From: Cusack, Kate
To: FederalAffairsUpdate
Subject: Dept. of Energy Recovery Info
Date: Tuesday, March 03, 2009 12:04:32 PM

Hello everyone –

Some additional information has been put out related to the Department of Energy's federal recovery dollars and how such funds will be spent/awarded.

Below is the link for the Department of Energy's recovery website.

http://www.energy.gov/recovery/

And pasted below is information from the website on the initiatives for DOE:

TRANSFORM THE WAY AMERICANS USE ENERGY

1. Energy efficient homes and businesses: Funding provided through the states for homeowners and businesses to take immediate steps toward energy efficiency – reducing heating and air conditioning bills and creating jobs. *$5 billion in American Recovery and Reinvestment Act*

Buildings use approximately 40 percent of energy consumed in the United States today, so increasing the efficiency of buildings is one of the most effective ways to lower energy consumption, save money, and reduce carbon emissions. The recovery package includes funds to weatherize more than a million homes, beginning with a home energy audit to identify which measures – from adding insulation to sealing leaky windows, roofs, and doorways to upgrading furnaces and appliances – will have the greatest impact. In addition to creating construction jobs in cities and towns across the country, weatherization saves homeowners money and makes their homes more livable. For businesses, the recovery funding will support construction of combined heat and power generation – creating jobs, while reducing energy use and costs.

In addition to funding these ready-to-go energy efficiency projects, the Department of Energy, in partnership with states, industry and manufacturers, will also put scientists, engineers and computer programmers to work developing better ways to build ever more efficient buildings and appliances.

Read more about DOE's energy efficiency and renewable energy programs.
Read more about home energy efficiency.
Read more about industrial energy efficiency.
Learn more about the DOE's research in building technologies.

2. Greening federal buildings: Provide funding to improve the efficiency of federal government offices and buildings, reducing energy bills and creating jobs. *$4.5 billion in American Recovery and Reinvestment Act*

The U.S. government is the largest energy consumer in the world, using approximately two percent of all energy consumed in the U.S. today. As the Department of Energy invests in construction projects to make its own facilities more energy efficient, it will also provide guidance to the rest of the federal government on how to reduce energy costs and the environmental impact of federal buildings through the Federal Energy Management Program. The projects will spur job creation and reduce the government's energy bill by 25 percent, while significantly lowering carbon emissions.

Read more about efforts to green federal buildings.

BUILD A CLEAN, EFFICIENT ENERGY SUPPLY

3. Renewable energy projects: Accelerate the construction of solar, wind, geothermal and other renewable energy generation facilities through a combination of loans and grants, creating jobs immediately and providing the United States with a clean energy supply for the future. *$2.5 billion in American Recovery and Reinvestment Act*

The United States has tremendous potential to harness its natural renewable resources to increase the supply of clean electricity - from the windy plains of the Midwest, to the sunny deserts of the Southwest, to the subterranean geothermal resources of the West. This set of initiatives will provide money to spur industry investment in shovel-ready projects that have been delayed due to the economic crisis, fund new projects to pilot emerging technologies, and support the scientists and engineers who will design the next generation of renewable energy technologies.

Learn more about the Department of Energy's solar energy program.

Learn more about the Department of Energy's wind and hydropower program.
Learn more about the Department of Energy's geothermal energy program.
Learn more about the Department of Energy's loan guarantees to support renewable energy.

4. Smart Grid technology and transmission infrastructure: Build the transmission lines and grid technology infrastructure needed for a better, smarter grid to transport electricity – from the places renewable energy can be produced to the places it will be used. *$4.5 billion in American Recovery and Reinvestment Act*

Investments in improving the grid – with more than 3,000 miles of new or modernized transmission lines – will create jobs immediately and lower the number of power outages, increase reliability, and allow new renewable energy to come online. Deploying "Smart Meters" in homes and buildings across the country will make the energy grid cleaner, more efficient and more reliable. And the Department of Energy will invest in design and demonstration projects to improve on existing grid technologies. The Department will also invest in job training for the next generation of transmission workers to learn the skills needed to build and maintain a more efficient, smarter grid.

Learn more about the Smart Grid.
Learn more about transmission projects in the northwest United States.
Learn more about transmission projects in the western and Midwest United States.

5. Clean fossil energy technology: Develop innovative technologies for clean coal, petroleum coke and other plants of the future, allowing our nation to safely use our abundant coal and fossil energy resources. *$3.4 billion in American Recovery and Reinvestment Act*

Coal is a cheap and abundant energy resource for the United States, currently providing more than 50 percent of the nation's electricity supply. This set of initiatives will focus on research, development and deployment of technologies to use coal more cleanly and efficiently. Investments will go both toward finding and testing new ways to produce energy from coal, such as gasification, and improving techniques to clean or capture and store the emissions from coal-fired power plants.

Learn more about the Department of Energy's clean coal initiatives.

6. Next generation biofuels: Provide grants to accelerate the research and deployment of cellulosic biofuels technologies to provide a clean alternative to imported oil. *$800 million in American Recovery and Reinvestment Act*

Working with industry, the Department of Energy will put scientists and researchers to work finding new ways to convert plant materials -- such as corn stalks and husks, switchgrass, and woodchips -- into fuel that can power our cars and trucks. Research investments will focus on innovations along the value chain – from addressing feedstock sustainability, to methods to break them down into basic chemical compounds and convert them into fuels. By co-investing with industry to build new cellulosic biofuel refineries to test these new technologies, we will take important steps toward transitioning the American vehicle fleet to ever cleaner alternatives.

Learn more about the Department of Energy's biofuels programs.

REINVIGORATE THE ECONOMY WITH SCIENCE AND TECHNOLOGY

7. Science and basic research in the energy technologies of the future: Investments in building and renovating laboratories and research facilities to create jobs immediately and enable the research that will sustain American industry and provide new energy and climate solutions. *$1.6 billion in American Recovery and Reinvestment Act*

Rebuilding facilities for basic science is vital for maintaining America's role as the world leader in innovation. These construction projects will allow ongoing research into high energy and nuclear physics, basic chemical and materials science, nanotechnology, biological and environmental science, advanced computing, and other cutting-edge fields. The key will be ensuring the discoveries made in Department of Energy labs find their way to the assembly line as more efficient production processes and into stores as new products offered by American companies.

Learn more about the scientific research supported by the Department of Energy.

8. Battery research and advanced vehicle technologies: Loans and grants to support the development of advanced vehicle batteries and battery systems to reinvigorate the U.S. auto industry, reduce the U.S. dependence on foreign oil, and transform the way automobiles are powered. *$2 billion in American Recovery and Reinvestment Act*

Battery research is critical for achieving a clean, secure, and prosperous energy future. Electric vehicles are currently a niche market, largely because today's batteries can't safely store enough energy to power cars over long distances. At the same time, electric utilities are only able to use a certain level of renewable energy sources like solar and wind because they lack a large-scale energy storage solution. The invention of new battery technologies has the potential not only to reshape the U.S. auto industry but to enable the wide-spread use of renewable energy to power America.

Learn more about advanced vehicle technologies at the Department of Energy.

Learn more about the Department of Energy's loan program for vehicle technologies.
Learn more about battery and energy storage programs at the Department of Energy.

9. Advanced Research Project Agency-Energy (ARPA-E): Jump start advanced energy technologies by funding high-risk, high-payoff research in collaboration with industry. *$400 million in American Recovery and Reinvestment Act*

Modeled on the Defense Advanced Research Projects Agency (DARPA), which was founded at the beginning of the Cold War and developed the technologies that resulted in modern computer operating systems and the Internet, ARPA-E will support transformational energy technology research projects with the goal of enhancing the nation's economic and energy security. By fostering an atmosphere of innovation, ARPA-E will provide a place for research into cutting edge technologies that are still too risky for private industry, creating the opportunity for revolutionary breakthroughs in energy technology.

Learn more about DARPA, the model for ARPA-E.

SAFELY MANAGE AND CONTAIN NUCLEAR MATERIALS

10. Cleanup of nuclear legacy: Redouble the ongoing efforts to clean up radioactive waste from Cold War nuclear project sites, creating jobs and reclaiming lands for communities across the country. *$6 billion in American Recovery and Reinvestment Act*

Spanning the country from South Carolina to Washington, the Department of Energy works to secure the nuclear materials and radioactive waste left from the construction of nuclear weapons during the Cold War. These efforts include building and operating treatment facilities, safely moving and securing the remaining waste materials, and restoring the cleaned-up land.

Learn more about the efforts to clean up the nuclear legacy.

Agency Plans and Reports

The first reports will be available on Tuesday, March 3, 2009.

Learn more about our programs

- Office of Advanced Technology Vehicles Manufacturing Loan Program
- Office of Civilian Radioactive Waste Management
- Office of Electricity Delivery and Energy Reliability
- Office of Energy Efficiency & Renewable Energy
- Office of Environmental Management
- Office of Fossil Energy
- Office of Legacy Management
- Office of Loan Guarantee Program
- Office of Nuclear Energy
- Office of Science

- FY 2009 Budget Request to Congress
- Congressional Budget Justifications
- Agency Financial Report
- Annual Performance Report
- Citizens' Report

Kate Cusack
Director of Federal Relations
Oregon State University
Mobile: 503-891-3332
Portland: 503-553-3445
Corvallis: 541-737-6320