compete with cereal crops or need to be grown on highest quality land. They can be economically grown, harvested and transported using existing farm machinery.



The Yorkshire hills of England, may one day be growing pasture grasses used as biofuel feedstocks.

Photo courtesy of: North Yorkshire Tourist Information Office

Researchers involved in the three-year Grassohol project at Aberystwyth University's Institute of Biological, Environmental and Rural Sciences (IBERS) experiment with sugar-rich varieties of perennial ryegrass and pasture crops such as white clover. They also explore how different soils, fertilizers and seed mixtures affect these crops, as related to biofuel production.

Traditional pasture crops such as ryegrass are environmentally friendly and cheaper to produce than most other potential biofuel feedstocks. Early results indicate that up to 4,500 liters of ethanol per hectare of ryegrass can be produced every year.

IBERS project director Dr. Joe Gallagher, speaking to the British Broadcasting Corporation, said, "Farmers in the UK are experts on growing pasture crops. Future biorefinery use of these crops will make an important contribution to both farm income and the overall UK economy, whilst also maintaining the traditional look of the

countryside."

To British farmers and agricultural researchers alike, it sounds like a winning combination.

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Texas smashes wind power generation record

Where barbed wire and cattle ranches once stretched across Texas, wind turbines now stand as sentinals to the future.

Photo courtesy of: Stockpreacher.com

On Oct. 28, Texas wind turbines cranked out close to 25 percent of the state's power consumption.

The state's wind turbines briefly hit a record peak power output of 6,223 megawatts.

This brings the long-term goal of supplying 20 percent of the nation's electricity via wind power that much closer to reality. Ultimately, Texas wind power generation accomplishments should lead to less expensive power for consumers, as wind turbines replace more expensive electricity generation sources.

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U.S. industries join DOE to improve energy efficiency

Thirty-two U.S. companies have pledged to reduce the energy intensity of their industrial activities by 25 percent. They spotlighted the effort by joining DOE's new Save Energy Now LEADER program.

DOE expects that the LEADER companies will become pace setters in improving U.S. industrial energy efficiency. In return, LEADER program participants will receive access to select DOE resources as well as national recognition for their energy management achievements.

For over two decades, U.S. industry has worked with DOE's Industrial Technologies Program to make good strides in improving energy efficiency. The LEADER program will help companies take next steps to best practices.

In targeting industry, DOE's Save Energy Now program has already assisted over 2,000 U.S. industrial plants to receive energy assessments in the past three years. Those assessments identified opportunities for $1.3 billion in identified cost savings, 119 trillion Btu of natural gas savings, and 11.2 million metric tons of CO2 savings.

It is expected that additional companies will join the initial 30 LEADER companies already

Based on recommendations from their Save Energy Now assessment, Shaw Industries in Dalton, Ga., installed a waste water heat exchanger on their Kuster dye line to capture excess heat, saving a significant amount of money and energy.

Photo courtesy of: Shaw Industries

announced. The industrial sector still accounts for nearly 30 percent of U.S. energy consumption and 27 percent of the country's carbon emissions.

Initial LEADER program companies include:

- 3M (St. Paul, Minn.)
- AT&T (Dallas, Texas)
- BPM, Inc. (Peshtigo, Wis.)
- Bridgestone (McMinnville, Tenn.)
- Briggs & Stratton (Wauwatosa, Wis.)
- Cummins, Inc. (Columbus, Ind.)
- Danfoss (Baltimore, Md.)
- Didion Milling (Johnson Creek, Wis.)
- The Dow Chemical Company (Midland, Mich.)
- Flambeau River Papers (Park Falls, Wis.)
- Honeywell (Morristown, N.J.)
- Ingersoll Rand/Trane (Piscataway, N.J.)
- Intel (Santa Clara, Calif.)
- JR Simplot (Boise, Idaho)
- Manitowoc Grey Iron Foundry (Manitowoc, Wis.)
- Mohawk Industries (Dalton, Ga.)
- Neenah Foundry (Neenah, Wis.)
- Nissan North America (Smyrna, Tenn.)
- Osram Sylvania (Danvers, Mass.)
- Owens Corning (Toledo, Ohio)
- PPG Industries (Pittsburgh, Pa.)
- Quad/Graphics, Inc. (Sussex, Wis.)
- Schneider Electric (Palatine, Ill.)
- Serious Materials (Sunnyvale, Calif.)
- Shaw Industries (Dalton, Ga.)
- Sherwin-Williams, Richmond (Richmond, Ky.)
- Spirax Sarco, Inc. (Blythewood, S.C.)
- Thilmany Papers (Kaukauna, Wis.)
- ThyssenKrupp Waupaca (Waupaca, Wis.)
- United Technologies Corp. (Hartford, Conn.)
- Verso Paper (Memphis, Tenn.)
- Volvo Trucks, Inc. (Dublin, Va.)

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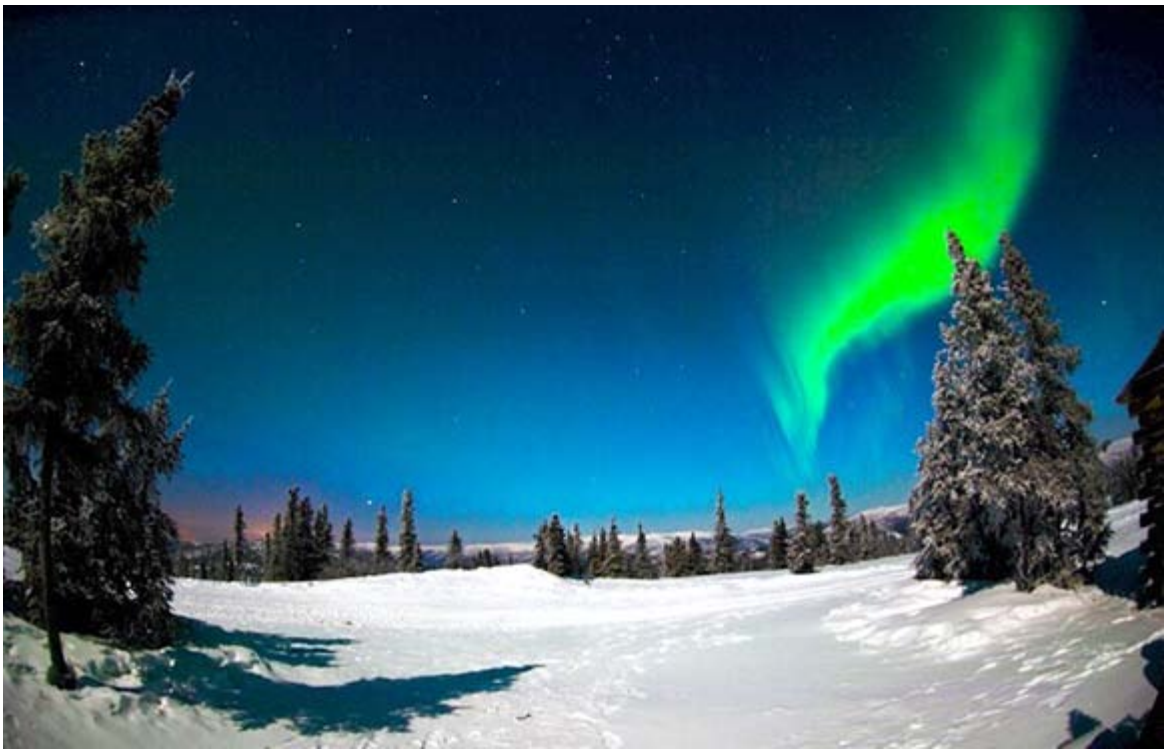
Features



From the Lower-48 to Chena Hot Springs, Alaska, where this amazing photograph displays the aurora borealis, Recovery Act funding for energy efficiency and renewable energy is stimulating positive changes in the lives of individuals and communities.

Photo courtesy of: Chena Hot Springs Resort

Energy Empowers — and opens personal opportunities

2009 presented a multitude of financial and business challenges. But many people also found new niches in which to reach personal and economic success. This was particularly true in the fields of energy efficiency and renewable energy.

A new DOE Web site, Energy Empowers, has been developed to tell some of these personal stories of accomplishment and overcoming adversity.

We've pulled a few samples to share in the section that follows; we hope you find them as inspirational as we do.

If you have a similar story to share, please contact Energy Empowers, or click the "Comments" button anywhere in this newsletter to let us know what you are thinking.

Efficient iron plant will bring Minnesota jobs

A new high efficiency iron mill being built in Minnesota is bringing new life to small communities adversley affected by the closing of nearby mining operations nine years ago.

Photo courtesy of: Steel Dynamics, Inc.

In 1957, Marlene Pospeck moved to the town of Hoyt Lakes, Minn., a small, quiet community surrounded by forests and lakes where just about everyone knows everyone else. Little did she know she'd become mayor in 1996 and have to lead the town through economic calamity. The bombshell hit in December 2000 when the local mining company went bankrupt and shut its doors.

"Just about everybody in town was laid off in January of 2001," Marlene says. "They thought they'd have some transition time. That was pretty devastating for the people."

The shutdown put more than 1,400 people out of work in the region, including 283 in her town.

"The bottom dropped out of our world here in Hoyt Lakes and across the Minnesota Iron Range," Marlene says, and she says she feared the workers would move elsewhere.

Now, however, nine years later, the town's fortune has changed once again for the better. A DOE-sponsored pilot project has proven that a highly energy-efficient iron-making process pioneered by Kobe Steel Inc., using 30 percent less energy than blast furnaces, can be viable in Hoyt Lakes. This has paved the way for a series of investments and provided new hope for the small Minnesota town. (Read full story)

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Weatherization assistance creates local jobs

The Weatherization Assistance Program (WAP) enables low-income families to permanently reduce their energy bills by making their homes more energy efficient.

During the last 32 years, WAP has provided weatherization services to more than 6.2 million low-income families. Under the Recovery Act, the program is expanding, creating local jobs across the country even as it helps additional low income residents enjoy greater home comfort, safety and energy efficiency.

Here are some stories that put a personal face on what's happening:

Faces of the Recovery Act: Weatherizing America
As Recovery Act money arrives to expand home weatherization programs across the country, Zachary Stewart of Phoenix, Ariz. and others have found exciting opportunities not only to start working again, but also to find a calling. (Video)

Single Oklahoma mom loves work as energy educator
Wendy Van Zandbergen lost her job as a home healthcare manager when the job market went sour. The single mom felt anxious about how she would support her family, and she sold her house, exhausted her savings and emptied her retirement plan to stay afloat. She is now an energy education trainer, a job that suits her personality and puts her skills to good use. (Video)

Boys of Coshocton, part one
Sam Fortune Jr. lost his job during Christmas week 2007. Hope finally came more than a year later when an

Wendy Van Zanbergen has become an enthusiastic energy efficiency advocate and trainer in Durant, Okla.

Photo courtesy of: Kathy Gooding

ad in the local paper announced a job for heating technicians through a local home weatherization program. (Video)

Boys of Coshocton, part two
After being laid off, Brad Stephens faced the fight of his life to find employment and support his family. Now, through hard work and a commitment to succeed, Brad is living his life again, weatherizing homes. (Video)

Training for success in Las Cruces
The Community Action Agency of Southern New Mexico (CAASNM), Las Cruces, N.M., weatherizes low income homes. In this story, David Sierra, a 12-year veteran at CAASNM, teaches Larry Martinez a trade that will provide a pathway to a long-term career as well as immediate income to support his family. (Video)

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Hoteliers strike gold with geothermal Alaskan resort

Bernie Karl and his wife, Connie, moved to Alaska and tried mining gold before eventually landing their dream job of running Chena Hot Springs Resort, just outside of Fairbanks.

In 1998, Bernie and Connie put enough of a grubstake together to buy the Chena Hot Springs Resort. But they found the 22-building spa very expensive to heat – astonishingly expensive – because it ran on diesel generators that cost roughly $1,000 a day to fuel. As you can imagine, that added up in a hurry. (Video)


Connie and Bernie Karl own and operate a geothermal powered resort near Fairbanks, Alaska.

Photo courtesy of: Chena Hot

But now the Chena Hot Springs is home to two geothermal power plants that generate enough power to meet nearly all the resort's electricity needs. The power plants, known as the Chena Chillers, were developed in collaboration with United Technologies Corporation and are the lowest operating temperature geothermal power plants in the world, operating with 165 F water.

The energy savings has been remarkable. Bernie estimates he saves anywhere from $300,000 to $400,000 in electricity costs alone each year. The project has received funding through DOE's Geothermal Technologies Program

and from the Recovery Act. (Read full story)

Spring Resort

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Iowa farmer hopes corn cobs will bring extra cash

Todd Mathisen of Cylinder, Iowa, hopes a new cellulosic ethanol project near his farm will turn his corn cobs into fuel, opening a new revenue stream for local farmers.

Photo courtesy of: Jana Mathisen

Todd Mathisen's family has been working the rich soil in Northwest Iowa for the last 130 years, but that doesn't mean Todd is stuck in his ways. In fact, he's already supplying feedstocks for a biofuel that may have a promising future: cellulosic ethanol.

When Todd harvested corn last month, he captured the corn cobs, catching them in a cart towed behind his grain combine.

He then delivered the cobs — which are usually left to decompose in the field — with the grain he hauled to the ethanol plant about 10 miles down the road from his farm. (Read full story)

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Idaho schools save energy while educating students

This Idaho elementary school is an energy-efficient building that educators use to raise awareness about energy efficiency among students, parents and faculty.

Photo courtesy of: Jennifer Swindell

When Idaho officials decided to spend Recovery Act money to make their school buildings more energy efficient, it set off a chain reaction. Now, the project is creating more comfortable and safe learning environments for its students and providing them with examples of how to save energy.

The Idaho K-12 School Efficiency Project increases energy efficiency while saving precious education dollars, says schools superintendent Tom Luna. "It also provides a great opportunity for schools to incorporate lessons about energy education in the classroom," he says.

One example comes from Van Buren Elementary School, where teachers use their newly constructed school as an education tool for kindergartners through eighth graders. Each student receives 10 hours of classroom lessons annually devoted to saving energy, says Jennifer Swindell, the district's public information officer. (Read full story)

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News Releases

Dec. 14, 2009
Fact Sheet: Clean Energy Technology Announcements

Dec. 9, 2009
DOE announces tougher enforcement of appliance standards reporting requirements

Dec. 7, 2009
Secretary Chu announces $100 million for advanced research projects

Dec. 4, 2009
Secretaries Chu and Vilsack announce more than $600 million investment in advanced biorefinery projects

Dec. 2, 2009
DOE Launches Save Energy Now LEADER Program

Nov. 24, 2009
Secretary Chu announces $620 million for smart grid demonstration and energy storage

Nov. 23, 2009
DOE to invest $18 million in small business clean energy innovation projects

Nov. 23, 2009
Secretary Chu announces $45 million to support next generation of wind turbine designs

Nov. 18, 2009
Department of Energy announces more than $104 million for national laboratory facilities

Nov. 18, 2009
DOE and USDA select projects for more than $24 million in biomass research and development grants

Nov. 17, 2009
Obama administration announces nearly $40 million for energy efficiency and conservation projects in Florida and Maine

Nov. 5, 2009
Secretary Chu highlights support for clean energy and energy efficiency projects in Indian Country

Nov. 4, 2009
Hydropower upgrades to yield added generation at average costs less than 4 cents per kWh - without new dams

Nov. 3, 2009
Secretary Chu announces more than $155 million for industrial energy efficiency projects

Nov. 3, 2009
Obama Administration announces more than $38 million for energy efficiency and conservation projects in Alaska, Kansas, Utah and West Virginia

Nov. 2, 2009
DOE awards up to $5.5 million for X PRIZE to promote clean, energy efficient vehicles

Oct. 30, 2009

Secretary Chu's weatherization Op-Ed in the Huffington Post

Oct. 29, 2009
Department of Energy awards $338 million to accelerate domestic geothermal energy

Oct. 27, 2009
Secretary Chu announces $24 million loan for Tenneco Inc. for advanced vehicle technology

Oct. 27, 2009
President Obama announces $3.4 billion investment to spur transition to smart energy grid

Oct. 19, 2009
Vice President Biden unveils report focused on expanding green jobs and energy savings for middle class families

Oct. 16, 2009
2009 Solar Decathlon winners announced

Oct. 15, 2009
2010 annual fuel economy guide now available

Oct. 15, 2009
Secretary Chu announces new investments in cutting-edge wind energy research facilities

Oct. 13, 2009
DOE announces steps to strengthen enforcement of energy efficiency standards

Oct. 13, 2009
Team California wins the communications contest at DOE Solar Decathlon

Oct. 12, 2009
DOE Secretary Chu issues call to action on carbon capture and storage

Oct. 8, 2009
DOE announces $87 million in funding to support solar energy technologies

Oct. 7, 2009
DOE announces new private sector partnership to accelerate renewable energy projects

Oct. 1, 2009
DOE Solar Decathlon coming to National Mall

Oct. 1, 2009
Obama Administration delivers nearly $72 million for energy efficiency and conservation projects in 7 states and territories

Sept. 30, 2009
DOE announces testing for AeroSys, Inc. products to ensure compliance with appliance standards

Sept. 24, 2009
Obama Administration delivers more than $106 million for energy efficiency and conservation projects in 9 states

Sept. 22, 2009
Treasury, Energy surpass $1 billion milestone in Recovery Act awards for clean energy projects

Sept. 15, 2009
DOE awards up to $14.6 million to support development of advanced water power

technologies

Sept. 14, 2009
DOE to fund up to $454 million for retrofit ramp-ups in energy efficiency

Sept. 14, 2009
DOE delivers more than $354 million for energy efficiency and conservation projects in 22 states

Sept. 14, 2009
Obama Administration delivers more than $60 million for weatherization programs in six states and territories

Sept. 14, 2009
Obama Administration awards more than $18.6 million for Oklahoma's state energy program

Sept. 14, 2009
DOE recognizes green power network leaders

Sept. 10, 2009
DOE recognizes midwest industrial efficiency leaders

Sept. 4, 2009
Vice President Biden announces finalized $535 million loan guarantee for Solyndra

Sept. 2, 2009
"Cash for Clunkers" replaces 700,000 vehicles with more efficient models

Sept. 1, 2009
Treasury, Energy announce $500 million in awards for clean energy projects

Sept. 1, 2009
Secretary Chu announces completion of critical energy conservation appliance standards

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Reader Comments

November — Honolulu turns to the Sea for Air Conditioning
"[Related areas to explore:] Research into the use of desalinated sea water to irrigate crops and forests and to provide drinking water. This is relevant from the perspective of global warming, the potential for depletion of inland water supplies, increasing global temperatures, and the advance of desert area as a result of global warming and increased farming and development. "
— **E. M. G.**

Editor's note: Large-scale irrigation of field crops and/or forests with desalinated sea water is unlikely to be practical. The water and energy requirements are simply too astronomical.

To feed our nation, U.S. farmers grow crops on about 442 million acres, 13 percent of which is irrigated. This requires an almost unbelievable quantity of water (and energy.) Here's a quick snapshot of what happens:

One center pivot irrigation system typically irrigates 128 acres.

To do this, it pumps approximately 1.3 million gallons of water every 24 hours. It does this nonstop for approximately five months. That adds up to 195 million gallons of water consumed to produce one crop on a very small area of land — yet that same quantity of water would supply over 800,000 U.S. households for the same period of time.

Worldwide, only 17 percent of the world's cropland is irrigated — but those irrigated crops produce 40 percent of our food. If we ever significantly impair our ability to irrigate crops from natural fresh water sources, desalinization could yield but a relative drop in the bucket to help save us.

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Speeches, Op-Eds and Testimony

Sept. 30, 2009
Richard Kidd, program manager, FEMP Office of Energy Efficiency and Renewable Energy, before the House Veterans Affairs Committee
Subject: Energy Efficiency at the Department of Veterans Affairs

Aug. 6, 2009
David Sandalow, assistant secretary, Office of Policy and International Affairs, before the Senate Environment and Public Works Committee
Subject: Climate Change and Ensuring that America Leads the Clean Energy Transformation

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Events

If you have an event scheduled of regional or national interest to the energy efficiency and renewable energy communities, please contact us with pertinent information and a Web link and we will include it in EERE Program News. — Jack Jenkins or Julie Behrens

Federal Energy Management Program (FEMP) — holds technical workshops around the nation throughout the year, plus webinars; check this link for continuously updated information on these events.

Industrial Technologies Program — holds specialized workshops and on-line webinars year-around. Check this link for a continuously updated schedule.

Austin Climate Protection Conference & Expo — Jan. 15-16, Austin, Texas
Event integrates elements of the Austin Climate Protection Plan such as transportation, green building, water conservation, waste management and energy efficiency.

International Builders Show — Jan. 19-22, Las Vegas, Nev.
This show will center on how builders can retool their businesses and educate themselves to be ready when the housing market turns around.

Wind Interconnection Workshop — Jan. 22, Golden, Colo.
The National Rural Electric Cooperative Association and the Utility Wind Integration Group are offering a series of workshops on wind energy this winter and spring; the first one of which is listed here. Check the organizations' Web sites for others near you.

ASHRAE Winter Conference — Jan. 23-27, Orlando, Fla.
Conference will seek to advance the state of the art in indoor environmental control by focusing the technical program on the theme “Humidity and Sustainable Indoor Environment”; will include tracks on energy conservation and alternative energy sources, sustainability, humidity and load calculations.

Better Buildings: Better Business Conference — March 3-5, Wisconsin Dells, Wis.
Learn how to build homes that deliver the energy savings customers want, about renewable energy technologies that reduce energy costs and how energy efficiency and green building practices keep your business competitive.

NESEA's BuildingEnergy 2010 — March 9-11, Boston, Mass.
The Northeast Sustainable Energy Association's annual conference will bring together professionals who help shape the practice of sustainability. Nearly 200 presenters will define the leading edge of smart building, energy efficiency and renewable energy.

2010 IEEE PES Transmission and Distribution Conference — April 19-22, New Orleans, La.
The conference and exposition will bring together the world's leading power system equipment manufacturers and technical professionals to display their products, explore new technology and enhance existing technologies.

ACI Home Performance Conference 2010 — April 19-23, Austin, Texas
Affordable Comfort Inc.'s 2010 conference will present a variety of information and training sessions related to home energy efficiency, safety and comfort.

National Green Builders Products Expo — April 27-28, Las Vegas, Nev.
The National Green Builders Products Expo is a trade-to-trade only event.

National Hydrogen Association Conference & Expo — May 3-6, Long Beach, Calif.
The NHA Hydrogen Conference and Expo is the largest hydrogen conference in the United States and the longest running annual hydrogen conference in the world.

National Green Building Conference — May 16-18, Raleigh, N.C.
Sponsored by the National Association of Home Builders, conference will feature a variety of speakers and companies involved in green building technologies and sustainable living.

SOLAR 2010 — May 17-18, Las Vegas, Nev.
One of America’s leading conferences on emerging trends, technology and opportunities that shape the new energy economy.

13th Annual Nanotech 2010 — June 21-25, Anaheim, Calif.
The world’s largest nanotechnology event, NSTI Nanotech 2010, delivers application-focused research from the top international academic, government and private industry labs.

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