

Federal Issues Update and Solicitations

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Dear Shelly,

A certain amount of government support has helped make Colorado a leader in clean-tech. This is why CCIA is working with other regional organizations to educate our legislators about the importance of our industry's growth and job creation.

A little over a week ago CCIA joined the leadership of the national Clean Energy Network (CEN) and the New England Clean Energy Council to lobby key Members of Congress for support of clean energy technology. We met personally with Senators John Kerry (D-MA) and Ron Wyden (D-OR) among other bipartisan Members of Congress. Sen. Kerry said "this is the most gridlock I've seen in Congress in the last 40 years."

The good news is that some clean technology-related legislation is still moving forward (see below). The bad news is that the "debt ceiling debacle" has consumed most of the oxygen out of Washington, D.C. and has set the stage for much more gridlock for some time to come.

Energy and environmental spending is playing a secondary role in the deficit negotiations. These areas may take a portion of the spending cuts if there aren't major entitlement spending adjustments long-term. At the same time, Republicans are trying to reduce spending without increasing taxes, which conflicts with Democratic calls for eliminating various oil and gas industry tax breaks.

For all of these reasons, it makes working together in Colorado and the clean tech industry nationally more important.

Legislative Action on Energy Topics

Even though the debt ceiling and deficit issues look grim, there are several pieces of good news to report:

- The establishment of a new independent entity within DOE, the Clean Energy Deployment Administration (CEDA), passed the Senate Energy Committee two weeks ago. CEDA would make capital investments for clean energy more transparent.

Government funding through the administration would allow for more energy projects that would otherwise be too risky for private investors.

- The DOE was originally scheduled to receive a 12% budget increase for 2012 compared to the fiscal year 2010, but that amount will likely be scaled back based on the budget situation.
- Also last week, the House of Representatives voted on its final version of the 2012 Energy & Water Development Appropriations Bill, which funds "ARPA-E" (Advanced Research Projects Agency for Energy - the Department of Energy's flagship energy innovation program). The good news is that the final version actually increased the budget from \$100 to \$180 million with a last-minute amendment -- which passed by just one vote! It is hoped that the Senate will keep that budget amount.
- The critical minerals bill (HR 2011, the "National Strategic and Critical Minerals Policy Act of 2011") passed out of the full committee last week by unanimous consent of the committee. This bill is very important as many of the parts in solar panels and wind turbines rely on components from critical minerals.
- The four bills we reported on last month pertaining to enhanced renewable energy across federal lands passed through the Natural Resources Committee last Wednesday as part of an 8-hour long mark-up session. There was some good discussion on the bills and a few technical amendments were adopted in committee. The bills are now floor ready and Congress may get to them before August recess.

Actions In Other States



California: A Senate Committee is evaluating legislation that would include algae in the definition of biomass. It would be classified under a potential renewable energy program to provide financial assistance.

Connecticut: Passed a bill to create a single entity from merging their environment and energy agencies.

Hawaii: A state legislative conference committee is considering a bill that will require no less than 15% biofuel by state vehicles.

Iowa: An appropriations bill is trying to fund a biodiesel and ethanol tax credit.

Missouri: The state senate is a bill that would make biofuel production facilities eligible to use land without a permit (if those facilities meet a certain annual production capacity and if the

property is not subject to special land use approval requirements).

New Hampshire: The governor is trying to withdraw from the Regional Greenhouse Gas Initiative (RGGI, or ReGGIe). RGGI is a regional initiative by states and provinces in the northeastern U.S. and eastern Canada regions to reduce greenhouse gas emissions. The RGGI is designing a cap and trade program for greenhouse gas emissions from power plants. but the legislature is trying to block the move.

New Jersey: A bill was introduced that would permit the sale of motor fuels that have NOT been blended with ethanol.

Rhode Island: The house passed a bill that would create a renewable energy coordinating board which would develop and recommend a strategic renewable energy implementation plan for Rhode Island.

South Dakota: A new law modifies the ethanol production incentive payment and creates the ethanol infrastructure incentive fund.

Texas: Considering a bill to create a new alternative fuel program.

Solicitations - 32 Funding Notices



1) Clean Fuel Buses and Facilities

The U.S. Department of Transportation requests proposals for the Clean Fuels/Bus and Bus Facilities Program. This program will support: 1) The purchase or leasing of clean fuel buses, including buses that employ a lightweight composite structure, 2) Construction or leasing of clean fuel bus facilities or electrical recharging facilities and related equipment, and 3) Projects relating to clean fuel, biodiesel, hybrid electric, or zero emissions technology buses that exhibit equivalent or superior emissions reductions to existing clean fuel or hybrid electric technologies. \$51.5 million expected to be available.

Responses due 8/23/11. For more info, contact Vanessa Williams at Vanessa.williams@dot.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=101474>. Refer to Sol# FTA-2011-019-CLNF. (Grants.gov 6/24/11)

2) Transit, GHG, and Energy Reduction

The U.S. Department of Transportation requests proposals for Transit Investments for Greenhouse Gas and Energy Reduction (TIGGER). This program supports: 1) Capital investments that will assist in reducing the energy consumption of transit systems, and 2) Capital investments that will reduce GHG emissions in public transportation systems. \$49.9 million expected to be available, individual awards NTE \$15 million.

Responses due 8/23/11. For more info, contact Walter Kulyk at walter.kulyk@dot.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=101453>. Refer to Sol# FTA-2011-018-TIGGER. (Grants.gov 6/24/11)

3) Rooftop Solar Challenge

The U.S. Department of Energy requests proposals for the SunShot Initiative: Rooftop Solar Challenge to Induce Market Transformation. Through this initiative, DOE seeks improvements in market conditions for rooftop photovoltaics across the U.S. Areas of interest include: Permitting and Interconnection Processes; Net Metering and Interconnection Standards; Financing Options; and Planning and Zoning. \$12.5 million expected to be available, up to 25 awards anticipated. Letters of Intent are required, and are **due 7/29/11**, final proposals due 8/31/11. For more info, contact solarchallenge@go.doe.gov or go to: <https://eere-exchange.energy.gov/>. Refer to Sol# DE-FOA-0000549. (Grants.gov 6/1/11)

4) Smart Grid Panel

The U.S. Department of Commerce, National Institute of Standards and Technology (NIST), requests

proposals for the Smart Grid Panel. NIST has a primary responsibility to coordinate development of protocols and model standards to achieve interoperability of Smart Grid devices and systems. NIST implemented a three-phase approach to fulfill its responsibility: Phase 1 - To recognize a set of initial existing consensus standards and develop a roadmap to fill gaps; Phase 2 - To establish a Smart Grid Interoperability Panel to provide ongoing recommendations for new/revised standards; and Phase 3 - To establish a conformity framework that includes testing and certification. NIST requests quotes to maintain Phases 2 and 3.

Responses due 7/27/11. For more info, contact Willie Lu at willie.lu@nist.gov or go to: https://www.fbo.gov/?s=opportunity&mode=form&id=e266a6a14cf5d1407852c64cf9a47127&tab=core&_cv_iew=0. (FBO 7/10/11)

5) NOAA Climate Programs

The U.S. Department of Commerce, National Oceanic and Atmospheric Administration, requests proposals for the Climate Program Office. Areas of interest include, but are not limited to: Climate Impacts on Water Resources; Coasts and Climate Resilience; Sustainability of Marine Ecosystems; Changes in Extremes of Weather and Climate; and Information for Mitigating Climate Change. \$15.5 million expected to be available, up to 60 awards anticipated. Letters of Intent are required, and are **due 7/26/11**, final proposals due 10/3/11. For more info, contact Diane Brown at diane.brown@noaa.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppId=103313>. Refer to Sol# NOAA-OAR-CPO-2012-2003041. (Grants.gov 7/6/11)

6) Coastal Climate Adaptation

The U.S. Department of Commerce, National Oceanic and Atmospheric Administration, requests proposals for the Sea Grant Community Climate Adaptation Initiative 2011. This initiative will fund climate adaptation efforts as part of an overall plan to enhance climate adaptation in coastal communities. \$1 million expected to be available, individual awards NTE \$100K. **Responses due 11/22/11.** For more info, contact oar.hq.sg.competitions@noaa.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppId=103673>. Refer to Sol# NOAA-OAR-SG-2011-2002930. (Grants.gov 7/7/11)

7) Water Sustainability and Climate

The National Science Foundation requests proposals for Water Sustainability and Climate. This RFP will support research to understand and predict the interactions between the water system and climate change, land use, the built environment, and ecosystem function and services through place-based research and integrative models. \$31 million expected to be available, up to 26 awards anticipated. **Responses due 10/19/11.** For more info, contact Enriqueta Barrera at ebarrera@nsf.gov or go to: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf11551. Refer to Sol# 11-551. (Grants.gov 6/17/11)

8) WaterSMART: Southern Rockies

The U.S. Department of Interior, Bureau of Reclamation, requests proposals for WaterSMART Applied Science Grants for the Southern Rockies Landscape Conservation Cooperative. This will include analyzing the impacts of climate change and other landscape scale stressors on natural or cultural resources that affect or are affected by water resources management, and developing tools to assess and adapt to those impacts within the boundaries of the Southern Rockies LCC. 10 awards anticipated, individual awards NTE \$200K. **Responses due 8/4/11.** For more info, contact Michelle Maher at mmaher@usbr.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppId=99613>. Refer to Sol# R11SF81306. (Grants.gov 6/15/11)

9) WaterSMART: Desert Landscapes

The U.S. Department of Interior, Bureau of Reclamation, requests proposals for WaterSMART Applied Science Grants for the Desert Landscape Conservation Cooperative. This initiative will support the analysis of impacts of climate change and other landscape scale stressors on natural or cultural resources that affect or are affected by water resources management, and developing tools to assess and adapt to those impacts within the boundaries of the Desert LCC. \$1 million expected to be available, up to 10 awards anticipated. **Responses due 8/4/11.** For more info, contact Michelle Maher at mmaher@usbr.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppId=99615>. Refer to Sol# R11SF81307. (Grants.gov 6/15/11)

10) Water Conservation - Lower Colorado

The U.S. Department of Interior, Bureau of Reclamation, requests proposals for Water Conservation Field Services Program - Phoenix Area Office. This program will support projects to assess the potential for water management improvements and identify specific ways to implement those improvements. \$200K expected to be available, up to 7 awards anticipated. **Responses due 8/8/11.** For more info, contact Linda Howell at lhowell@usbr.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppId=102994>. Refer to Sol# R11SF320002. (Grants.gov 7/1/11)

11) State Energy Program

The U.S. Department of Energy requests proposals for the State Energy Program. This program provides formula grants to State and Territorial energy offices to design and carry out renewable energy and energy efficiency priorities. \$39 million expected to be available, up to 56 awards anticipated. Due dates based on state/territorial program years. For more info, contact Sheldon Funk at sheldon.funk@netl.doe.gov or go to: <https://www.fedconnect.net/fedconnect/?doc=DE-FOA-0000507&agency=DOE>. Refer to Sol# DE-FOA-0000507. (Grants.gov 6/23/11)

12) HOPE VI

The U.S. Department of Housing and Urban Development requests proposals for the HOPE VI Main Street Program. This program provide grants to small communities to assist in the rejuvenation of an historic or traditional central business district or "Main Street" area by replacing unused commercial space in buildings with affordable housing units. HUD encourages activities that actively promote sustainability through enhancing energy efficient measures. \$500K expected to be available, 1 award anticipated. **Responses due 8/22/11**. For more info, contact Lawrence Gnessin at lawrence.gnessin@hud.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppId=100915>. Refer to Sol# FR-5500-N-18. (Grants.gov 6/22/11)

13) Rural Housing Preservation Grants

The U.S. Department of Agriculture requests proposals for Housing Preservation Grants. HPG provides grants to organizations to assist very low and low-income homeowners in repairing and rehabilitating homes in rural areas. In addition, the HPG program assists rental property owners and cooperative housing complexes in repair and rehabilitation if they agree to make such units available to low and very low-income persons. \$9.8 million expected to be available, up to 160 awards anticipated. **Responses due 8/22/11**. For more info, contact Bonnie Edwards-Jackson at bonnie.edwards@wdc.usda.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppId=103613>. Refer to Sol# USDA-RD-HCFP-HPG-2011. (Grants.gov 7/7/11)

14) Rural Business Opportunity Grant

The U.S. Department of Agriculture requests proposals for Rural Business Opportunity Grants. This program supports sustainable economic development in rural communities with exceptional needs through provision of training and technical assistance for business development, entrepreneurs, and economic development officials and to assist with economic development planning. \$2.5 million expected to be available, up to 27 awards anticipated. **Responses due 8/1/11**. For more info, including state contacts, go to: <http://www07.grants.gov/search/search.do?&mode=VIEW&oppId=102914>. Refer to Sol# RDBCP-11-04-RBOG. (Grants.gov 7/1/11)

15) Industrial Assessment Centers

The U.S. Department of Energy requests proposals for Industrial Assessment Centers. Each IAC will provide extensive training for undergraduate and graduate engineering students in industrial processes, energy assessment procedures, and energy management principles. \$2 million expected to be available, up to 30 awards anticipated. Letters of Intent are requested, but are not required, and are due 7/19/11, **final proposals due 8/2/11**. For more info, go to: <https://www.fedconnect.net/fedconnect/?doc=DE-FOA-0000490&agency=DOE>. Refer to Sol# DE-FOA-0000490. (Grants.gov 6/14/11)

16) Innovative Manufacturing

The U.S. Department of Energy requests proposals for the Innovative Manufacturing Initiative. This RFP will support manufacturing processes and materials to advance the clean energy economy. \$120 million expected to be available, up to 50 awards anticipated. Letters of Intent are required, and are due 8/1/11, **final proposals due 8/25/11**. For more info, contact IMIFOA@go.doe.gov or go to: <https://eere-exchange.energy.gov/>. Refer to Sol# DE-FOA-0000560. (Grants.gov 6/24/11)

17) Centers for Chemical Innovation

The National Science Foundation requests proposals for Centers for Chemical Innovation. For the FY 2012 Phase I competition, only projects addressing sustainable chemistry will be considered. Areas of interest include, but are not limited to: Developing clean, safe, and economical alternatives to traditional chemical products and practices; Exploring alternatives to petroleum as a source of feedstock chemicals, including biorenewables; Exploring earth-abundant, inexpensive and benign alternatives to rare, expensive and toxic chemicals; and Developing efficient recognition/sequestration and recycling of key elements essential for sustainability, for example phosphorus and rare earth elements. \$15 million expected to be available, up to 7 awards anticipated. **Responses due 10/25/11**. For more info, contact Katharine Covert at kcovert@nsf.gov or go to: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf11552. Refer to Sol# 11-552. (Grants.gov 6/22/11)

18) Biosensing

The National Science Foundation requests proposals for Biosensing. This program supports innovative, transformative, and insightful investigations of fundamental problems with broad long term impact and applications that require novel use of bio-inspired engineering principles and sophisticated devices to meet

the engineering and technology needs of the nation. \$7.6 million expected to be available, up to 78 awards anticipated. **Responses due 9/15/11.** For more info, contact Alex Simonian at asimonia@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503353. Refer to Sol# PD-12-7909. (Grants.gov 6/8/11)

19) Biotechnology, Biochemical, and Biomass Engineering

The National Science Foundation requests proposals for Biotechnology, Biochemical, and Biomass Engineering. This program addresses fundamental problems involved in the processing and manufacturing of products of economic importance by effectively utilizing renewable resources of biological origin and bioinformatics originating from genomic and proteomic information. \$8.2 million expected to be available, up to 34 awards anticipated. **Responses due 9/15/11.** For more info, contact Theresa Good at tgood@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501024. Refer to Sol# PD-12-1491. (Grants.gov 6/8/11)

20) Environmental Engineering

The National Science Foundation requests proposals for Environmental Engineering. The goal of this program is to encourage transformative research which applies scientific principles to minimize solid, liquid, and gaseous discharges into land, inland and coastal waters, and air that result from human activity, and to evaluate adverse impacts of these discharges on human health and environmental quality. \$9.4 million expected to be available, up to 44 awards anticipated. **Responses due 2/17/12.** For more info, contact Paul Bishop at pbishop@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501029. Refer to Sol# PD-12-1440. (Grants.gov 6/8/11)

21) Thermal Transport

The National Science Foundation requests proposals for Thermal Transport Processes. This program supports engineering research aimed at gaining a basic understanding of the microscopic and macroscopic levels of thermal transport phenomena. \$10.1 million expected to be available, up to 32 awards anticipated. **Responses due 2/17/12.** For more info, contact Sumanta Acharya at sacharya@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13367. Refer to Sol# PD-12-1406. (Grants.gov 6/8/11)

22) Energy for Sustainability

The National Science Foundation requests proposals for Energy for Sustainability. This program supports fundamental research and education in energy production, conversion, and storage and is focused on energy sources that are environmentally friendly and renewable. Sources of sustainable energy include: Sunlight, Wind/Wave, Biomass, and Geothermal. \$9.2 million expected to be available, up to 42 awards anticipated. **Responses due 2/17/12.** For more info, contact Gregory Rorrer at gorrer@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501026. Refer to Sol# PD-12-7644. (Grants.gov 6/8/11)

23) Environmental Sustainability

The National Science Foundation requests proposals for Environmental Sustainability. This program supports engineering research with the goal of promoting sustainable engineered systems that support human well-being and that are also compatible with sustaining natural systems. \$5.4 million expected to be available, up to 45 awards anticipated. **Responses due 2/17/12.** For more info, contact Bruce Hamilton at bhamilto@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501027. Refer to Sol# PD-12-7643. (Grants.gov 6/8/11)

24) Methane to Markets Evaluation

The U.S. Department of State, Bureau of Oceans and International Environmental and Scientific Affairs (OES) and the Office of Global Change (EGC) requests proposals for an Outcome Evaluation of the Methane to Markets (M2M) Partnership Relative to the Office of Global Change Funding, FY2006-FY2010. Recognizing the role of methane in global warming and its potential use as a clean energy source, 14 countries came together in 2004 to launch the M2M Partnership. The M2M program is a component of U.S. strategy to address climate change and promote cost-effective, near-term methane recovery internationally through a partnership between developed and developing countries and with strong participation from private sector, development banks, and other governmental and non-government organizations. The primary purpose of the subject evaluation study is to document and evaluate programmatic activities and outcomes relative to the contributions of OES/EGC funding to the M2M Partnership for the fiscal years 2006-2010. \$250K expected to be available, 1 award anticipated. **Responses due 8/4/11.** For more info, contact Nancy Ahson at AhsonNL@state.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppId=104453>. Refer to Sol# OES-OCC-11-004. (Grants.gov 7/11/11)

25) Advanced Transportation Technologies - New York

The New York State Energy Research and Development Authority requests proposals for Advanced Transportation Technologies. This initiative will support the development, demonstration, and commercialization of innovative transportation products, systems and services. \$3.5 million expected to be available. **Responses due 9/8/11.** For more info, contact Joe Wagner at jrw@nyserda.org or go to:

<http://www.nyserda.org/funding/2271pon.asp>. Refer to PON# 2271.

26) Deep Residential Energy Retrofits - New York

The New York State Energy Research and Development Authority requests proposals for Building Envelope Strategies for Advancing Deep Energy Retrofits. This RFP will support projects to develop, investigate and implement design strategies that will provide deep energy retrofit solutions to existing residential building envelopes. \$1.5 million expected to be available, individual awards NTE \$300K. For more info, contact Greg Pedrick at gap@nyserda.org or go to: <http://www.nyserda.org/funding/2254pon.asp>. Refer to PON# 2254.

27) PV and Wind System - Vermont

The General Services Administration seeks quotes for the Design-Build of a Solar Photovoltaic and Wind Turbine System at the Burlington Federal Office Building in Burlington, VT. **Responses due 8/26/11**. For more info, contact Kathleen Brock at kathleen.brock@gsa.gov or go to: <https://www.fbo.gov/?s=opportunity&mode=form&id=2dce464df3c2847723aee2e5c898e033&tab=core&view=0>. Refer to Sol# 1PME-11-0045. (FBO 7/8/11)

28) Clean Energy Program - Columbia

The U.S. Agency for International Development requests proposals for the Columbia Clean Energy Program. This RFP will support increased access to renewable energy sources and energy efficient practices in Colombia through a combination of project development support, technical assistance, and enabling environment reforms. **Responses due 8/2/11**. For more info, contact Manuel Omar Trigo at otrigo@usaid.gov at <https://www.fbo.gov/?s=opportunity&mode=form&id=68b398592b52fd70e2b65bf34938e2b6&tab=core&view=0>. Refer to Sol# 514-11-000003. (FBO 6/23/11)

29) PV System - Curacao

The U.S. Army announces its intent to request proposals for construction of a grid tied 100kW photovoltaic solar system in Cooperative Security Location - Curacao. The Army anticipated posting the RFP on or about 6/29/11, however it did not appear to have been posted as of 7/10/11. For more info, contact Hubert Cacho at Hubert.cacho@us.army.mil or go to: <https://www.fbo.gov/?s=opportunity&mode=form&id=ecc6a0764531d6e1e45bb71c4abe30bc&tab=core&view=0>. Refer to Sol# W912CL11R0046. (FBO 6/11/11)

30) Grassroots Environmental Campaigns

Patagonia corporate headquarters and retail stores request proposals for Grassroots Environmental Campaigns. This program supports small, grassroots activist organizations that have provocative direct action agendas, and are working on multi-pronged campaigns to preserve and protect the environment. Grant range generally \$3K - \$8K each. **Corporate grant applications due 8/31/11**, retail store applications accepted year round. For more info, go to: <http://www.patagonia.com/us/patagonia.go?assetid=2942>. (Foundation Center RFP Bulletin 6/24/11)

31) Grassroots Environmental Fund - New England

The New England Grassroots Environment Fund requests proposals from New England organizations for the Small Grants Program. The Fund supports long-term civic engagement in local initiatives that create and maintain healthy, just, safe, and environmentally sustainable communities. Grant range generally \$500 to \$2.5K. **Responses due 9/15/11**. For more info, go to: http://grassrootsfund.org/grants/small_grants/. (Foundation Center RFP Bulletin 6/24/11)

32) Energy Efficient Affordable Housing - Maine to Florida

The TD Charitable Foundation, TD Bank, requests proposals for the "Building for the Future" competition, in support of affordable housing initiatives. This competition focuses on areas including but not limited to: Energy efficiency, including weatherization initiatives, HVAC improvements, or implementation of alternative or renewable energy sources. 25 awards of \$100K each are anticipated. **Responses due 9/2/11**. For more info, go to: http://www.tdbank.com/community/housing_grant_competition.html. (Foundation Center RFP Bulletin 7/8/11)

Source: Laurie Brown and WSU Extension.

Drew Bolin
Colorado Cleantech Industry Association