

全球 电机系统 网络



EMSA 通讯： 2012 第 2 期（English version below）

2012 年 6 月，苏黎世：

期待今年 12 月在电机峰会 2012 上，在苏黎世与各位相会！

1	<p>这是电动马达系统附录（EMSA）的最新通讯。我们期刊的订阅用户已经增长到了 2908 人，来自 75 个不同国家。我们非常重视我们迄今收到的反馈和意见，并希望能够听到更多来自你们的声音。</p> <p>你可以订阅通讯的英语版、德语版、中文版、日文版和俄语版： www.motorsystems.org/emsa-newsletter</p>	 <p>Thomas Burla[©]</p>
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活动																				
2	<p>下一届电机峰会将于 2012 年 12 月 5 日至 6 日在瑞士苏黎世召开。</p> <p>Program overview</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Tuesday 4 Dec</th> <th style="width: 33%;">Wednesday 5 Dec</th> <th style="width: 33%;">Thursday 6 Dec</th> </tr> </thead> <tbody> <tr> <td>EMSA Workshops*</td> <td>MS'12 International Day</td> <td>MS'12 Swiss Day</td> </tr> <tr> <td>Policy</td> <td>am session</td> <td>am session</td> </tr> <tr> <td>Motor Tools</td> <td colspan="2" style="text-align: center;">Lunch</td> </tr> <tr> <td>Testing</td> <td>pm session</td> <td>pm session</td> </tr> <tr> <td></td> <td>MS'12 Dinner</td> <td></td> </tr> </tbody> </table> <p>*Places are limited</p>	Tuesday 4 Dec	Wednesday 5 Dec	Thursday 6 Dec	EMSA Workshops*	MS'12 International Day	MS'12 Swiss Day	Policy	am session	am session	Motor Tools	Lunch		Testing	pm session	pm session		MS'12 Dinner		 <p>MOTOR SUMMIT 2012</p> <p>详细议程安排以及注册 www.motorsummit.ch</p> <p>电机峰会 2012 将选择并汇集来自科研、联邦及地方政府、公用事业单位、电动机制造商、OEM 厂商、电机系统用户以及其他感兴趣的单位的专家。</p>
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3	<p>在 2012 年 12 月 4 日召开的电机峰会前，还将有 3 场研讨会在同一会场举行：</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d9ead3;"> <th style="width: 50%;">Policy (morning)</th> <th style="width: 50%;">Participation recommended for:</th> </tr> </thead> <tbody> <tr> <td>Policy instruments for efficient motor systems; experience from the USA, energy management systems.</td> <td>Policy makers and experts involved in policy making.</td> </tr> <tr style="background-color: #d9ead3;"> <th>Motor Tools (midday)</th> <th>Participation recommended for:</th> </tr> <tr> <td>Introduction to the EMSA Motor Systems Tool with subsequent training session.</td> <td>People interested in software tools for efficient motor systems design.</td> </tr> <tr style="background-color: #d9ead3;"> <th>Testing (afternoon)</th> <th>Participation recommended for:</th> </tr> <tr> <td>Third Testing Centres Network meeting, revision of IEC testing standards.</td> <td>Representatives of testing laboratories and standards making bodies.</td> </tr> </tbody> </table>		Policy (morning)	Participation recommended for:	Policy instruments for efficient motor systems; experience from the USA, energy management systems.	Policy makers and experts involved in policy making.	Motor Tools (midday)	Participation recommended for:	Introduction to the EMSA Motor Systems Tool with subsequent training session.	People interested in software tools for efficient motor systems design.	Testing (afternoon)	Participation recommended for:	Third Testing Centres Network meeting, revision of IEC testing standards.	Representatives of testing laboratories and standards making bodies.						
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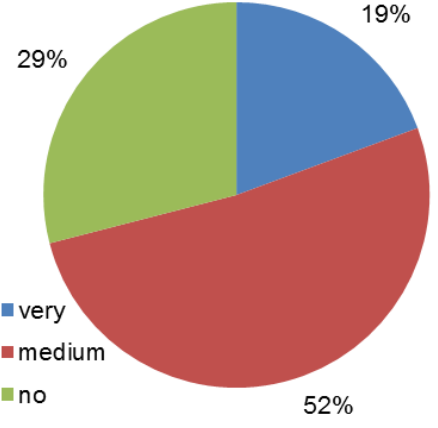
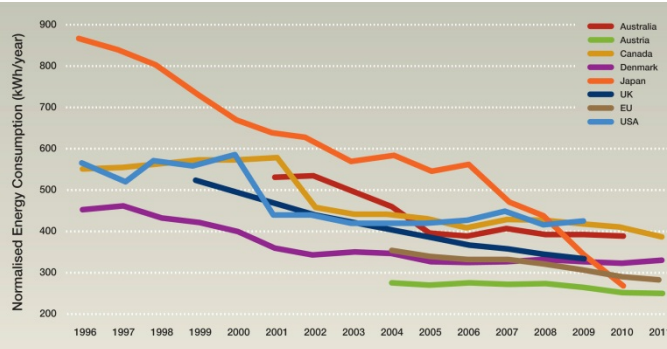

4	<p>ACEEE楼宇能源 夏令营将于 2012 年 8 月 11 日至 17 日在美国加利福尼亚州帕西菲克格罗夫举行。</p> <p>更多信息请见: www.aceee.org</p>	
5	<p>eceee 工业夏令营将于 2012 年 9 月 11 日至 14 日在荷兰阿姆斯特丹举行。</p> <p>更多信息请见: www.eceee.org/industry/</p>	
6	<p>第 11 界 VEM科技日将于 2012 年 9 月 25 日至 26 日在德国韦尼格罗德召开。本次科技日主题为“电力工程你将去哪里? 朝电力与驱动科技系统方向的转移。”</p> <p>更多信息请见: www.vem-group.com</p>	
7	<p>国际旋转设备会议——泵与压缩机将于 2012 年 9 月 27 日至 28 日在德国杜塞尔多夫举行。</p> <p>届时将会有 3 个论坛:</p> <ul style="list-style-type: none"> • 泵使用者国际论坛 • 压缩机使用者国际论坛 • 欧洲往复式压缩机论坛 <p>更多信息、注册以及程序安排请见: www.introequipcon.com</p>	

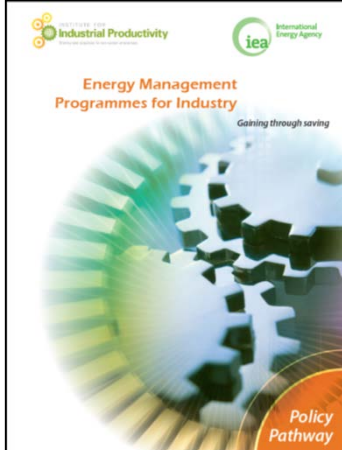
新闻		
8	<p>针对电动马达的 国际能效奖牌竞赛的规则正在制定过程中。规则草案将在未来几个月内分发征求公众意见。有兴趣对规则草案进行评论的朋友可以将他们的联系方式以及一段有关个人兴趣的简短介绍电邮至 awards@superefficient.org, 并加入邮件列表。</p> <p>超效设备与电器部署 (SEAD) 是 清洁能源部长会议 与能源效率合作国际伙伴 (IPEEC) 的一项倡议。</p>	
9	<p>IMS Research 正在邀请专家加入电机系统专家网络。如需更多的信息请联系 Alex Chausovsky: Alex.Chausovsky@ihs.com.</p>	

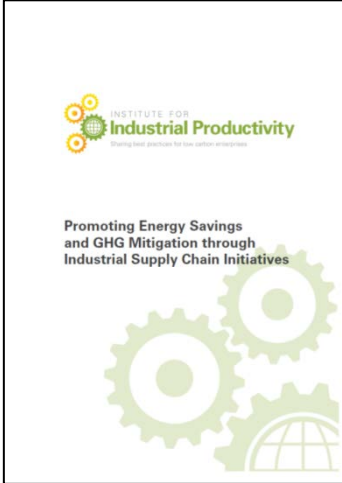
10	<p>瑞典 工业高耗能企业能效项目 最近进行了评估：参与此项目的 100 多个公司在 2004 年至 2009 年共节约了 1.45 兆度电能。项目的第二阶段将运行至 2014 年。</p> <p>更多信息请见：www.energimyndigheten.se</p>	
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技术标准		
11	<p>全球 IEC TC2</p> <ul style="list-style-type: none"> 12 号工作组讨论了有关在 IEC 60034-1 的修订中加入铭牌上显示产品登记号码的可能性。 28 号工作组修订了 IEC 60034-2-1 的测试标准草案。0.75 至 2000 千瓦三相电机的的首选测试方法为由剩余损失确定的空载损耗测定损失的总和。下一个 CDV 将于 2012 年秋季发布。 第 28 工作组 28 号工作组修订了变频器供电电动机测试标准 IEC 620034-2-3。必要的仪器使用被进一步明确的规定并将作为技术规定被发布。下一版草案将于 2012 年秋季发布。 31 号工作组回顾了关于 IEC 60034-30 中能效等级的评论。它将被修订为 IEC60034-30-1，针对 0.12 至 1000 千瓦、50 至 1000 伏的所有类型线馈电机，并包括 IE4 超级能效电机。此后将起草新的针对变频器供电电动机能效等级的 IEC60034-30-2。 <p>全球 IEC SC22G</p> <ul style="list-style-type: none"> 15 号工作组已经开始着手制定针对包括电动机和变频驱动在内的整套电机系统的能效国际标准。 	 <p>www.iec.ch</p> <p>如果你想要发送评论请联系你本国的国家委员会： www.iec.ch/dyn/www/f?p=103:5:0</p>
12	<p>欧洲 Cenelec TC22X</p> <p>6 号工作组在 2012 年 4 月 10 号发布了第一版针对电力驱动系统、电动机起动器电力电子及其驱动应用的能效标准的委员会草案。建议评论已于 2012 年 6 月 8 日</p> <p>请联系你本国的 CENELEC 国家委员会：</p>	 <p>www.cenelec.eu/dyn/www/f?p=104:5:1285492996237585</p>

4E & EMSA		
13	<p>EMSA 与 瑞典能源机构 于 2012 年的 5 月 9 日在瑞典斯德哥尔摩皇家理工学院合组织了一次研讨会。报告讲义可以在此下载： www.motorsystems.org/motor-events</p>	 <p>www.energimyndigheten.se/en/</p>

14	<p>新版本的用于优化电动机、转换器和传动装置集成系统的 电机系统工具 已在 2011 年 12 月发布。至今已有 600 人下载了此工具，根据反馈调研，此工具被广泛接纳。</p> <p>在 2012 年 12 月 4 日的电机峰会上将会有一场特别的培训课程。</p> <p>免费下载：www.motorsystems.org</p>	<p>Is the Tool useful for you?</p>  <p>■ very ■ medium ■ no</p>
15	<p>IEA 4E 实施协定中的 映射和基准测试附录 分析能源效率的提高。长期的研究结果显示了能效的进步并通过 国际合作 激发进一步努力。全世界的 冰箱：</p>  <p>www.iea-4e.org</p>	<p>映射和基准测试附录的主要发现已被提交至 2012 年 4 月的 清洁能源署 伦敦会议。</p>  <p>www.iea-4e.org</p>

发表文章																																
16	<p>国际能源机构与工业产能学院联合发表了名为“工业能源管理计划”的政策途径。</p> <p>实施能源管理计划的建议的行动清单如下：</p> <table border="1" data-bbox="263 1433 917 1780"> <tr> <td>计划</td> <td>1</td> <td>定义计划在政策框架中的作用</td> </tr> <tr> <td></td> <td>2</td> <td>设计实施计划</td> </tr> <tr> <td></td> <td>3</td> <td>完善行动计划并确保资源</td> </tr> <tr> <td>开展</td> <td>4</td> <td>提供机构援助</td> </tr> <tr> <td></td> <td>5</td> <td>推广计划和认识成果</td> </tr> <tr> <td>监督</td> <td>6</td> <td>确定测量的内容和方式</td> </tr> <tr> <td></td> <td>7</td> <td>评估遵守情况</td> </tr> <tr> <td></td> <td>8</td> <td>沟通结果和成果</td> </tr> <tr> <td>评估</td> <td>9</td> <td>确定评估的内容和方式</td> </tr> <tr> <td></td> <td>10</td> <td>修改、调整计划</td> </tr> </table>	计划	1	定义计划在政策框架中的作用		2	设计实施计划		3	完善行动计划并确保资源	开展	4	提供机构援助		5	推广计划和认识成果	监督	6	确定测量的内容和方式		7	评估遵守情况		8	沟通结果和成果	评估	9	确定评估的内容和方式		10	修改、调整计划	 <p>免费下载： www.iipnetwork.org</p>
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<p>17</p>	<p>工业产能学院发表了题为“通过工业供应链计划，促进节约能源与温室气体减排”的报告。 报告向我们展示了 10 个买家如何影响制造商和工业企业并将他们推向更高能源效率的研究案例。</p> <p>免费下载：www.iipnetwork.org</p>	
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如果你有任何疑问，请写信至 info@motorsystems.org。如果你正在你所在国家负责电机能效项目，请务必告诉我们！

来自瑞士苏黎世的最诚挚的问候

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Tel +41 (0)44 226 30 70

EMSA 电动马达附录，是国际能源署高效电气终端设备 **4E** 协议下的附录之一。目前，澳大利亚、奥地利、丹麦、荷兰、美国和瑞士都正在积极参与 **EMSA** 项目。同时，加拿大、法国、日本、韩国、南非、瑞典和英国也是 **4E** 参与国。**EMSA** 项目的第二阶段将持续至 2014 年。

如果你想订阅此通讯或者下载有关背景资料，请访问：
www.motorsystems.org/ems-newsletter。

如果你需要退订此通讯，请电邮至以下地址：
info@motorsystems.org 谢谢合作！

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Global Motor Systems Network




EMSA Newsletter no. 2/2012



Zurich June 2012

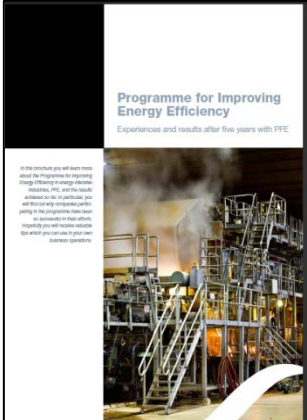
See you all at the Motor Summit 2012 in Zurich in December 2012!



1	<p>This is the latest edition of the Electric Motor Systems Annex (EMSA) Newsletter. We are happy to report that our Newsletter is well-received by 2'908 people from 75 countries. We appreciate the feedback and comments we received so far and are glad to hear back more.</p> <p>You can subscribe to the Newsletter in English, German, Chinese, Japanese and Russian: www.motorsystems.org/emsa-newsletter</p>	 <p>Thomas Burla[©]</p>
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Events																				
2	<p>The next Motor Summit will take place in Zurich Switzerland from 5 to 6 December 2012: Program overview</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d3d3d3;"> <th style="width: 33%;">Tuesday 4 Dec</th> <th style="width: 33%;">Wednesday 5 Dec</th> <th style="width: 33%;">Thursday 6 Dec</th> </tr> </thead> <tbody> <tr> <td>EMSA Workshops*</td> <td>MS'12 International Day</td> <td>MS'12 Swiss Day</td> </tr> <tr> <td>Policy</td> <td style="background-color: #ffffcc;">am session</td> <td style="background-color: #ffe4c4;">am session</td> </tr> <tr> <td>Motor Tools</td> <td colspan="2" style="text-align: center;">Lunch</td> </tr> <tr> <td>Testing</td> <td style="background-color: #ffffcc;">pm session</td> <td style="background-color: #ffe4c4;">pm session</td> </tr> <tr> <td></td> <td style="background-color: #ffffcc;">MS'12 Dinner</td> <td></td> </tr> </tbody> </table> <p><small>*Places are limited</small></p>	Tuesday 4 Dec	Wednesday 5 Dec	Thursday 6 Dec	EMSA Workshops*	MS'12 International Day	MS'12 Swiss Day	Policy	am session	am session	Motor Tools	Lunch		Testing	pm session	pm session		MS'12 Dinner		 <p>MOTOR SUMMIT 2012</p> <p>Detailed program and registration: www.motorsummit.ch</p> <p>The Motor Summit 2012 will bring together selected experts from research, federal and local government, utilities, motor manufacturers, OEMs, motor systems users and other interested parties.</p>
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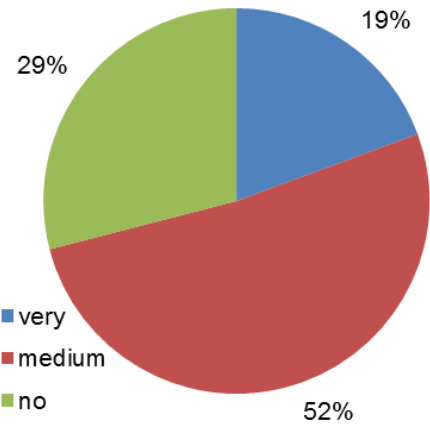
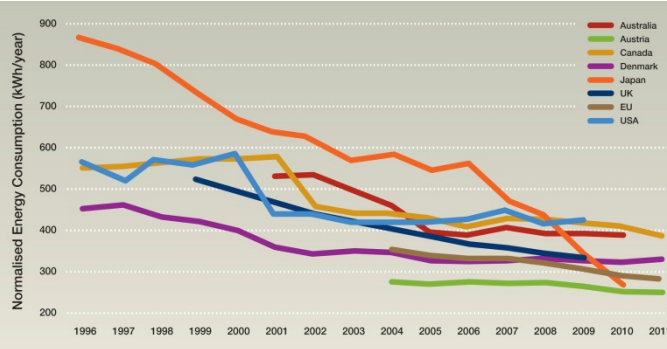

4	<p>The ACEEE Summer Study on Energy Efficiency in Buildings will take place on 12 - 17 August 2012 in Pacific Grove, CA. More information:</p>	 <p>www.aceee.org</p>
5	<p>The eceee Industrial Summer Study will be held from 11 to 14 September 2012 in Arnhem, the Netherlands. More information: www.eceee.org/industry/</p>	
6	<p>The 11th VEM Technical Day will be held on 25 - 26 September 2012 in Wernigerode, Germany. The subject will be: Quo vadis electrical engineering? The move towards power and drive technology systems. More information: www.vem-group.com</p>	
7	<p>The International Rotating Equipment Conference - Pumps and Compressors will take place from 27 - 28 September 2012 in Düsseldorf, Germany. There will be three forums:</p> <ul style="list-style-type: none"> • Pump Users International Forum • Compressor Users International Forum • European Forum for Reciprocating Compressors. <p>More information, registration, program: www.introequipcon.com</p>	

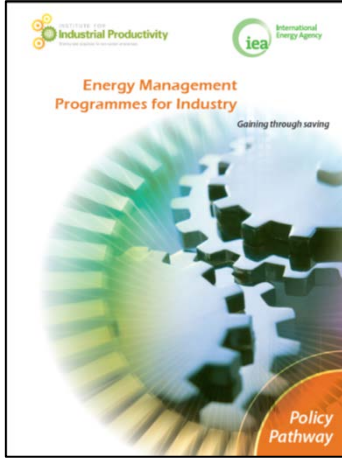
News		
8	<p>The rules for the SEAD Global Efficiency Medal Competition for Electric Motors are currently under development. A draft version of the rules will be distributed for public comment in the coming months. Parties interested in reviewing the draft rules should send their contact information and a brief expression of interest to awards@superefficient.org to be added to the mailing list. The Super-Efficient Equipment and Appliance Deployment (SEAD) is an initiative of the Clean Energy Ministerial and the International Partnership for Energy Efficiency Cooperation (IPEEC).</p>	
9	<p>IMS Research is inviting experts to join the Motor Systems Experts Network. For more information contact Alex Chausovsky: Alex.Chausovsky@ihs.com.</p>	 <p>www.imsresearch.com</p>

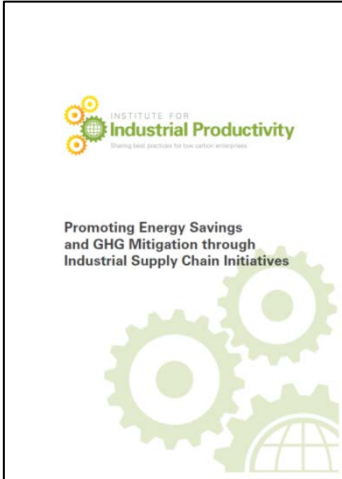
10	<p>The Swedish Programme for Energy Efficiency in Energy Intensive Industry (PFE) has recently been evaluated: 1,45 TWh/a of electricity was saved between 2004 - 2009 by 100 participating firms. The second phase of the program is running until 2014.</p> <p>More information: www.energimyndigheten.se</p>	
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Technical standards		
11	<p>GLOBAL IEC TC2</p> <ul style="list-style-type: none"> • WG12 has discussed the possibility of introducing in the revision of IEC 60034-1 a product registration number on the rating plate. • WG28 has revised the draft Testing Standard IEC 60034-2-1. The preferred testing method for 3-phase motors from 0.75 kW up to 2'000 kW is the summation of losses with stray load losses determined from residual loss. The next CDV will be published in the fall of 2012. • WG28 has revised the draft for the Testing of Converter-fed Motors IEC 60034-2-3. The necessary instrumentation has been more clearly specified and will be published as Technical Specification. The next draft will be published in the fall of 2012. • WG31 has reviewed the comments to the draft Efficiency Classes IEC 60034-30. It will be revised as IEC 60034-30-1 for all kinds of line-fed motors between 0.12 kW and 1000 kW, with 50 V up to 1000 V, and will include Super Premium motors IE4. Later the new standard IEC 60034-30-2 for efficiency classes of converter fed motors will be drafted. <p>GLOBAL IEC SC22G</p> <ul style="list-style-type: none"> • AG15 has started to work on an international standard for energy efficiency of Motor Systems Efficiency including motors and variable frequency drives. 	 <p>www.iec.ch</p> <p>If you would like to send comments contact your National IEC Committee: www.iec.ch/dyn/www/f?p=103:5:0</p>
12	<p>EUROPE Cenelec TC22X</p> <p>WG6 has published on 10 April 2012 a first committee draft Standard CLS 50xxx-2 on Energy efficiency for Power drive systems, motor starters, power electronics and their driven applications. Comments have been received until 8 June 2012.</p> <p>Contact your CENELEC National Committee:</p>	 <p>www.cenelec.eu/dyn/www/f?p=104:5:1285492996237585</p>

4E & EMSA		
13	<p>EMSA and the Swedish Energy Agency organized a workshop on 9 May 2012 in Stockholm Sweden, at the Royal Institute of Technology. Presentations are available</p>	 <p>www.energimyndigheten.se/en/</p>

14	<p>at: www.motorsystems.org/motor-events</p> <p>The new version of the Motor Systems Tool for optimizing an integrated system of motor, converter and transmission has been published in December 2011. Since then 600 people have downloaded it. The Motor Systems Tool is well received according to a feedback survey.</p> <p>A special training session will be held at the Motor Summit in Zurich on 4 December 2012.</p> <p>Free download: www.motorsystems.org</p>	<p>Is the Tool useful for you?</p>  <p>■ very ■ medium ■ no</p>
15	<p>The IEA 4E Implementing Agreement's Mapping & Benchmarking Annex analyses energy efficiency improvements. The results of the long term research show progress in efficiency and stimulate further efforts through international cooperation. The example of refrigerators around the world:</p> 	<p>Major findings of the Mapping & Benchmarking Annex were submitted to the Clean Energy Ministerial Meeting in London in April 2012.</p>  <p>www.iea-4e.org</p>

Publications																										
16	<p>The International Energy Agency and the Institute for Industrial Productivity published a Policy Pathway "Energy Management Programmes for Industry". The proposed action checklist for implementing an energy management programme is:</p> <table border="1" data-bbox="263 1467 922 1836"> <tr> <td rowspan="3">PLAN</td> <td>1</td> <td>Define the programme role in the policy framework</td> </tr> <tr> <td>2</td> <td>Design the programme</td> </tr> <tr> <td>3</td> <td>Develop the action plan and secure resources</td> </tr> <tr> <td rowspan="2">IMPLEMENT</td> <td>4</td> <td>Provide institutional assistance</td> </tr> <tr> <td>5</td> <td>Promote the programme and recognise achievements</td> </tr> <tr> <td rowspan="3">MONITOR</td> <td>6</td> <td>Establish what to measure and how</td> </tr> <tr> <td>7</td> <td>Assess compliance</td> </tr> <tr> <td>8</td> <td>Communicate results and outcomes</td> </tr> <tr> <td rowspan="2">EVALUATE</td> <td>9</td> <td>Determine what to evaluate and how</td> </tr> <tr> <td>10</td> <td>Revise and adapt the programme</td> </tr> </table>	PLAN	1	Define the programme role in the policy framework	2	Design the programme	3	Develop the action plan and secure resources	IMPLEMENT	4	Provide institutional assistance	5	Promote the programme and recognise achievements	MONITOR	6	Establish what to measure and how	7	Assess compliance	8	Communicate results and outcomes	EVALUATE	9	Determine what to evaluate and how	10	Revise and adapt the programme	 <p>Free download: www.iipnetwork.org</p>
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17	<p>The Institute for Industrial Productivity released the report "Promoting Energy Savings and GHG Mitigation through Industrial Supply Chain Initiatives".</p> <p>The report presents 10 case studies on how buyers influence manufacturers and industrial companies pushing them towards more energy efficiency.</p> <p>Free download: www.iipnetwork.org</p>	
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If you have any questions please write to: info@motorsystems.org. 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. The second EMSA program phase is running until 2014.

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