



EMSA Electric Motor Systems Annex

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Minutes of the Public Launch

Date	24 November 2008
Time	14 00 to 17 30
Venue	Zurich Switzerland Glockenhof Conference Center, Room London, 1 st floor Side Event of Motor Summit 2008
Participants	Session Chair: Roland Brüniger Interested parties for IEA Motor Systems Annex. Present: 46 persons representing 16 countries and international organizations.
Distribution	Participants, 4E ExCo Chair, Vice Chair, OA (Hans-Paul Siderius, Shane Holt, Mark Ellis, Lloyd Harrington), Other interested countries: Finland, France, Korea, Sweden.
Goal	To inform the interested public on 4E and EMSA To invite other countries to participate To clarify the next steps in the Tasks

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1 Welcome, goal of the meeting, introduction to 4E

Roland Brüniger welcomes the participants in the room and thanks everybody for interest and active cooperation in the Electric Motor Systems Annex (EMSA).

The IEA Implementing Agreement Efficient Electrical End-Use Equipment 4E has been officially launched at the 4E ExCo meeting on the 14/15 April 2008 in Paris with Australia, Austria, Denmark, France, Korea, Netherlands, Switzerland and USA as starting members. At the ExCo meeting in Washington DC on 23/24 October 2008 also Canada, Japan, UK and South Africa have been invited to join 4E.

Industries support is most welcome and also a formal participation is principally possible. Besides the fact that the EXCO must approve the participation of an industry, there is a special set of IEA rules for industry to become IA members (without the right to vote).

Hans-Paul Siderius (NL) has been elected Chair, Shane Holt (Australia) Vice Chair and Mark Ellis (Australia) 4E Operating Agent. Ad interim (until the end of 2008) Lloyd Harrington is acting 4E OA.

The 4E has is now online with <http://iea-4e.org> and has its own logo:



The following 4E Annexes have been decided so far (with the respective lead countries):

- Mapping and Benchmarking (UK)
- Set top Boxes (USA)
- Motor Systems (Switzerland)
- Standby Power (Australia)
- Lighting (France)

The ExCo has accepted the plan for an Electric Motor Systems Annex (dated 3rd October 2008) including its tasks, budget and financing for 1.11.2008 - 31.10.2011.

Switzerland is the lead country for EMSA in the IEA 4E ExCo. Roland Brüniger will be the Country Representative (CR) on behalf of the Swiss Federal Office of Energy (SFOE). At the same ExCo meeting Conrad U. Brunner was appointed EMSA Operating Agent for the period 1.11.2008 until 31.10.2011.

2 Introduction to Electric Motor Systems Annex

Conrad U. Brunner explains the development of the work plan for EMSA so far. Formal participants are now: Australia, Austria, Denmark, Switzerland and UK, Japan and South Africa are in the process of clarifying the formal participation. Discussions are ongoing with Brazil, Canada, China, Finland, France, Sweden, USA, etc.. Industry participation is welcome in many of the tasks.

EMSA is now also online with www.motorsystems.org.

The scope includes core motor systems in pumps, fans, compressors and material handling & processing in industry, infrastructure systems and large buildings. The draft consists of work in 9 Tasks A to I. Due to limitations in resources and budget the Tasks D and H have not been activated so far and will start later. EMSA has a proposed total budget of circa 0.7 million € (cash and in kind) over the first 3 years.

Tasks	Countries	Australia	Austria	Denmark	Japan	South Africa	Switzerland	UK
OA	Operating Agent							
A	Implementation Support & Outreach							
B	Technical Guide for Motor Systems							
C	Testing Centers							
D	Instruments for Coherent Motor Policy	*	*					
E	Training & Capacity Building							
F	Energy Management in Industry				*	*		
G	New Motor Technologies							
H	Total Motor Systems Integration							

Task Leader
 Participant
* Possible Task Leader

later

3 Presentation of the Tasks A to H

Task A: IMPLEMENTATION SUPPORT & OUTREACH

Task leader Conrad U. Brunner, Switzerland

Task A will make the results of EMSA available to all countries, especially in target economies (developing countries with large and/or growing industry and electricity consumption from motor use). Industry support is welcome for the outreach (conferences, publications, web tools, et cetera). Build up of database for motor sales will be part of this Task. Two annual meetings of all Task leaders are planned to coordinate the work.

Task B: TECHNICAL GUIDE FOR MOTOR SYSTEMS

Task leader Hans Andersen, Denmark

Will profit from Danish experience with "Little blue books", will coordinate printed material and PDF (update faster possible) and tools in web applications. The material will be focused on specific target audiences and their needs. Task B will provide material to be used in Task E. IEC 60034-31 Guide (draft CD) will be available to Task leader for coordination.

Task C: TESTING CENTRES

Task leader Sarah Hatch, Australia (represented by Hugh Falkner):

Coordination with APP testing experience, Australian check-testing for compliance and IEC global Round Robin with over 20 laboratories (results by mid 2009 available). Task has special importance for Europe in implementing EuP MEPS. To be decided later whether only two year project duration is enough.

Task D: INSTRUMENTS FOR COHERENT MOTOR POLICY

Task leaders Konstantin Kulterer, Austria and Sarah Hatch Australia (start delayed).

Electric Motor MEPS Guide (Boteler, Brunner, de Almeida, Doppelbauer, Hoyt), first preliminary version published in November 2008.

Task E: TRAINING & CAPACITY BUILDING

Task leader Hans Andersen, Denmark:

Capacity building will depend on material produced in Tasks B, D and G. Task audience to be defined and coordinated with Task B.

Task F: ENERGY MANAGEMENT IN INDUSTRY

Task leader, Task leader to be determined (Frank Hartkamp if Netherlands returns to EMSA)

Integration of ongoing work on Energy management Standards in CENELEC and ISO: Audits, benchmarking and Energy Efficiency Service Organizations.

Task G: NEW MOTOR TECHNOLOGIES

Task leader Charles Gaisford, UK:

Evaluation of the energy performance and comparison of new and recently available high efficiency motor technologies beyond AC induction motors, for variable and fixed speed applica-

tions, with AC induction motors including those under variable speed control. The outputs will inform the development of testing and classification standards. Coordination with ongoing IEC 60034-2-3 work. Rob Boteler mentioned a paper on new high efficiency motor technologies that has been proposed for the IEEE/Pulp & Paper Conference in June 2009 in Birmingham, USA.

Task H: Task leader Charles Gaisford, UK: Task to be defined later.

4 Activities of new partners

- Brazil: George Soares, Electrobras. Brazil as non-IEA-member is interested for cooperation in EMSA. Will need instructions on 4 steps for participation.
- Canada: Terry Brennan, Natural Resources, is interested to participate. Today involved in IE3 coordination with USA, research on variable frequency drives (Pierre Angers, Hydro Quebec), small motors. Is interested also in Task G new motor technologies.
- China: Zhang Xin, CNIS is personally interested. China has many standards, is active in APP motor projects, and is currently planning to adopt new IEC standards. China decision will be made by NDRC. Interested to cooperate in Task C, D and E.
- South Africa: Bipath Minnesh, SANERI explains South Africa is new democracy, heading for election year. Interested in EMSA, but no decision on participation.
- USA: Rob Boteler, Emerson and NEMA, interested. So far EMSA has US-EPA (Christopher Kent) participation, no DOE representation.
- France: Ademe has nominated new contact person Frederic Streiff, but no activity as of now.

5 Time line and Next steps

4E ExCo decision on EMSA 23/24 October 2008 in Washington DC

Formal MS project start 1 November 2008

Spring 2009 Next EMSA meeting

- around March 2009 in Kopenhagen Denmark (Tasks B & E)
- and/or around April 2009 in Paris France (EE Global)

Next 4E ExCo 27/28 April or 11/12 May 2009 in Paris France

To do list until 31 January 2009:

- New countries** Designate national contact person and institution: Brazil, China, etc.
(contact: roland.brueeniger@r-brueeniger-ag.ch)
Decide formally on EMSA participation, enter participation routine with IEA
(contact carrie.pottinger@iea.org)
Decide on active participation in individual Tasks
(contact OA cub@cub.ch)
- Interested country** Decide on formal 4E and/or EMSA participation: Canada, France, Japan, South Africa and UK
(contact carrie.pottinger@iea.org)
- EMSA members** Submit formal EMSA participation to IEA:
Australia, Austria, Denmark, Switzerland, UK
(contact carrie.pottinger@iea.org)
- Task leaders** Detail work plan of 2009 for their respective Task, send to OA:
- Deliverables
 - Cash budget in coordination with OA
 - In kind budget in coordination with Task participants
- R. Brüniger CR** Inform industry on specific IEA rules for participation if asked
Inform new possible members of IEA 4E of necessary formal steps

C.U. Brunner OA Minutes 24 Nov 2008 (done)
Format for official EMSA participation letter to IEA (done)
Plan 2009 of Task A
Schedule of working meeting and events in 2009
Contracts with participant countries, invoice 2008/09 fee

List of participants

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Separate Annex

- Slides of the meeting (PDF): Roland Brüniger/Conrad U. Brunner