



Industrial Electric Motor Systems Workshop

15-16 May 2006

IEA Headquarters

9 Rue de la Fédération, 75015 Paris

Métro Bir-Hakeim (Line 6), RER C - Champ de Mars – Tour Eiffel

<http://www.iea.org/textbase/about/map.asp>

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Motor systems account for half to two thirds of industrial electricity use, or 25-40% of global electricity use. Motor systems can be split into a number of segments, each with their own efficiency. A potential for 20-30% efficiency gains for complete systems is widely quoted. This potential equals 10% of global electricity demand. However for a range of reasons this potential is not put into practice. Goal of the workshop is to quantify the global potential better and to discuss various approaches to overcome the barriers to improvements.

Questions to be answered

- What share of electricity is used for motor systems worldwide?
- What are the efficiencies of motor systems in different sectors and different world regions?
- What is the efficiency of different applications (pressurized air systems, pumps, fans, etc.)?
- What has been the development of motor system efficiencies during the past three decades?
- What is the remaining potential for motor system efficiency gains (motors + system design)?
- What is the potential to reduce motor system service demand?
- What are the economic of such improvements (incl. planning/transaction cost)?
- What type of systems should policies focus upon (per sector/region/system)?
- What policies are needed to improve motor system efficiencies?
- What areas should G8 countries focus on in order to enhance motor system efficiency?

The results of this workshop will serve as input for the G8 Dialogue on Climate Change, Clean Energy and Sustainable Development, notably the meeting of the G8 leaders during the St. Petersburg summit in July 2006.