

**DEPARTMENT OF ENERGY****Office of Energy Efficiency and Renewable Energy****Motor Challenge Showcase Demonstration Projects**

**AGENCY:** Office of Energy Efficiency and Renewable Energy, Department of Energy.

**ACTION:** Notice inviting participation.

**SUMMARY:** The U.S. Department of Energy (DOE) is interested in obtaining proposals from industrial electric motor system end users for projects that are intended to demonstrate and "showcase" electric motor system energy efficiency, productivity, and environmental improvement in specific industrial facilities and settings. Projects selected by DOE will become "Showcase Demonstrations" and are part of a larger, Federally-sponsored (DOE) program that is an industry-driven collaborative effort called MOTOR CHALLENGE. The experiences and successful results to be gained from the Showcase Demonstrations will be used to encourage other U.S. industrial companies with similar applications to adopt efficient electric motor systems, and therefore, to increase the market penetration of efficient electric motor systems on a widespread basis within the U.S. Currently twenty-one Showcases are underway, and DOE intends to build upon the initial set of Showcases by now focusing on process industries.

**DATES:** Proposals may be submitted between the receipt of this notice and March 31, 1996. Proposals shall be considered as meeting the deadline if they are either: (1) Received on or before the deadline date or, (2) postmarked on or before the deadline date. Proposals which do not meet the deadline will be considered late applications and may not be considered. Acceptance will be done on a rolling basis. Within four weeks of submittal, submitters will be notified regarding acceptance, rejection, or a request for further information and/or clarification. It is envisioned that selected projects will have a duration of no more than 18 months, and therefore, projects are expected to be completed (the project's costs and benefits defined and validated) by September, 1997.

**ADDRESSES:** Showcase proposals should be submitted to: Mr. Andrew J. Szady, Oak Ridge National Laboratory, P.O. Box 2009, 9102-1, Oak Ridge, TN 37831-8038, 423-576-0243, Fax 423 576-0493. If there are any questions concerning Showcase proposals please call the above Motor Challenge Program

contact. For additional information on the MOTOR CHALLENGE Partnership, or to obtain application forms for the Partnership, call the MOTOR CHALLENGE Hotline at 1-800-862-2086.

**SUPPLEMENTARY INFORMATION:** The MOTOR CHALLENGE program is designed to reduce greenhouse gas emissions through increased market penetration of efficient electric motor systems. It is expected that industrial participants will achieve increased electric motor system efficiency through the system integration of a variety of technology and application options including: energy efficient electric motors, adjustable speed drives, and motor-driven equipment (e.g., pumps, fans, and compressors) within industrial operations and processes. DOE is carrying out the MOTOR CHALLENGE program with industrial and manufacturing companies, municipalities, electric motor and drive manufacturers, original equipment manufacturers (OEMs), distributors, utilities, energy service companies, research institutes, other Federal agencies, state energy agencies, public interest groups, and other supporting organizations. DOE will be the Federal agency with the responsibility of selecting Showcase Demonstration projects, and will then develop an Agreement between the government and the respective selected companies.

**Specific Aim of This Request**

The MOTOR CHALLENGE program was launched on October 19, 1993 by the Federal government (DOE) and industry with the signing of the MOTOR CHALLENGE Compact (dated October 13, 1993). As stated within the MOTOR CHALLENGE Compact, DOE would issue an appropriate notice to solicit participants in the MOTOR CHALLENGE Showcase Demonstrations. On October 7, 1994 DOE issued a request for Showcase proposals, and on May 23, 1995 twenty-one Showcases were selected and announced. These Showcases are currently underway. This current request is for additional Showcase Demonstrations (approximately 10) primarily directed at the following industries:

- (1) Paper and Allied Products
- (2) Steel
- (3) Chemical
- (4) Glass
- (5) Aluminum
- (6) Refining
- (7) Metal Casting
- (8) Food Processing
- (9) Textiles

**(10) Federal Operating/Production Facilities**

Additional industries will be considered if, in the judgment of DOE, the Showcase demonstrates energy and environmental savings consistent with the tenets of the Motor Challenge Program, and the industry is currently not represented in a Showcase.

As one condition of proposing to be a Showcase Demonstration, DOE requires that each company, organization, and/or agency of a proposing team, be a member of the MOTOR CHALLENGE Partnership by submitting an appropriately completed application. (The availability of application forms is discussed in the **ADDRESSES** section above).

**Benefits of Industry Participation**

Industry will receive many benefits by participating as a MOTOR CHALLENGE Showcase Demonstration project team. The principal benefit of participation is for an individual company to achieve energy efficiency, productivity, and environmental performance goals faster than otherwise. This will primarily be accomplished by the adoption of a "systems approach" in the way electric motor and drives are utilized within industrial operations and processes. Participation in the Showcase Demonstration projects provides leveraged access to technical assistance, and more reliable information. Participants will use the experiences of the Showcase Demonstrations to replicate opportunities within similar applications. In addition, participants will gain national recognition for taking a leadership role in a unique industry/government partnership. A secondary benefit of participation is to catalyze and to solidify strategic alliances among team members that otherwise would be more difficult to initiate and/or to maintain.

Specifically, the MOTOR CHALLENGE Showcase Demonstration project teams will be provided the following technical assistance and special access to DOE-funded activities:

(1) *Input to Development of Technical Tools and Best Practices.* DOE is supporting the development of design-decision tools, best practices, and guidelines on various electric motor system application topics (e.g., motors, adjustable speed drives, pumps, fans, compressors, etc.). The Showcase teams will have the opportunity to provide input to DOE to ensure that the tools, materials, and procedures developed, appropriately meet industry's design and decision-making needs and requirements.