

Global Motor Systems Network




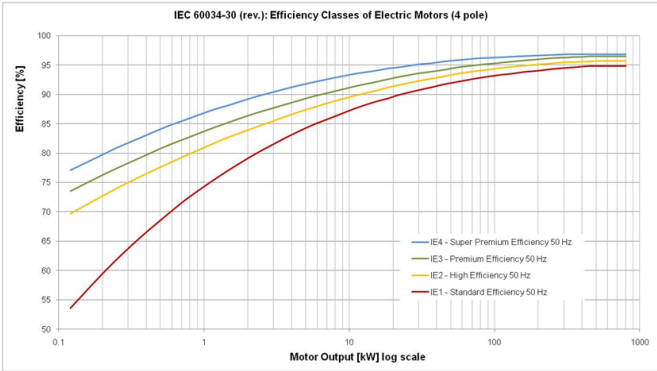




EMSA Newsletter no. 2/2011

Zurich June 2011:

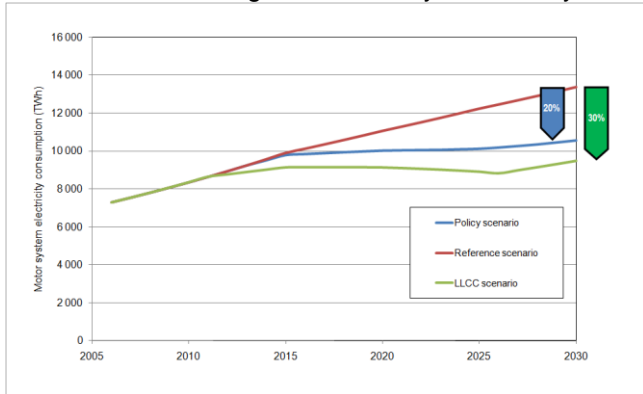
See you all at the EEMODS'11 in Washington DC in September 2011!

1	<p>This is the latest edition of the Electric Motor Systems Annex (EMSA) Newsletter. Our subscription has grown now to 2'020 people from 68 countries.</p> <p>Global Motor Systems Network is the outreach project of EMSA in the International Energy Agency's Implementation Program 4E: Efficient Electrical End-Use Equipment.</p>	
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Events		
2	<p>EEMODS'11 will be held on 12 - 14 September 2011 in Alexandria VA (near Washington DC). The program is organized in 21 sessions with more than 70 papers to be presented.</p> <p>From EMSA there will be presentations by</p> <ul style="list-style-type: none"> • Andrew Baghurst: Standard algorithm for efficiency calculation • Conrad U. Brunner: Harmonized standards for motors and systems • Konstantin Kulterer: Motor Policy Guide • Sandie B. Nielsen: Motor Systems Tool • Melanie Slade: Testing Centres Network • Rita Werle: EMSA – the global effort 	<p>energy efficiency in motor driven systems Alexandria VA (USA) September 12 to 14, 2011</p> <p>To register: www.eemods.org</p>
3	<p>The next Motor Summit will be held in Zurich in the fall of 2012. We will keep you posted on venue and exact dates once they are decided.</p> <p>Presentations, proceedings and photos of the last Motor Summit 2010 are available at:</p>	<p>MOTOR SUMMIT 2010 www.motorsummit.ch</p>

News		
4	<p>IEC has advanced work on the testing standard for electric motors fed by converters. A Committee Draft for Voting IEC 60034-2-3 has been published. The deadline for comments to your National Committee is 9 September 2011. If you would like to have a copy for preparing National Committee positions, send an e-mail to:</p>	 www.iec.ch info@motorsystems.org
5	<p>IEC has released a Committee Draft of the revision for the standard on efficiency classes IEC 60034-30. The scope has been enlarged to include all kinds of electric motors between 0.12 and 800 kW, and the definition of Super Premium motors IE4.</p> <div style="text-align: center;">  </div>	 <p>If you would like to have a draft copy send an email to info@motorsystems.org.</p> <p>You can send your comments to your national IEC committee by 5 August 2011.</p>
6	<p>The new European regulation for fans has been published on 6 April 2011. Fans from 125 W - 500 kW have mandatory Minimum Energy Performance Standards from 2013 (first phase) and 2015 (second phase).</p> <p>See Commission Regulation No 327/2011 at: http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:090:0008:01:EN:HTML</p>	
7	<p>A new Working Document on European ecodesign requirements for water pumps was released in May 2011 for stakeholder comments.</p> <p>If you would like to receive a copy, send an e-mail to:</p>	 info@motorsystems.org
8	<p>Japan has at the beginning of 2011 formally adopted the efficiency classes IEC 60034-30 in JIS C 4034-30 and the testing standard IEC 60034-2-1 in JIS C 4034-2-1. If you want a copy (available in Japanese only) please send an e-mail to:</p>	 Japanese Standards Association English Page info@motorsystems.org

9 The energy consumption of motor systems could be reduced by 20 – 30% by 2030 with appropriate policies, which would reduce global electricity demand by 10%.



The new IEA publication of Paul Waide & Conrad U. Brunner et al: **Energy-Efficiency Policy Opportunities** for Electric Motor-Driven Systems gives a global overview on motor systems in place and efficiency potentials.

Free download at:
www.iea.org/papers/2011/EE_for_ElectricSystems.pdf



Energy-Efficiency
Policy Opportunities
for Electric
Motor-Driven Systems

WORKING PAPER

www.iea.org/publications/

10 A **global work plan** for energy-efficiency policy opportunities for electric motor-driven systems is proposed in the new IEA publication of Hugh Falkner & Shane Holt: **Walking the torque**.



WALKING THE TORQUE
Proposed work plan for energy-efficiency policy opportunities for electric motor-driven systems

INFORMATION PAPER

2011

www.iea.org/publications/

11 The findings of the IEC **Round Robin** motor testing program will be summarised in a paper by Axel Möhle at EEMODS'11. Work has started in TC2 to include these findings and other improvements of accuracy and repeatability in the revision of the testing standard **IEC 60034-2-1**. A preferred testing method for 3-phase motors up to 1000 kW has been adopted: summation of losses with load test, stray load losses determined from residual loss. A committee draft will be published by the end of 2011.



www.iec.ch

12 A **Corrigendum** to the European Commission Regulation No 640/2009 on ecodesign requirements for electric motors was published in February 2011.

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:046:0063:01 REG 2009 640 63:EN:HTML>

4E Efficient Electrical End-Use Equipment		
13	<p>EMSA work plan for 2012 - 2014 EMSA prepares to extend the project until 2014. The plan will be decided at the next EMSA meeting in Washington DC from 8 - 9 September 2011. At present, EMSA works according to the seven Tasks shown to the right.</p> <p>If you would like to reach one of the Task Leaders go directly to: www.motorsystems.org/contact</p>	<p>A Implementation support & outreach B Technical guide for motor systems C Testing centers D Coherent motor policy E Training & capacity building F Energy management in industry G New motor technologies</p>
14	<p>The latest 4E Mapping & Benchmarking Newsletter was published in May 2011. Results of surveys of regulatory comparisons as well as of sales weighted data for consumption and efficiency for air conditioners are now available.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> </div> <p><i>Figure 1: Selected current and planned MEPS for split and unitary (packaged) air conditioners >14kW cooling capacity. (Note: the scope of products included in each regulation may be slightly different in type and capacity range between countries/regions)</i></p>	<div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> </div> <p>http://mappingandbenchmarking.iea-4e.org</p>

If you have any questions please feel free to ask. If you are running a national motor efficiency program: tell us!

Best regards from Zurich Switzerland,

Conrad U. Brunner & Rita Werle

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EMSA is the Electric Motor Systems Annex of the International Energy Agency IEA Implementing Agreement on Efficient Electrical End-Use Equipment 4E. Currently Australia, Austria, Denmark, Netherlands, Sweden and Switzerland participate actively in EMSA together with Canada, France, Japan, Korea, South Africa, United Kingdom and USA in 4E.

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