

Global Motor Systems Network



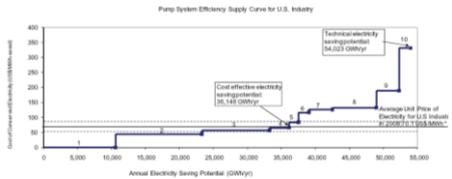
EMSA Newsletter no. 3/2011

Zurich November 2011:

See you all at the Motor Summit 2012 in Zürich in December 2012!

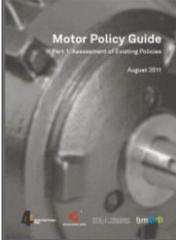
1	<p>This is the latest edition of the Electric Motor Systems Annex (EMSA) Newsletter. Our subscription has grown now to 2'468 people from 67 countries.</p> <p>Global Motor Systems Network is the outreach project of EMSA in the International Energy Agency's Implementing Agreement 4E: Efficient Electrical End-Use Equipment.</p>	
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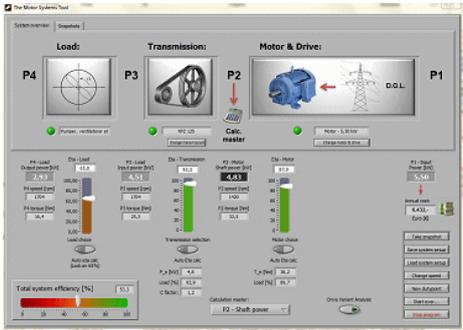
Events		
2	<p>EEMODS'11 was held on 12 - 14 September 2011 in Alexandria VA (near Washington DC). The program was organized in 21 sessions with more than 70 papers presented.</p> <p>From EMSA presentations were made by:</p> <ul style="list-style-type: none"> • Conrad U. Brunner: Harmonized standards for motors and systems • Konstantin Kulterer: Motor Policy Guide • Sandie B. Nielsen: Motor Systems Tool • Sarah Hatch: Testing Centres Network • Rita Werle: EMSA – the global effort • Rita Werle: First results of the Swiss financial incentive program Easy for efficient motor systems <p>EEMODS'11 in Control Engineering:</p>	<div style="border: 1px solid black; padding: 5px;"> <p>ee mods '11 conference</p> <p>energy efficiency in motor driven systems</p> <p style="font-size: small; text-align: center;">Alexandria VA (USA) September 12 to 14, 2011</p> <p>Proceedings: www.eemods.org</p> <p>EMSA papers: www.motorsystems.org/motor-events</p> <p>Part 1 / Part 2</p> </div>
3	<p>The next Motor Summit will be held in Zurich Switzerland from 5 to 6 December 2012. Registration will be open from spring 2012.</p> <p>Presentations, proceedings and photos of the last Motor Summit 2010 are available at:</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="font-size: x-small; text-align: center;"> S - A - F - O swissenergy 4E topmotors.ch </p> <p style="text-align: center; font-weight: bold; font-size: large;">MOTOR SUMMIT 2012</p> <p style="text-align: center;">www.motorsummit.ch</p> </div>
4	<p>The seventh international conference on Improving Energy Efficiency in Commercial Buildings (IEECB'12) will take place in Frankfurt, Germany on 18 - 19 April 2012, during the Light+Building trade fair.</p> <p>Call for papers: http://re.jrc.ec.europa.eu/energyefficiency/events.htm</p>	

News	
<p>5 Aimee McKane and Ali Hasanbeigi from Lawrence Berkeley National Laboratory organized a special session at EEMODS'11 on "Creating a Motor System Experts Network". Recent research on a transparent methodology for quantifying the benefits of energy efficient motor systems based on reliable data was discussed. More information and session presentations:</p>	 <p>http://industrial-energy.lbl.gov/node/494</p>
<p>6 Discussions on EEMODS'11 were ongoing on policy instruments to enforce compliance with Minimum Energy Performance Standards for motors. The use of individual identification on the rating plate with a radio-frequency identification (RFID) label is considered especially for motors embedded within machines. RFID chips are currently used for many purposes, e.g. in certain credit cards and biometric passports.</p>	
<p>7 High efficiency and high speed copper rotor induction motors in electric vehicles promise more power per unit of weight. A 3-phase, 4-pole induction electric motor, producing a maximum net power of 185 kW delivers a maximum torque of 270 N·m obtained at 0 rpm that stays almost constant up to 6 000 rpm. More information: http://en.wikipedia.org/wiki/Tesla_Roadster#Motor</p>	
<p>8 Super-Efficient Equipment and Appliance Deployment (SEAD) Initiative proposed an international energy efficient electric motors award in 2013. SEAD is an initiative of the Clean Energy Ministerial that seeks to engage governments and the private sector to transform the global market for energy-efficient equipment and appliances. More information: www.superefficient.org/activities/awards</p>	 <p>For program updates, email your contact information to: awards@superefficient.org</p>
<p>9 Minimum Energy Performance Standards in Canada formally take effect at premium efficiency level (IE3) on 12 April 2012, according to Amendment 11 to the Energy Efficiency Regulations, published on 12 October 2011 in the Canada Gazette, Part II.</p>	
<p>10 A new study, commissioned by the Agency of Natural Resources and Energy (ANRE) based on data for 2009, was published: 15.5 TWh/a electricity could be saved in Japan, if all motors were replaced by IE3, according to the results of a survey conducted by the Institute of Applied Energy in Japan. Motors will be included in the Top Runner Program with target year 2015. More information in the presentation of Takeshi Obata: www.eemods.org/proceedings.html</p>	

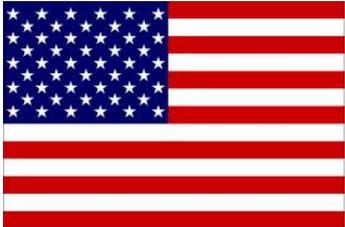
11	<p>The Committee Draft of the revision for the standard on efficiency classes IEC 60034-30 has been discussed at the Washington meeting in September 2011. An advanced draft will be published shortly. The scope of the efficiency classes will include all kinds of electric motors between 0.12 and 800 kW, and the definition of Super Premium motors IE4.</p>	 <p>If you would like to have a next draft copy send an email to: info@motorsystems.org.</p>
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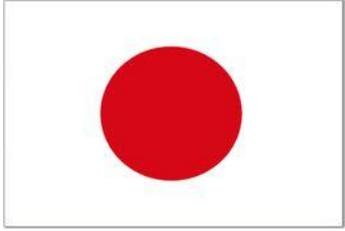
4E EMSA

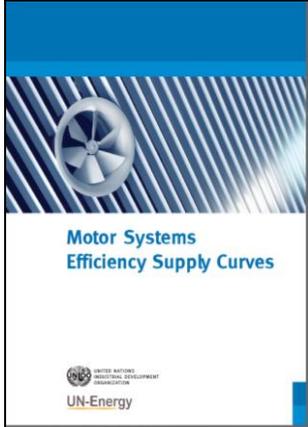
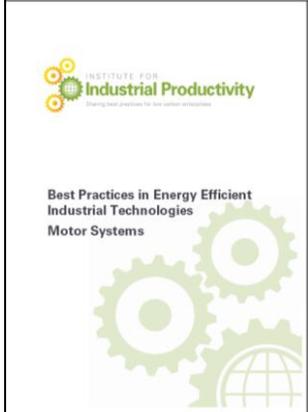
12	<p>EMSA has published the Motor Policy Guide – Part 1: Assessment of Existing Policies. The guide includes an analysis of existing motor systems policy instruments in different parts of the world (Australia, China, Europe, USA) and recommendations for successful policy design.</p> <p>Free download: www.motorsystems.org</p>	
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13	<p>EMSA has published the Motor Systems Tool. The Tool calculates the efficiency of a complete motor system, taking into account load characteristics, transmission, motor and controls. It is intended for engineers, machine builders, energy consultants and others working on optimizing machine systems.</p> <p>Free download: www.motorsystems.org</p>	
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14	<p>The “Guide for the Use of Electric Motor Testing Methods based on IEC 60034-2-1”, prepared by Australia within EMSA, was discussed in a workshop at EEMODS’11 by 30 people from 15 laboratories in 12 countries.</p> <p>A summary of the workshop will soon be available at: www.motorsystems.org</p>	
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15	<p>The 4E motor systems program EMSA has been extended until 2014. Work will be focused on issues associated with motor systems policy, capacity building, motor testing, international standards and international exchange - in particular liaison with the SEAD initiative. The USA is joining EMSA for the next program period. Welcome!</p> <p>If you would like to reach the EMSA team go directly to:</p>	 <p>www.motorsystems.org/contact</p>
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16	<p>The EMSA Newsletter is from now on also available in Japanese, thanks to the cooperation with the Japan Electrical Manufacturers' Association (JEMA). If you would like to include your Japanese motor systems contacts: please send us their e-mail addresses to info@motorsystems.org. 日本電機工業会 (JEMA) のご協力により、EMSA ニュースレター日本語版の配信を開始しました。日本のモータシステム関係者への配信を希望される場合は、こちらまでEメールアドレスをお知らせください。 info@motorsystems.org.</p>	
17	<p>From 2012, the Newsletter will be available in Russian as well. If you would like to include your Russian motor systems contacts: please send us their e-mail addresses to info@motorsystems.org. Начиная с 2012 г. информационный бюллетень будет также издаваться на русском языке. Если Вы желаете чтобы ваши контакты русских моторных систем были включены в бюллетень, пожалуйста пошлите нам адреса их электронной почты по адресу info@motorsystems.org.</p>	

Publications		
18	<p>The United Nations Industrial Development Organization (UNIDO) has published “Motor System Efficiency Supply Curves: Assessing the Energy Efficiency Potential of Industrial Motor Systems” by Aimee McKane and Ali Hasanbeigi. The report estimates the total <i>technical saving potential</i> in five countries and the EU for motor systems in industry:</p> <ul style="list-style-type: none"> • 43% to 57% for pumps, • 29% to 56% for compressed air, • 27% to 46% for fan systems. <p>More information: http://industrial-energy.lbl.gov/node/450</p>	
19	<p>Global low voltage motors market revenues to grow rapidly in coming years according to the latest forecast from IMS Research. During this time there will also be a profound change in the market's composition by efficiency class, with IE2 motors accounting for more than half the market by 2015. More: http://imsresearch.com/news-events/press-template.php?pr_id=1876</p>	
20	<p>The Institute for Industrial Productivity published the report “Best Practices in Energy Efficient Industrial Technologies – Motor Systems” by Anibal T. de Almeida, Joao Fong and Hugh Falkner. The report identifies best practices to reduce greenhouse gas emissions and improve economic efficiency in the industrial sector. It contains a database of energy efficiency measures, which will be available as a searchable user-friendly database next year.</p> <p>Free download: www.iipnetwork.org/publications_and_links.php</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, USA and Switzerland participate actively in EMSA. Canada, France, Japan, Korea, South Africa, Sweden and United Kingdom participate in other 4E Annexes.

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