

GreenPower

News

An update from Western's Renewable Resources Program covering green power, reports and studies and funding.



Welcome to the *Green Power News Update*. This is a summary of the stories that ran during **November, 2015**. New stories are added throughout the month to make sure you always know what is happening in our fast-changing industry. Check back often to see what's new!

Individuals or agencies sending press releases quoted here are entirely responsible for the accuracy of their information.

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Green Power

BioenergizeME Office Hours Webinar: Integrating Bioenergy into the 9th–12th Grade Classroom

The U.S. Department of Energy's Bioenergy Technologies Office (BETO) is hosting a webinar entitled “Integrating Bioenergy into the 9th–12th Grade Classroom” on Dec. 10, 2015, from 4:00 p.m. to 4:45 p.m. Eastern Standard Time.

This webinar is designed to help 9th–12th-grade educators and administrators incorporate bioenergy-related concepts into their standards-based curriculum. BioenergizeMe Infographic Challenge 2016 advisors will also find this webinar beneficial to support their teams. This webinar is part of the BioenergizeME Office Hours webinar series developed by BETO. Register Now!

Source: DOE Office of Energy Efficiency and Renewable Energy, 11/19/15

Bring Your Economy Into the 21st Century: Tackle CO2 with Cap-and-Invest

As they consider how to comply with EPA's [Clean Power Plan](#), many states are reaching a growing consensus that mass-based programs with regional trading—“[cap-and-trade](#)” —could drive compliance costs down. A related mass-based approach—one with which states may be less familiar—is known as “[cap-and-invest](#).” It uses the revenues from allowance sales to achieve further emissions reductions by investing in state clean energy programs. The most prominent example of this is the [Regional Greenhouse Gas Initiative](#), an electric sector CO2 emissions reduction program that has been in operation since 2009.

Source: The Rapport, 11/18/15

Federal agencies team up to bring solar to more Americans

The Energy Department's National Community Solar Partnership aims to expand solar access to all Americans, with specific emphasis serving low and moderate income households, in collaboration with the Department of Housing and Urban Development, the Environmental Protection Agency, the Department of Agriculture, and key representatives from solar companies, non-profit organizations, state and community leaders, and financial institutions. The Partnership will work on topics relevant to the overarching mission including: greater utilization of existing federal and state resources, sharing of best practices at the state level, development of new financing arrangements and business models, new approaches to customer acquisition and community building, and multifamily deployment considerations. The partnership's creation was announced in a July 7, 2015 White House fact sheet.

Source: DOE Office of Energy Efficiency and Renewable Energy, 11/17/15

Green Power Partnership Program Update

Issue 36, November 23, 2015

In this edition of the Green Power Partnership Program Update:

- Partner Spotlight – Redhook Brewery
- Welcome New Partners!
- In the News—Recent Press on the Green Power Partnership
- Rocky Mountain Institute's "Renewable Energy Market is Evolving"
- Green-e® Verification Report Recently Released
- New Green-e® Federal Renewable Energy Certification Option

- Update on Green Power Equivalency Calculator
- Past Issues

Source: EPA Green Power Partnership, 11/23/15

The Green Power Network for October 2015

This update summarizes recent green power marketing activity, including news and information on competitive green power marketing, utility green pricing programs, renewable energy certificates, green power purchasing, and related market activity. Additional information on green power markets and products, as well as links to the companies mentioned below, can be found on the U.S. Department of Energy's Green Power Network [website](#).

New Publications

- NREL Report: Status and Trends in the U.S. Voluntary Green Power Market (2014 Data)

Announcement

- Clean Power Plan: Interactions and Implications for Renewable Energy Markets 

News

- EPA Releases Updated Top Green Power Partners
- FuelCell Energy Power to Alameda County Jail with Biogas Energy
- OU to Purchase Half of Its Electricity from Renewable Sources
- EPA and CRS Announce 2015 Green Power Leadership Awards
- CEC to Bring More Community Solar Benefits to Broader Market
- Solar Comes Standard in Austin Community
- Utah's Rio Tinto Stadium Goes Solar
- SEIA Unveils Solar Business Code

Renewable Energy RFPs

- Oneida Tribe of Indians of Wisconsin

Source: DOE Green Power Network, 11/5/15

Green Power Partnership Program Update

Issue 35, October 29, 2015

In this edition of the Green Power Partnership Program Update:

- EPA Releases Updated Top Partner Lists
- EPA Launches 2015-2016 College & University Challenge
- 2015 Green Power Leadership Award Winners Recognized
- Renewable Energy Markets Conference Highlights
- New EPA Fact Sheet: Renewable Energy in the Clean Power Plan
- Upcoming Webinar "Clean Power Plan: Interactions and Implications for Renewable Energy Markets" from the Center for Resource Solutions, Clean Energy States Alliance, and Regulatory Assistance Project
- GPP Webinar "Measuring Emissions from Purchased Electricity: A Primer on GHG Protocol's New Scope 2 Guidance" Now Online
- Partner Spotlight: The University of Illinois Nears Completion of 20-Acre Solar Farm

- On Twitter? Use #EPAGreenPower in Your Tweets
- EPA's RE-Powering America's Land Initiative New Decision Tree Tool
- Renewable Energy Markets Association Elects New Officers
- GPP Video on Renewable Energy Credits: "RECs: Making Green Power Possible"
- Three New NREL Resources
- Past Issues

Source: EPA Green Power Partnership, 10/29/15

“Time keeps on Slippin’, Slippin’, Slippin’ into the Future”

As I sat down to write this column for the last SITN newsletter, these lyrics (Steve Miller Band 1976) popped into my head. For those of you who remember them, you might find them as appropriate as I do.

What a difference five years makes. Since 2010, the Solar Instructor Training Network (SITN) has become the benchmark for building a highly qualified, well-trained solar workforce. Thanks to the vision and support of the U.S. Department of Energy’s SunShot Initiative, this cohesive network of nine Regional Training Providers (RTPs), IREC and DOE championed vitally relevant issues in workforce development and solar training and education.

Source: IREC Solar Instructor Training Network, 10/30/15

Visit U.S. DOE EERE [Green Power Network](#) for more information.

Reports and Studies

Renewable Energy Economic Potential

The report *Estimating Renewable Energy Economic Potential in the United States: Methodology and Initial Results* (pdf) describes a geospatial analysis method to estimate the economic potential of several renewable resources available for electricity generation in the United States. Economic potential, one measure of renewable generation potential, is defined in this report as the subset of the available resource technical potential where the cost required to generate the electricity (which determines the minimum revenue requirements for development of the resource) is below the revenue available in terms of displaced energy and displaced capacity.

Source: National Renewable Energy Laboratory, 11/19/15

New report suggests system flexibility key to integrating renewables

Advancing System Flexibility for High Penetration Renewable Integration, a study from the National Renewable Energy Laboratory, describes several potential sources of flexibility that can help maintain system balance with high levels of variable generation. The analysis of flexibility needs falls under the general task of planning for future power system needs, which is itself a broad and complex topic.

Source: National Renewable Energy Laboratory, 10/1/15

Team of Appraisers Across Six States Find Home Buyers Will Pay Premium for Solar Homes

Results Confirm Earlier Berkeley Lab Large-Scale Study

Photovoltaics added value to homes in six markets, according to a new report titled Appraising into the Sun: Six-State Solar Home Paired-Sales Analysis, led by a researcher from the U.S. Department of Energy's Lawrence Berkeley National Laboratory (Berkeley Lab) and a home appraisal expert. Researchers engaged a team of seven appraisers from across the six states to determine the value that solar photovoltaic (PV) systems added to single-

family homes using the industry-standard paired-sales valuation technique, which compares recent sales of comparable homes to estimate the premium buyers would pay for PV.

Source: Berkeley Lab Electricity Markets and Policy Group, 11/12/15

Fact Sheet: Jobs in Renewable Energy and Energy Efficiency

This fact sheet examines employment in the renewable energy and energy efficiency sectors in the United States and around the world. The job figures cited below are sourced from the U.S. Department of Energy (DOE), as well as international organizations, national non-profits, think tanks and national trade associations. Due to the lack of a single body conducting job surveys, EESI has collected information from a number of sources which employ different research methodologies and different job definitions in their work. This makes it somewhat problematic to compare job estimates directly. In addition, EESI must occasionally refer to reports that are somewhat dated, due to a lack of more recently released information. This fact sheet represents a best effort to survey the status of renewable energy and energy efficiency jobs from the data that is publicly available.

Source: Environmental and Energy Study Institute, 11/6/15

America's Electric Grid: Growing Cleaner, Cheaper and Stronger

Electricity is illuminating, but its generation, transmission, and distribution have long been opaque. Cleaner, Cheaper, Stronger: Industrial Efficiency in the Changing Utility Landscape reports on how the once static utility industry is becoming a dynamic and transformative opportunity for the nation's economic, environmental, and energy future.

An array of technological, competitive, and market forces are changing how the U.S. generates power and the ways that Americans interact with the electric grid. A century-old centralized system is yielding to advanced, distributed-energy generation capabilities—in which power is produced at or near the place where it is consumed—that allow the industry to respond to new market opportunities and evolving consumer desires.

Source: The Pew Charitable Trusts, 10/27/15

HydroNEXT Fact Sheet

Through its HydroNEXT initiative, the U.S. Department of Energy (DOE) invests in the development of innovative technologies that dramatically change the way we think about hydropower by lowering cost, improving performance, and promoting environmental stewardship of hydropower development. HydroNEXT is pursuing a comprehensive technology research, development, demonstration, and deployment strategy across three resource classes to increase the contribution of clean, renewable hydropower to the nation's energy mix: existing water infrastructure, undeveloped streams, and pumped-storage hydropower.

Source: DOE Office of Energy Efficiency and Renewable Energy, 2/28/15

CRS Publishes Guides to Renewable Energy in the EPA Clean Power Plan

Parts 1 and 2 of "Renewable Energy in the EPA Clean Power Plan" explain emission rate credits and how the U.S. EPA's Clean Power Plan may effect existing renewable energy markets

Center for Resource Solutions recently released two reports on the U.S. EPA's Clean Power Plan, which directs states to implement greenhouse gas emissions limits for existing electricity generators.

Source: Center for Resource Solutions, 11/2/15

Find more [publications and webinars](#).

Funding

Current Federal Funding Opportunities

Funding is available in the following categories for research and project development:

- Academic Programs
- Agriculture
- Air
- Alaska
- Alternative & Renewable Energy
- Biofuels
- Chemical & Waste
- Department of Defense Energy
- Electricity & Transmission
- Energy Efficiency
- Environment
- Multi-disciplinary Research
- Native Affairs
- Natural Gas & Oil
- Nuclear Energy
- Transportation & Infrastructure
- Water
- Wildlife, Conservation, & Fisheries

Visit the [VanNess Feldman Knowledge Center](#) for more energy news and information.

Source: VanNess Feldman LLP, 11/17/15

DOE offers funding and financing

The Energy Department supports a number of grant, loan and financing programs. Learn more about these programs and how they can help you - whether you are a startup energy business looking to launch a pilot project, a company with proven technology that needs help reaching commercial scale, or a state, local or tribal government looking for funding resources for energy projects.

Featured:

- [Funding & Financing for Energy Businesses](#)
Do you own or represent an energy business? Learn about funding and financing resources from the Energy Department and other U.S. government agencies.
- [Funding & Financing for Energy Projects](#)
Are you a state, local or tribal government, or private sector partner, looking for resources or financing to support an energy project? Learn about funding and financing opportunities from the Energy Department.
- [Additional Funding & Financing Resources](#)
Want to know more about funding and financing for energy projects and businesses? Check out general resources at the Energy Department and other parts of the federal government.

Source: Department of Energy, 11/23/15

Find more [funding sources](#).