

China-U.S. Energy Efficiency Steering Committee Meeting
Energy Efficiency Motor Systems Team Report
June 25, 1999

Achievements Since the May 1997 Steering Committee Meeting

- Developed detailed action plan in 1997, revised action plan in 1998.
- Action plan is the foundation for a proposed “China Motor Systems Electricity Saving Program” to be featured in China’s Tenth Five-Year Plan.
- In fall 1997, hosted ASD study tour of U.S. led by China Energy Conservation Investment Corporation (CECIC).
- In May 1998, motor systems workshop held in Beijing; hosted by CECIC.
- In summer 1998, developed funding proposal for medium-term China motor activities; funding is still being sought.
- In spring 1999, initiated cooperation with the Technology Cooperation and Assistance Pilot Program (TCAPP). A TCAPP motor systems meeting was held in July 1999. TCAPP is considering making motor systems one of two focus areas in 2000.
- In spring 1999, LBNL worked with the Energy Foundation on draft proposal from CECA to review and prepare enabling policy and regulations for the Energy Conservation Law. Linkage made to a province-based motor systems program pilot as a possible second year activity.

Issues and Opportunities

- Opportunities for improving the efficiency of motor systems in China include improved efficiency motors, variable speed drives, motor-driven equipment (fans, pumps and compressors), system design, and operations and maintenance. Over the long term (by 2010), the program will seek to reduce motor system energy use in China by 10 to 15%.
- Chinese enterprises, design institutes and other system designers lack information and training on benefits of and approaches for optimizing motor systems.
- Difficulties in obtaining financing are another barrier to facilitating the development and use of high-efficiency motor systems in China.
- China is now developing its Tenth Five-Year Plan covering 2001-2005; including the China Motor Systems Electricity Saving Program in this plan will be an important step for advancing efforts to improve motor system efficiency in China.

Next Steps

- Summer-Fall 1999, strengthen linkages with the IIEC motor program in China and with TCAPP motor program. Seek to integrate these three efforts into a coordinated and complementary set of activities.
- Fall 1999 - extended visit by US representatives to China to:
 - spend two days training Chinese engineers to co-teach the pumping workshop;
 - conduct a two-day pumping workshop;
 - spend four days visiting potential Showcase Demonstration sites;
 - discuss results of these visits and plan at least one Showcase Demonstration project;
 - explore opportunities to adopt the IEEE B motor test procedure in China, and to institute and promote a “Green Motor” labeling program in China;
 - refine action plan by finalizing planned activities for 2000.

- Fall-Winter 1999 - Develop new mid-term funding proposal for a Chinese motor systems program. Seek funding source. Also begin to explore long-term funding sources.
- Winter 2000 – China team to conduct study tour of U.S. to learn more about U.S. Motor Challenge Program, to discuss Chinese program, and to explore funding opportunities with international agencies. U.S. team to help plan and host the tour.

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(Peter Salmon-Cox, DOE, was the US representative at the meeting)**