Request for Information
DE-PS36-09G039008

Program Manager / Area: Megan McCluer, Program Manager, Wind & Hydropower Technologies Program

Information Requested on: Input from the public regarding the proceedings of the 20% Wind Energy by 2030 Workshop and the proceedings of the U.S. Wind Manufacturing Workshop.

Description: The Wind and Hydropower Technologies Program (WHTP) within the Department of Energy's Office of Energy Efficiency and Renewable Energy (DOE-EERE) is leading the nation's efforts to improve the performance and operability of wind energy technologies and lower the costs, to investigate emerging water power technologies, and to enhance the environmental performance and efficiencies of conventional hydropower technologies. To find more information about the WHTP, please visit http://www1.eere.enewpov/windandhydro/wind mvg.html.

The WHTP led the preparation of the *20% Wind Energy by 2030: Increasing Wind Energy's Contribution to U.S. Electricity Supply* report. The report, which was released in May 2008, illustrates the feasibility of integrating 20% wind energy with the U.S. electrical grid. The report outlines a scenario in which the United States could reach over 300 gigawatts (GW) of installed wind power by 2030. The scenario presented in the *20% Wind Energy by 2030* report for achieving 20% wind energy by 2030 is by no means a suggested national policy. Given the scale of the scenario and the challenges discussed in this report, the WHTP decided to host two workshops to collect additional individual comments and to build on the recommendations. On August 27-28, 2008, more than 80 wind and manufacturing experts participated in a DOE-EERE WHTP technical workshop on what is needed to strengthen the U.S. wind manufacturing sector in order to support the machines and components for 300 GW of installed wind power by 2030. This workshop addressed challenges for manufacturing large wind blades, rotors, towers, foundations, and drive trains, as well as manufacturing entire systems for distributed wind. The second DOE-EERE WHTP workshop occurred on October 6-7, 2008 with more than 130 wind energy professionals discussing possible research and development (R&D) technology areas and analytical pathways to achieve the scenario outlined in the *20% Wind Energy by 2030* report. This workshop focused on six key wind energy issues: large land- based wind technologies, distributed wind technologies, offshore wind technologies and siting strategies, grid system interconnection, environmental risks and siting strategies, and market development and public policies.

The Department of Energy (DOE) is seeking additional input from the public regarding the proceedings of the 20% Wind Energy by 2030 Workshop and the proceedings of the U.S. Wind Manufacturing Workshop. The information presented in the workshops can be found, as attachments, on the IIPS cover page, under the "Supporting Documents/Amendments for this Financial Assistance Opportunity" heading.

The information collected may be used for internal DOE planning and decision-making to align future activities under the Wind & Hydropower Technologies Program with the Administration's goals for increased use of renewable energy and the creation of domestic jobs. Interested parties might include, but are not limited to: developers, investors, industry, Native American Tribes, renewable energy

equipment suppliers, electric utilities, independent power producers, environmentalists, academics, and public, private, or non-profit entities.

Request for Information Guidelines: The sole purpose of this Request for Information (RFI) is to gain input from the public regarding the proceedings of the 20% Wind Energy by 2030 Workshop and the proceedings of the U.S. Wind Manufacturing Workshop. This does not constitute a request for specific project proposals. **DOE will not pay for information provided under this RFI, and there is no guarantee that future funding opportunities or other activities will be undertaken as a result of this RFI.**

Please send your response (one attachment only) via email, with the title, "RFI Response" to WindRFI@go.doe.gov. Your response should be limited to 3 pages, submitted in Microsoft Word as an email attachment to the address above and received **no later than 8:00 PM Eastern Daylight Time on 4/03/2009.**

Please include as part of your response, contact name(s), phone number(s), email addresses, organization name, address, and type of business or institution.

RESPONSES WILL NOT BE CONSIDERED CONFIDENTIAL. DO NOT INCLUDE ANY CONFIDENTIAL OR PROPRIETARY INFORMATION IN YOUR RESPONSE.

Questions: Questions regarding the content of this RFI should be submitted via email to http://e-center.doe.gov at the location of this numbered RFI. "RFI Question" should be included as part of the subject line.

DOE reserves the right not to reply to any or all comments or questions submitted under this RFI.

Rationale or Justification: The main purpose of the two Workshops described above was to collect comments from individual participants on possible research and development (R&D) areas and analytical pathways to achieve the scenario outlined in the *20% Wind Energy by 2030* report. The documents from the two proceedings are compilations of these comments and opinions of the participants at these Workshops. More input is invited. The information being sought under this RFI is intended to assist DOE in further assessing barriers and opportunities to the 20% Wind Energy by 2030 scenario.

Requested Information: DOE-EERE WHTP invites comments and suggestions on all key topics, findings, themes, and suggestions found in the Proceedings of the subject workshops. Input is especially encouraged on possible analytical and R&D pathways which could contribute to the achievement of the 20% Wind by 2030 scenario, particularly in the following areas:

1. Design and manufacture of large wind components
2. Modeling and prediction tools for large wind performance and reliability
3. Design and manufacture of distributed wind systems
4. Offshore wind: reliability, system design and optimization
5. Models and analysis, forecasting tools, and flexible system management technologies for grid system interconnection
6. Integrated risk assessment framework for environmental and siting challenges

Thank you. The Department appreciates the time and effort you have put forth in responding to this Request for Information.