

Business Opportunities in the ARRA Energy Provisions

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Direct and Indirect Opportunities

- **Federal Direct Opportunities – grants and loans**
 - **Renewable energy producer or development of renewable energy technologies –**
 - EERE demonstration and deployment;
 - technology loan guarantees,
 - CO2 sequestration,
 - Wood-to-energy grants,
 - biomass producers
 - **Research institutions – renewable energy centers**

Direct and Indirect Opportunities

- Advanced Manufacturing – advanced battery manufacturing including component suppliers, wind turbines**
 - **Materials**
 - **Machining**
 - **Extruding**
 - **Generators**
 - **Motors**
 - **Engineering and site design**
 - **Construction**

Direct and Indirect Opportunities

- Federal indirect
 - Transportation electrification
 - monies to states, MTAs, local governments to reduce emissions (truck idling, airport ground equipment, cargo handling)
 - LEED – \$5.5 billion to upgrade federal buildings; military installations received their own allotments
 - Insulation, windows, HVAC, lighting
 - Energy audits, recycling

ARRA Green Building Projects

- **HUD: Public Housing Capital Fund**
 - \$4 billion (\$3 billion by formula, \$1 billion by competition) for investments including leveraging private sector funding or financing for renovations and energy conservation retrofit investments.
- **HUD: HOME Investments Partnership Program**
 - \$2.25 billion of which up to 20% may be used for investments in energy efficiency and green building technology. Funds are available until Sept. 30, 2011.
- **HUD: Native American Housing Block Grants**
 - \$510 million, of which \$255 million is by formula. The amounts distributed by formula shall be used for construction, retrofits and rehabilitations including energy efficiency retrofits.
- **HUD: Assisted Housing**
 - \$250 million for energy retrofits and green investments to project owners of HUD Section 8 housing.
- **Army Corps of Engineers**
 - \$4.6 billion for construction, operation and maintenance for previously-authorized projects including \$25 million for the Corps regulatory program.
- **Department of Education**
 - Of the \$53 billion, there are references to using recognized green buildings ratings systems.
- **USDA: Assisted Housing Stability and Green Retrofit Investments**
 - \$2.25 billion, \$2 billion will provide full-year payments to landlords participating in the Section 8 Project-Based program and \$250 million will support a program to upgrade HUD sponsored low-income housing to increase energy efficiency, including new insulation, windows and furnaces

ARRA Green Building Projects

- **DOD: Military Construction**
 - \$4.24 billion for Facilities Sustainment, Restoration and Modernization for U.S. and U.S. territories' facilities. A portion of these funds shall be used to invest in energy efficiency projects and to repair and modernize DOD facilities, including Defense Health program.
- **DOD: Military Construction**
 - Navy & Marine Corps: \$100 million for energy conservation and alternative energy projects.
- **DOD: Energy Conservation and Investment**
 - \$120 million for the Energy Conservation and Investment Program.
- **DOD: Military Family Housing Construction**
 - Army: \$34.5 million for construction and improvements to family housing to provide jobs, increase quality of life and employ energy efficiency through advanced construction techniques.
 - Air Force: \$80.1 million
- **DOD: Military Family Housing Operating Expenses**
 - Army: \$3.9 million for necessary maintenance including energy savings upgrade
 - Air Force: \$16.4 million
- **VA: Medical Facilities**
 - Of the \$1 billion appropriated, funds will be used for non-recurring maintenance and energy projects. The Senate report describes energy projects as follows: wind turbine systems, rooftop photovoltaic systems, and water conservation measures.
- **VA: National Cemetery Administration**
 - \$50 million for monument and memorial repairs including energy projects.

ARRA Green Building Projects

- **NIST**
 - \$360 million for maintenance and renovation of NIST facilities and laboratories using green technologies that maximize energy and water savings. \$180 million is for the competitive construction grant program for research science buildings including FY2008 and FY2009 competitions.
- **Bureau of Reclamation: Modernizing Facilities**
 - \$1 billion for DOI is directed for water and related resources projects.
- **GSA: Conversion to High Performance Green Buildings**
 - \$4.5 billion from the GSA's Federal Buildings Fund to convert GSA facilities to High-Performance Green Buildings
- **Bureau of Land Management: Construction**
 - \$180 million including funding for energy efficient retrofits of existing facilities.
- **Fish and Wildlife Services: Construction**
 - \$115 million including funding for energy efficient retrofits of existing facilities.
- **National Park Service: Construction**
 - \$589 million including funding for energy efficient retrofits of existing facilities.
- **Forest Service: Capital Construction and Maintenance**
 - \$650 million including consideration of alternative energy technologies.

Direct and Indirect Opportunities

- EEBG – states, cities, counties, towns (through states)
 - Develop an energy strategy and submit for funding
 - Can establish revolving loan funds to pay for projects
 - Obligate funds within 18 months of receipt
 - Opportunities for business – get involved in the planning
 - Solar and small wind suppliers
 - Bike and walk trails
 - Weatherization
 - IT emission reductions

State and Local Indirect Opportunities

- Weatherization
 - Insulation – including doors and windows
 - Funding goes through the state to local NFPs – significant increase in funding and need for more contractors
 - Repairs
 - HVAC
- Green jobs training – materials, space, instruction

Direct and Indirect Opportunities

- Schools - monies for renovation and energy efficiencies
- NOAA – satellite development and acquisition for climate modeling
- Habitat restoration
- Brownfields redevelopment
- UST – new monies for clean-up
- Watershed and flood prevention
- Indiana DieselWise grant announcement

Financing Incentives

- **Renewable Energy Production Tax Credit**
 - Provides a per-kilowatt-hour tax credit for electricity production from qualified renewable sources. Provides an extension through 2012 for wind facilities and through 2013 for solar, open- and closed-loop biomass, geothermal, municipal solid waste and qualified hydropower.
 - The bill also allows facilities to claim the Investment Tax Credit in lieu of the Production Tax Credit. The Investment Tax Credit is available in the year in which a facility is placed in service as opposed to the PTC, which is paid over a 10-year period.

- **Treasury Department Energy Grants**
 - In lieu of tax credits, taxpayers can receive a grant from the Treasury Department in an amount equal to 30% of the cost of the renewable energy facility.

Financing Incentives

- **Clean Renewable Energy Bonds (CREBs)**
 - Authorizes an additional \$1.6 billion of new CREBs to finance facilities that generate electricity from qualifying resources. CREBs may be issued by electric cooperatives, government entities (states, cities, counties, territories, Indian tribal governments, or any political subdivision thereof), and certain lenders. CREBs are issued (theoretically) with a 0% interest rate. The borrower pays back only the principal of the bond, and the bondholder receives federal tax credits in lieu of the traditional bond interest.

- **Advanced Energy Manufacturing Credits**
 - The bill provides \$2 billion worth of energy-related manufacturing investment credits at a 30% rate. These credits apply to projects creating or retooling manufacturing facilities to make components used to generate renewable energy, storage systems for use in electric or hybrid-electric cars, power grid components supporting addition of renewable sources, and equipment for carbon capture and storage.

Financing Incentives

- REAP – Rural Energy for America Program
 - Provides 25% of project cost to agricultural producers and rural small businesses for grants and loan guarantees for energy efficiency improvements, energy audits and renewable energy development assistance
 - 25% of project cost
 - Competitive grants to provide assistance to agriculture and rural small businesses