

Sustainable TRANSPORTATION



Renewable ELECTRICITY GENERATION



Energy Saving HOMES, BUILDINGS, & MANUFACTURING



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Energy Efficiency and Renewable Energy
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EERE's National Mission

To create American leadership in the global transition to a clean energy economy

- 1.) High-Impact Research, Development, and Demonstration to Make Clean Energy as Affordable and Convenient as Traditional Forms of Energy**
- 2.) Breaking Down Barriers to Market Entry**

EERE Programs

Renewable Energy



Solar



Wind



Water



Biomass



Geothermal



Hydrogen and Fuel Cells

Energy Efficiency



Buildings



Vehicles



Advanced Manufacturing



Government Sector



Renewable ELECTRICITY GENERATION

Office of Energy Efficiency and Renewable Energy
U.S. Department of Energy

- The U.S. clean energy industry has nearly doubled renewable energy generation from wind, solar, and geothermal sources since 2008.
- With annual growth rates of above 60%, the solar industry employs more than 100,000 people in all 50 states.
- DOE-led efforts are driving down the cost of drilling to produce geothermal energy.
- Today's wind industry supports 75,000 American jobs in 44 states. Nearly 70% of equipment installed at U.S. wind farms in 2011 came from domestic manufacturers, doubling from 35% in 2005.



The *SunShot Initiative* - a national initiative to make solar energy cost competitive with other forms of energy by the end of the decade. Reducing installed cost of solar energy systems by about 75% will drive widespread, large-scale adoption.

U.S. Renewable Energy



Renewable energy represented **nearly 12%** of total installed capacity and **more than 10%** of total generation in the U.S. in 2010

Renewable Electricity Generation

EERE plays a key role in advancing America's "all of the above" strategy, leading a large network of researchers and other partners to deliver innovative technologies that will make renewable electricity generation cost-competitive with traditional sources of energy.



Solar Energy Technologies Office: Tasked with making solar energy cost competitive with other forms of energy by the end of the decade. Reducing the installed costs of solar energy systems by about 75% will drive wide-spread, large-scale adoption of this technology.



Wind and Water Technologies Office: The Wind Program manages the public's investment in wind technologies to improve the performance and lower the cost of wind power.



Wind and Water Technologies Office: The Water Power Program researches, tests, evaluates, and develops renewable, environmentally responsible, and cost effective electricity from water resources. This includes hydropower as well as marine & hydrokinetic technologies



Geothermal Technologies Office: Researches, develops, and validates innovative and cost-competitive technologies and tools to locate, access, and develop geothermal resources in the U.S.



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TARGETS:

- Reduce vehicle petroleum use by 1 billion gallons/year by 2015 and 2.5 billion gallons/year by 2020
- Increase the efficiency of internal combustion engines demonstrating a fuel economy improvement for passenger vehicles of 25% by 2015, and for commercial vehicles of 20% by 2016 and 30% in 2018
- Reduce the cost of electric vehicle batteries by approximately 50% (roughly \$5,000) by FY14, reducing vehicle payback period by more than 40%
- Reduce the cost of an electric traction drive system that can deliver 55kW of peak power from \$19/kW in 2010 to \$12/kW in 2015, enabling cost competitive technologies for market entry and vehicle electrification

EV-Everywhere Grand Challenge



The ***EV Everywhere Grand Challenge*** focuses on the U.S. becoming the first nation in the world to produce plug-in electric vehicles that are as affordable for the average American family as today's gasoline-powered vehicles within the next 10 years.



Energy Saving

HOMES, BUILDINGS, & MANUFACTURING

Office of Energy Efficiency and Renewable Energy
U.S. Department of Energy

- Energy efficiency is the fastest, cheapest, and cleanest energy resource we have in America. That's why EERE works with industry and government partners to improve building energy codes saving up to 30% more energy than previous standards.
- DOE programs have led the way in efficiency R&D for more than 30 years: EnergyStar Appliances, windows, light bulbs, HVAC, hybrid vehicles.
- Since 2009, DOE & HUD have completed energy upgrades in more than 1 million homes across the country. For many families, these upgrades save over \$00 on their heating and cooling bills in the first year alone.



To date, 40 leading cities have joined the *Better Buildings Challenge*, committing over 325 million square feet of buildings. This will result in saving millions of taxpayer dollars through reduced energy use in public buildings .

New Priority Program Thrusts

- U.S. Clean Energy manufacturing Competitiveness
- EV-Everywhere: A Grand Challenge in EV's
- Grid Integration
- Wide Band Gap Semiconductors for Clean Energy
- Energy Data Initiative
- Coordinating EERE's Deployment Efforts



EERE Small Business Innovation Research

SBIR

SBIR targets the entrepreneurial sector because that is where most innovation and innovators thrive.

By reserving a specific percentage of federal R&D funds for small businesses, SBIR protects the small business and enables it to compete on the same level as larger businesses.

SBIR funds the critical startup and development stages and it encourages the commercialization of the technology,

<http://www.sbir.gov/>

http://www1.eere.energy.gov/office_eere/oe_sbir.html

<http://science.energy.gov/~media/sbir/pdf/files/DOESBIRWEBINAR113012.pdf>

Where does Small Business fit in?

And...What sets You Apart?



Top Ten EERE NAICS Codes

541330 – Engineering Services

541519 – Other Computer Related Services

541512 – Computer systems Design Services

541611 – Admin MGMT/General Mgmt Consulting Services

423430 – Computer and Computer Peripheral Equipment

541690 – Other Scientific and Technical Consulting Services

334111 - Electronic Computer Mfg

541513 – Computer Facilities Management Services

333315 – Photographic/Photocopying Equipment Mfg

541620 – Environmental consulting Services

Prime contracting opportunities: 2014

Information Technology

Voice over Internet Protocol, VoIP

+ Internet Services

Description: Methodology and group of technologies for the delivery of voice communications and multimedia sessions over Internet Protocol (IP) networks.
560 Employees.

Colorado – Golden Field Office

Base Year + 4 option years Value: \$1-5 M

Anticipated Release Date: TBD

Firm Fixed Price

Prime contracting opportunities: 2014

Engineering Services

Description: The contractor must have significant experience providing professional scientific, engineering and technical support services to Federal agencies or other entities in program areas such as; renewable technologies including solar, geothermal, wind and water plus have demonstrated proficiency in efficiency and transportation-related technologies; including fuel cells, vehicle technology, commercial and residential building technologies and familiarity with tangential programs managed by EERE such as sustainability practices, weatherization and FEMP program policies.

Value: \$ 85M

Anticipated Release Date: 1st Quarter

GSA Federal Supply Schedule setaside for 8(a)

Prime contracting opportunities: 2014

Engineering Services

Description: The Buildings Technology Office (BTO or the Program Office), within EERE, funds research and development (R&D) to help commercial builders, businesses, and homeowners reduce energy use through energy efficiency and renewable energy technologies. In support of reducing energy use in buildings, BTO currently sets legal requirements for efficiency standards and develops test procedures for certain consumer products and commercial and industrial equipment. DOE requires technical assistance through Appliance Standards Analysis and Regulatory Support Services (ASARSS) from a Contractor with a sufficient level of expertise in the industry to support DOE's management and integration of these activities.

Value: \$98M

Anticipated Release Date: 1st Quarter

Full and Open Competition

Prime contracting opportunities: 2014

Management Support Services

Description: The U.S. Department of Energy (DOE), Office of Energy Efficiency and Renewable Energy (EERE) has a requirement for technical support for the Federal Energy Management Program (FEMP) Operations and Maintenance (O&M) Working Group including studies, assessments, metering plans and utility rate analysis, energy data information system development, expert energy efficiency evaluation studies, operation and maintenance training, water projects, building commissioning/retro commissioning, and development of O&M program communications plan and program materials.

Value: \$1 - 5M

Anticipated Release Date: 1st Quarter

Small Business Setaside

Prime contracting opportunities: 2013

Management Support Services

Description: Support Services for the DOE Challenge Home Program located in the Office of Building Technologies, EERE.

Value: \$460K

Anticipated Release Date: 4th Quarter

Small Business Setaside

Management Support Services

Description: Building Re-tuning Training Market Analysis and Deployment Support

Value: \$75

Anticipated Release Date: 4th Quarter

Small Business Setaside

Prime contracting opportunities: 2013

Management Support Services

Description: Support P&TA Team and states and locals to develop implementation models that will serve as resources to states and locals

Value: \$150K

Anticipated Release Date: 4th Quarter

Small Business Setaside/GSA Schedule

Management Support Services

Description: Support P&TA Team communications activities, which enable effective collaboration with state and local governments and dissemination of technical assistance resources/ opportunities; outreach, tools, and trainings.

Value: \$140K

Anticipated Release Date: 4th Quarter

Small Business Setaside/GSA Schedule

Food for Thought

- Approximately Six Awards with a period of performance ending on or before 9/30/13;
 - Total Obligation of \$500
- Includes:
 - IT, Administrative Services, Engineering, Legal Services, Wireless Services, Project Facilitation, etc.

Trends

EERE is Fast Paced and requires a Broad Range of Services that typically include;

- IT
- Scientific/Technical
 - Wind, Solar, Building Science, Vehicles, Hydrogen & Fuel Cells, Geothermal, Water, Government Energy Management
- Business Administration
- Office Supplies

EERE will be using GSA Schedules, GWACs, Agency Strategic Sourcing BPAs. Fewer “open market” contracts.

MOBIS, NNSA BPAs and PES used.

Closing

Orders come to the GO Office fast and successful vendors are ready!

Across the org, EERE promotes a SB FIRST policy.

Partnering and Teaming is the key.

Business arrangements are the path forward.

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