

# Global Motor Systems Network



**EMSA Newsletter - Zurich May 2020 - [www.motorsystems.org](http://www.motorsystems.org)**

Dear Nathalie,

Welcome to the latest edition of the Electric Motor Systems Annex ([EMSA](#)) Newsletter.

## Events

### **Topmotors Webinar: «New global motor standards move the market» on 10 June**

How do new technologies influence markets, standards and regulation? Where will the new project «[Coordination and Alignment of IEC and ISO Standards for Energy Efficient Electric Motor Driven Systems](#)» lead the industry to?



The webinar will be held by Conrad U. Brunner, who has been working in the IEC TC2 (Rotating machinery) for many years and received the «IEC 1906 Award» for «10 years of outstanding work» within this field.

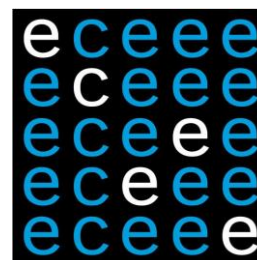
- Date: **Wed, 10 June 2020**
- Time: **10:00 AM - 11:00 AM CEST**
- **[Registration](#)** (free of charge)

[More information](#)

### **Industrial Efficiency 2020 - decarbonise industry goes digital!**

Due to the Covid-19 situation, the Industrial Efficiency 2020 conference, organized by eceee (European Council for an Energy Efficient Economy), will be turned into a completely virtual event. It will take place on 14 - 17 September 2020.

Details will follow on: [www.eceee.org/industry/](http://www.eceee.org/industry/)



# MOTOR SUMMIT 2020

## International

**Next Motor Summit International on 18 – 19 November 2020: in Zurich: programme soon available!**

The next Motor Summit International will take place on 18 – 19 November 2020 in Zurich, Switzerland. After closing the first ever call for abstracts successfully, the conference programme will be available early June!

Stay tuned: [www.motorsummit.ch/2020](http://www.motorsummit.ch/2020)

### News

#### USA regulatory updates

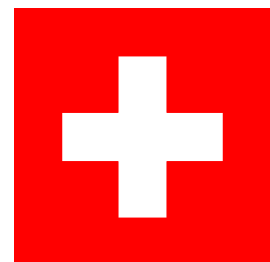
- **Electric motors:** a [pre-publication request for information](#) pertaining to energy conservation standards for electric motors was published on 1 May 2020.
- **Small motors:** a [notice of proposed determination](#) pertaining to energy conservation standards for small electric motors was published on 30 April 2020, proposing not to update the current standards. Comments are accepted until 29 June 2020.
- **Commercial and industrial fans:** the US Department of Energy received a petition from industry stakeholders to establish a test procedure for fans based on the AMCA 214 test standard. The [notice of petition](#) was published on 23 April 2020. Comments are accepted until 26 May 2020.
- **Air compressors:** a [final rule](#) was published on 10 January 2020 establishing minimum requirements concerning the efficiency of compressors. Compliance is required on and after 10 January 2025.
- **Pumps:** according to the [final rule](#) from 2016, compliance with the new energy conservation standards is required on and after 27 January 2020.



[More information](#)

#### Switzerland synchronizes motor requirements with EU

The Swiss government decided on 22 April 2020 to synchronize its Minimum Energy Performance Standards (MEPS) for electric motors with those of the European Union, as set out in Commission Regulation (EU) 2019/1781. The new MEPS will be effective from 1 July 2021. A transition period of one year will be allowed between 1 July 2021 and 30 June 2022 for motors not reaching the more stringent MEPS level applicable from 1 July 2021, if they were put onto the market before 1 July 2021.



During this transition period, motor retailers are still allowed to sell such motors to other retailers or end users.

[More information](#)

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## **The CAISEMS project is accelerating (Coordination and Alignment of IEC and ISO Standards for Energy Efficient Electric Motor Driven Systems)**



Since the IEC Advisory Committee on Energy Efficiency (ACEE) has launched the CAISEMS project last September in Tokyo, the project group has secured 60 members from various IEC and ISO TCs to collaborate.

A first set of Background Papers has been circulated that evaluate the existing 38 energy efficiency related standards from IEC and ISO. Also, a first draft for a Work Plan was presented that clarifies the path to launch a Joint Technical Body between IEC and ISO and define a New Work Item Proposal that eventually can be a Basic Standard. The new overarching standard will include boundary definitions, testing standards, operating points, efficiency classification, common terminology, etc. The goal is to define the efficiency of a system as wire-to-water or wire-to-air and to supply the respective testing and calculation methods as well as an efficiency classification.

The next physical meeting of the CAISEMS project group will be on 20 November 2020 in Zurich, as a side-event to the Motor Summit.

For more information, contact: Conrad U. Brunner [cub@impact-energy.ch](mailto:cub@impact-energy.ch)

[Download project brief](#)

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## **Global Round Robin for converters: keep testing during Covid-19**

The international Round Robin for Converters to support the revision of the testing methods in the coming 2nd edition of the IEC 61800-9-2 standard has also been faced with challenges due to the worldwide Covid-19 crisis. Testing slowed down or was temporarily stopped during the lockdown period and shipping costs in the last months have increased up to three times the price before the pandemic. Nevertheless the testing pace is picking up again with the worldwide ease of the Covid-19 measures and the test results are coming in at a steady pace again. While there will be a slight delay for the complete project, the management team is optimistic to be able to present some first results at the Motor Summit in Zurich at the end of this year.



For more information, contact Sandie B. Nielsen: [sbn@teknologisk.dk](mailto:sbn@teknologisk.dk)

[Download project overview](#)

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## New EMSA members: Sweden and the European Commission

After Sweden in 2019, the European Commission has recently joined the 4E Electric Motor Systems Annex in 2020, to collaborate on policy and technical issues related to electric motor systems. EMSA welcomes the latest two new members!

[More information](#)

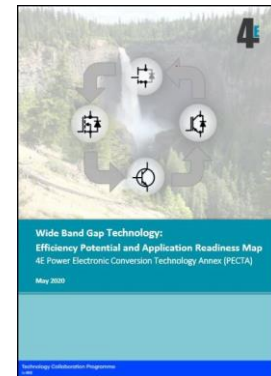


## Publications

### New report on Wide Band Gap Technology: Efficiency Potential and Application Readiness Map

The IEA TCP 4E PECTA – the Power Electronic Conversion Technology Annex - has published a Wide Band Gap (WBG) Technology: Efficiency Potential and Application Readiness Map. The report contains a first estimate of the energy saving potential by the use of WBG in important end-use applications like road transport electrification, wind and PV energy generation, datacenters and power supply for electronic appliances. It shows the predicted technology readiness of different devices and lays out the first, preliminary ways of possible regulations expediting the market entrance of Wide Band Gap based applications.

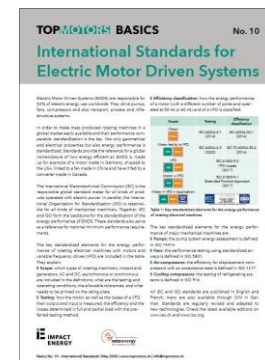
[Download report](#)



### Topmotors BASICS: International Standards for Electric Motor Driven Systems

Electric Motor Driven Systems are responsible for 53% of electric energy use worldwide. They drive pumps, fans, compressors and also transport, process and infrastructure systems. In order to make mass produced rotating machines in a global market easily available and their performance comparable, standardization is the key. There are a number of international IEC and ISO standards relevant for electric motor systems. This one-page document gives a short overview on the essentials.

[Download document](#)



Best regards,

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**EMSA is the Electric Motor Systems Annex of the International Energy Agency's Technology Collaboration Programme on Energy Efficient End-use Equipment 4E. Currently Australia, Austria, Denmark, European Commission, Netherlands, Sweden, USA and Switzerland participate actively in EMSA. Canada, China, France, Japan, Korea, New Zealand and the United Kingdom participate in other 4E Annexes.**

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