



R&D Funding Opportunities for Wind Energy

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SMALL BUSINESS ROLE IN RENEWABLE ENERGY



- Renewable energy, including offshore wind is not just for large businesses and research institutions
- Small businesses can play a pivotal role in the developmental process
- New and innovative ideas for products and services
- Chief concern is locating funding for research & development

GREAT IDEAS – NO MONEY – NOW WHAT?



- **Federal Funding Opportunities**
 - Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR)
 - Standard Procurement Process (Request for Proposals/Bids)
 - Broad Agency Announcements (BAA)
 - Special Funding Opportunities (i.e. ARRA)

FEDERAL SBIR/STTR PROGRAM



- \$2 Billion plus early stage Research Development gated program
- 11 Agencies – DoD, DOE, NSF, EPA, USDA, DOT, NIH, DHS, DOEd, DOC (NOAA, NIST), NASA
- Set-aside program for small businesses
- Intellectual property rights remain with small business

FEDERAL SBIR/STTR PROGRAM



- Up to \$150K for Phase I
 - Feasibility - Will Your Idea Work?
 - 6 months Period of Performance

- Up to \$1M for Phase II
 - Prototype Development
 - 2 years Period of Performance

- FMI – www.sbir.gov or www.zyn.com/sbir

SAMPLE SBIR/STTR TOPICS



- Several Agencies Cover Most Aspects of Wind & Offshore Wind Energy
Dept of Energy:
 - Wave & Current Energy Technologies
 - Advanced Component Designs for Ocean Thermal Energy Conversion Systems
 - Wind Energy Technology Development:
 - Transportation, Blade Mfg, Non-conventional Wind Resources, Remote Wind Sensor, Offshore Infrastructure, Mooring, Anchoring
- DOE issues their SBIR/STTR RFA once per year in September with proposals due November

SAMPLE SBIR/STTR TOPICS



- National Science Foundation
 - Energy and Power Management Systems
 - Electronic systems for energy efficiency, Portable energy sources for mobile technologies, Portable energy sources for off-grid type applications,
 - Energy Scavenging/harvesting and its power management, Smart grids, buildings and circuits, Compact energy conversion systems, New storage technologies – e.g. super- and ultra-capacitors, Interface devices between batteries and super-capacitors, Novel voltage conversion, micro-inverters and DC-DC voltage converters, Compact, hi-voltage, hi-power systems
- NSF offers two solicitations a year. The next should be spring 2011

SAMPLE SBIR TOPICS



- U.S. Dept. of Agriculture
 - Encourages proposals related to research priorities and to alternative and renewable energy
 - Rural Development Topic
 - provide significant benefits to rural Americans – focus more on impact rather than technology i.e. Technologies and services that conserve energy, develop alternative energy sources such as wind and solar energy
 - Small & Mid-Sized Farms
 - enhanced utilization of renewable energy sources and more focus on energy efficiency and energy conservation
- USDA issues RFA in June – proposals due September

STANDARD PROCUREMENT PROCESS



- All federal agencies must advertise opportunities for companies large and small to prepare bids
- All opportunities can be found at www.fbo.gov
or via
- Maine Procurement Technical Assistance Center
www.maineptac.org – bid match service

BROAD AGENCY ANNOUNCEMENTS & ARRA



- Long term, general opportunities for R&D
 - US Broad Agency Announcement (BAA) Number M10PS00204 for Proposed Research on Safety of Renewable Energy Operations in the US Outer Continental Shelf
 - Environmental Protocols and Monitoring-Renewable Energy and Stewardship, Solicitation Number: M10PS00152

- Opportunities may be found at www.fbo.gov

- American Recovery & Reinvestment Act
 - Dept of Energy awards under Energy Storage, Smart Grid/Reliability Transmission & Distribution and also Renewable Energy: Geothermal, Hydropower, Solar, Wave/Tidal/OTEC and Wind – grants and loans

STATE OF MAINE OPPORTUNITIES



- Maine envisions 5 GW of deepwater offshore wind in the Gulf of Maine by 2030
- Maine Public Utilities Commission issues Request for Proposal on 9/1/10 titled Long-term Contracts for Deep-Water Offshore Wind Energy Pilot Projects And Tidal Energy Demonstration Projects due May 1, 2011

STATE OF MAINE OPPORTUNITIES



- Maine Technology Institute (MTI) www.mainetechnology.org
 - Seed Grants – opportunities for up to \$25,000 for small project specific innovative research and development
 - Contact Shane Beckim at 207-582-4790 x 210 or email at sbeckim@mainetechnology.org
 - Development Awards - contingent loans up to \$500,000 for development projects
 - Contact Jessica Gogan at 207-582-4790 x213 or email at jgogan@mainetechnology.org
 - Accelerated Commercialization Fund – equity position in Development Award companies
 - Contact Joe Migliaccio at 207-582-4790 x204 or email at jmigliaccio@mainetechnology.org

Thank you
or Questions?



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