



**Asia-Pacific
Economic Cooperation**

EWG Expert Group on Energy Efficiency & Conservation (EGEE&C)

**Electric Motors update
China
EGEE&C 33 Singapore
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Electric Motors project update

- This project has been officially completed in the end of last year, including the payment.
- All of proposed activities in the original project proposal have been done, major ones can be summarized as follows (see following slide)



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Electric Motors project update

- study and overview of the motor standards and best practices in main APEC economies;
- work with “Standards for Energy Efficiency of Electric Motor Systems” (SEEEM) project to push the 1st international harmonization work on energy efficiency standard on end energy-using products, IEC 60034-2-1 and IEC 60034-30;
- policies suggestions on motor standard harmonization and dissemination of the best practice in APEC region



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Electric Motors project update

- This project has fully reached the targets, but the standard harmonization work is a very complicated work: it's not possible to finish all of the work through a single project in specific period.
- We propose that...



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Electric Motors project update - proposals

- The US have decided to set the National Electrical Manufacturers Association (NEMA) level as the MEPS in American standard in 2010
- The EU has just made the final decision to issue the MEPS for motors. The European Regulatory Committee has decided on 11 March 2009 mandatory Minimum Energy Performance Standards MEPS for electric motors from 0.75 kW to 375 kW:
 - IE2 by 2012
 - IE3 by 2015 from 7.5 kW and up (or IE2 + ASD)
 - IE3 by 2017 all sizes (or IE2 + ASD)



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Electric Motors project update – proposals

- To realize the final real harmonization on electric motor energy efficiency standards among APEC members, we need much more work in the future to push the members adopt the new IEC standards.
- However, other countries maybe have no plan to revise their standards based on the IEC standards: we need to do more work on it to push the work.



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Electric Motors project update – proposals

- As for the dissemination of best practice on energy efficiency for motors and motor systems, there is even more work need to be done.
- Taking into account of a lot countries have been running the national projects with similar names like “Motor Challenge”, it’s very necessary to strengthen the work or establish a network on motor system energy efficiency improvement and share experience in APEC region