

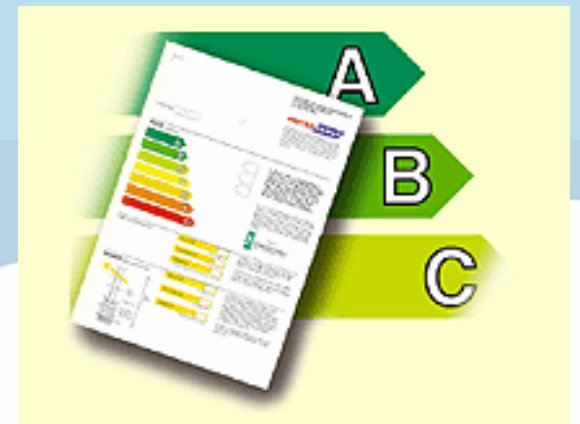
4E

IEA Implementing Agreement
Efficient Electrical End-use Equipment

Establishment of an Implementing Agreement for a Co-operative Programme on Efficient Electrical End-Use Equipment

IEA CERT meeting
21 February 2008

Presentation by
Interim ExCo
Ture Hammar

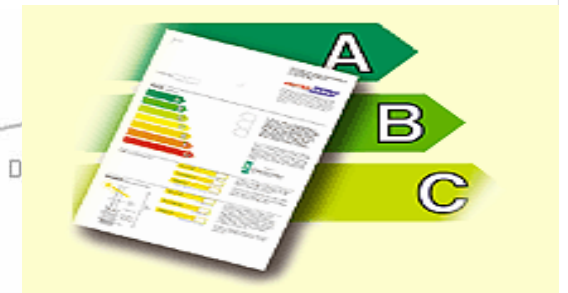


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Background in Energy Efficiency Priority

- Energy efficiency of products is top priority
 - Huge cost-effective win-win-win potential
 - Benefits for life cycle economy, security of supply and environment
- Call for action at G8 summits Gleneagles, Heiligendam...
- Activities in many IEA and non-IEA countries
- Opportunities in international co-operation
- CERT considerations in 2006 & 2007 of a Co-operative Programme on Efficient Electrical End-use Equipment (4E)



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Preparing a proposal for a 4E Implementing Agreement

- Cost-effective potential in energy efficiency measures revealed in IEA research and analysis
- Chair of EUWP and IEA Secretariat identified need for governmental policy mechanism
- Definition workshop 9 March 2007 included 21 representatives
- 1st Interim ExCo meeting 7 July 2007, designated members and chair (Denmark and Netherlands)
- 2nd Interim ExCo meeting 8-9 November 2007 considered scope of work and the first annexes (research projects)
- Aiming at 4E Implementing Agreement in IEA – process with EUWP, CERT, Governing Board



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Objective & deliverables for a 4E Implementing Agreement

- Objective:
 - to encompass international efforts in adopting governmental policies
 - to create a forum for countries and stakeholders, promoting 4E, exchanging and developing experience, and facilitate international coordination
 - to support this by collecting information re technologies, programmes, projects, etc.
- Deliverables
 - Forum activities (event every ½ year)
 - Specific annexes on 4E
 - Considerations for international action



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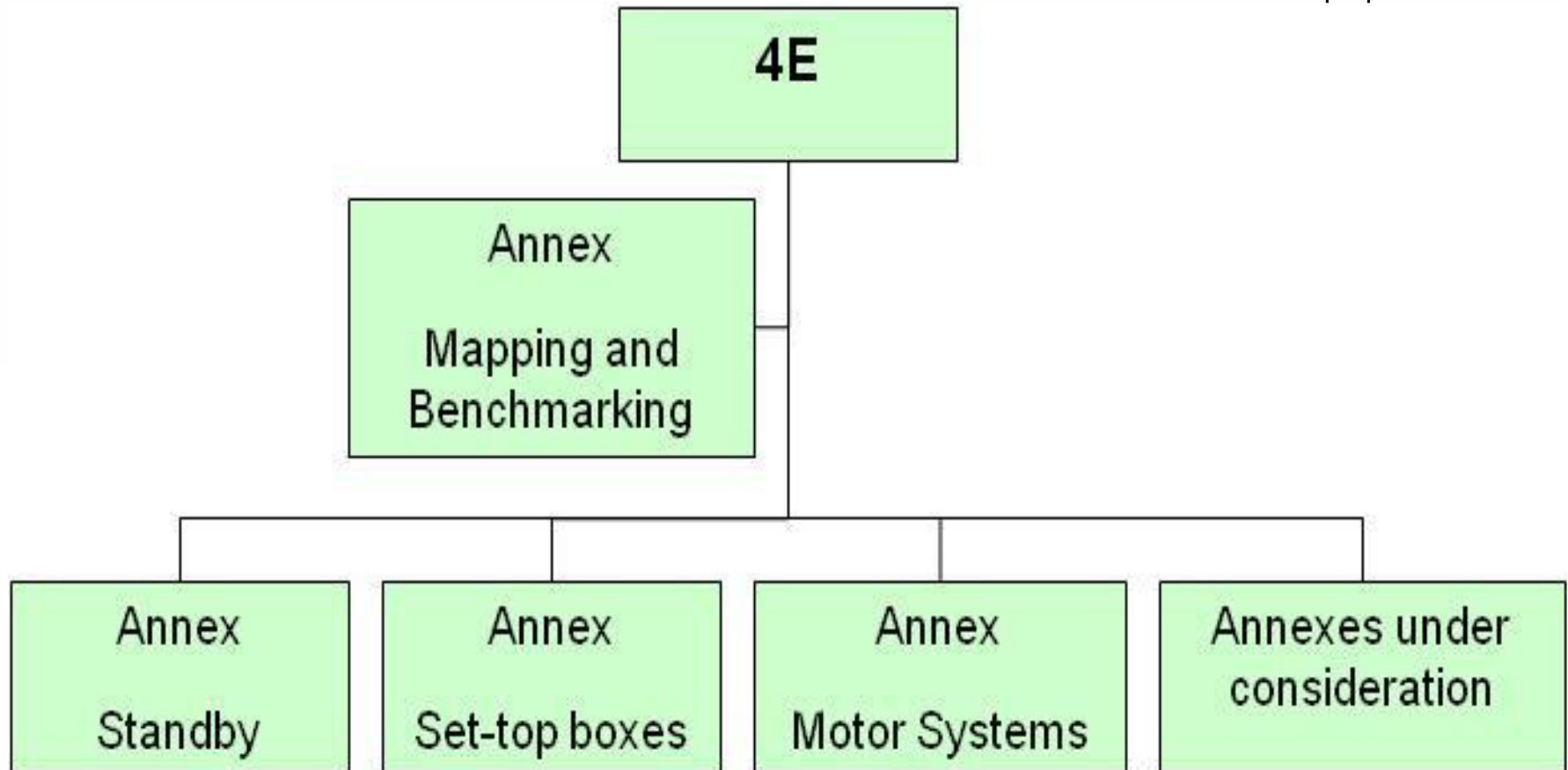
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Co-ordination with on-going activities

- Integrate activities of Group for Energy Efficient Appliances (GEEA)
- Build on progress of
 - CLASP
 - International Task Force for Sustainable Products (ITFSP)
 - Energy Star, eco-design, APP, etc.
 - Parallel work in other implementing agreements
- Support & complement international co-operation
 - non-member countries & int. organisations
 - International Energy Efficiency Platform (proposed)



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Interested parties in Interim ExCo: Australia, Austria, Belgium, Canada, Czech Rep., Denmark, France, Japan, Korea, Netherlands, Slovak Rep., UK, USA, Sweden, Switzerland, European Commission,...



Member country interest (preliminary)

9 November 2007

C = committed, I = interested, green = lead

Annex	A	AU S	B	CH	CZ	DK	EC	F	JP	KOR	KRO	NL	SR	UK	US
1. Mapping and benchmarking	I	C	C	I	I	C	I	I	C			C	I	C	I
2. Standby power		C				C	I		I	C				I	C
3. Motor systems	I	C		C		C		I	I	I				C	
4. Set-top boxes		I		C		I	I		I	I				I	C
5. (Commercial) Lighting		I	I		I			C	I				I		
6. Supply chain agreements	I	C	I	I		I		C		I		I	I	C	
A															
7. EE product service systems	C		C			I		I		I				I	I

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Annex 1

Mapping and Benchmarking

- **Scope**
 - Practical information on 4E performance, metrics, market, and policy instruments
- **Activities**
 - Mapping and benchmarking
 - Communication, outreach and policy support
- **Deliverables**
 - Year 1
 - Information on + 10 major 4E products
 - Report on global benchmark standards
 - Interface with ITFSP, APEC, ESIS, GEEA, Energy Star, CLASP, SEEEM (motors), IEA (appliance standards), etc.
 - Year 2 and after
 - Extend scope & refine information
 - Develop knowledge of global standards mechanisms
 - Increased involvement of governments and stakeholders



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Annex 1 Mapping and Benchmarking (continued)

- **Time line**
 - Activities should cover 5 years 2008-2012
- **Participants**
 - All members of the ExCo are expected to participate
- **Budget**
 - To be further settled by the ExCo
 - Budget may be combined with the ExCo funds
 - Tentative basic contribution is 10 k€ per participant per year
 - Additional in-kind contributions by individual participants are expected

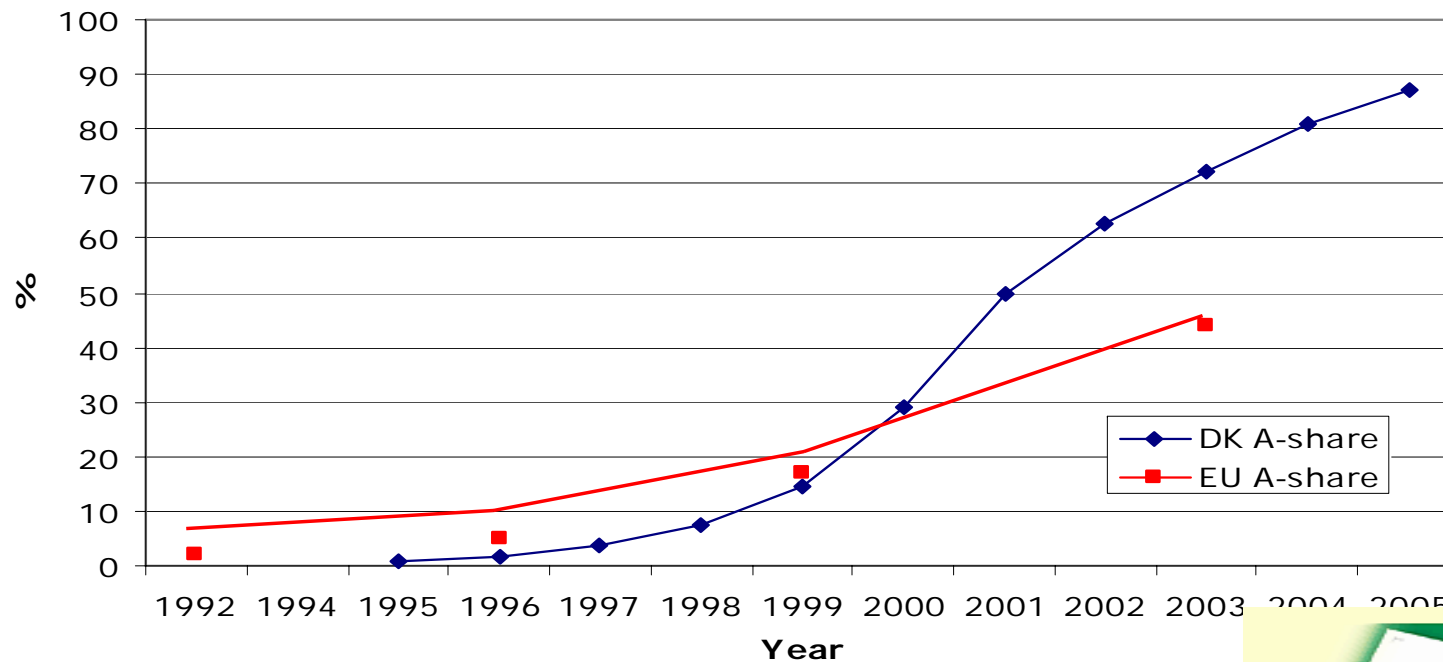


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Impact of labelling & campaigns in Denmark (compared to EU-average)

Market share of A-labelled cooling appliances in the EU and
DK



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Annex 2 Standby power

- **Scope**
 - Coordinate in support of standby power policies
- **Activities**
 - Policy support
 - Draw on existing policy development work (APEC, APP, eco-design, etc.)
 - Analyse and structure approaches (modes, groups, functions, etc.)
 - Promotion and monitoring of innovative technology solutions nationally/international
 - Information collection and dissemination
 - Countries data collection for core group of 4E
 - Workshops for collection of data and measurement training.
 - Dissemination via website, workshops, etc.
 - Research and guidelines on methodologies



Annex 2 Standby power (continued)

- **Deliverables**

Policy support

- Initial country reports on options
- 3 regional workshops (EU, USA, ASIA)
- Review standards, involve stakeholders, etc.

Information and dissemination

- Organise workshops/conference/training etc.
- Publish data, methodology, core list of products, surveys, etc.

- **Time line**

- Activities cover 5 years 2008-2012

- **Participants (tentative)**

- Lead: Australia (with support from US). Denmark, UK, Korea, France, Netherlands, Switzerland.

- **Budget**

- Budget outline corresponds to activity plan, average 200 k€ annually.

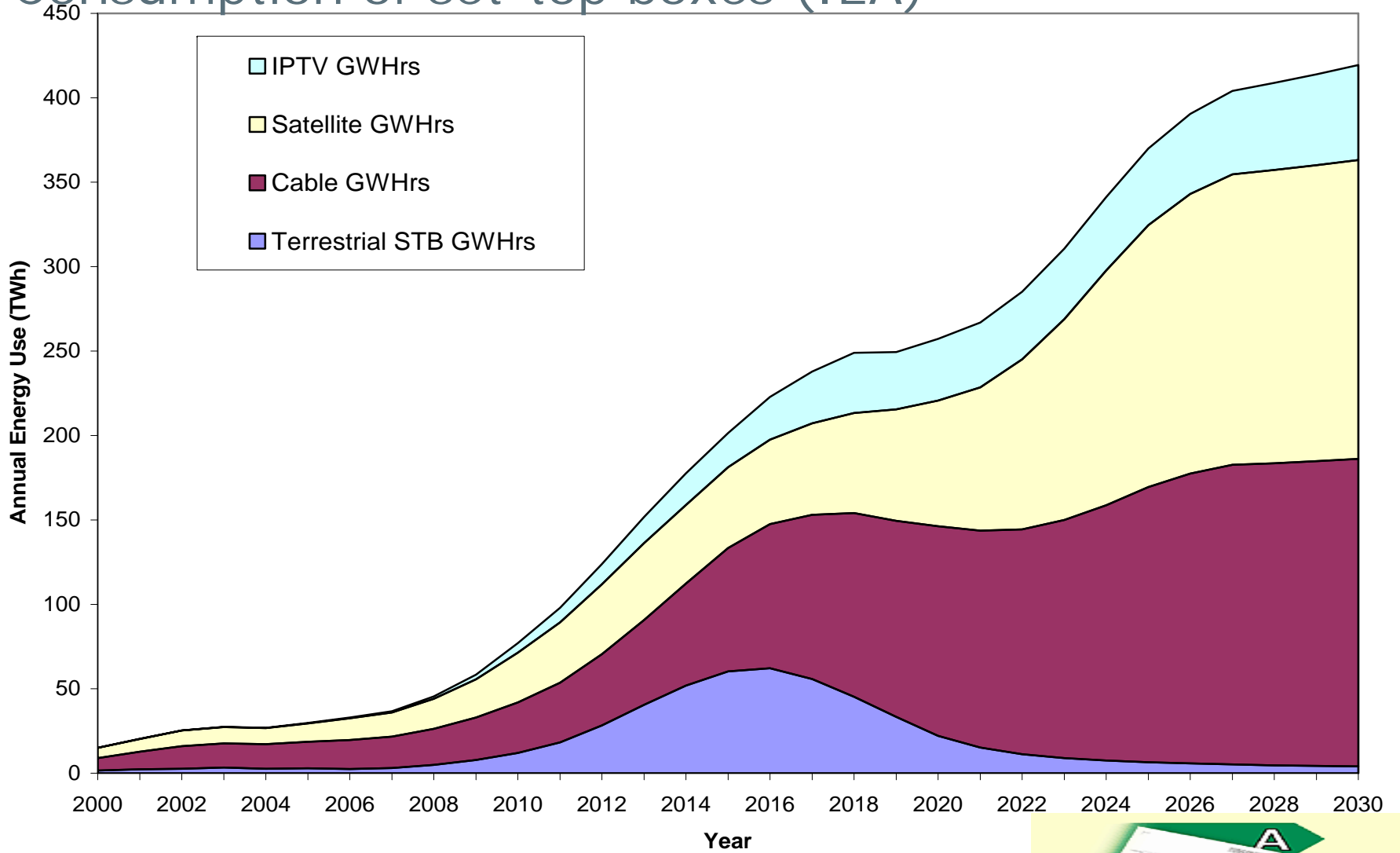


Annex 3 Set-top boxes (STBs)

- **Scope**
 - Focus on STBs, perhaps also related network
- **Activities & deliverables**
 - Development of a test procedure
 - Financial and regulatory approaches
 - Demonstrate new, energy-saving technologies
 - IEA sponsor biennial forum on Energy-Efficient Set-Top Boxes and Networks
 - Establish technical specifications
 - Database of Efficient Set-Top Boxes and Components
- **Time line**
 - Activities cover 5 years 2008-2012
- **Participants**
 - Lead: US. IEA member countries
- **Budget**
 - To be settled



Consumption of set-top boxes (IEA)



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Annex 4 Motor systems

- **Scope**
 - Promotion of 4E motors and systems
- **Activities & deliverables**
 - Global 4E motor network
 - Database, technical standards, test centres
 - Policy guidelines
 - Energy management programmes
 - Training, capacity building
 - New technologies
- **Time line**
 - Activities cover 5 years 2008-2012
- **Participants**
 - Lead: Switzerland. Australia, Austria, Denmark, Korea, US
- **Budget**
 - Average 300 k€ annually, including substantial in-kind contributions



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Annexes under consideration

- **Lighting**
 - waits for results of on-going studies
 - lead: France
- **Supply Chain Agreements**
 - may be part of Annex 1 (benchmarking)
 - lead: UK
- **Energy Efficient Product/Service Systems**
 - elaborations continue
 - lead: Austria



4E	2008				2009				2010				2011				2012			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ExCo meetings		*		*		*		*		*		*		*		*		*		*
Appoint operating agents																				
Consider new annexes																				
Mapping and benchmarking																				
1.1. Information framework																				
1.2. Criteria																				
1.3. Monitoring/review process																				
1.4. Initial subtasks																				
2.1. Information tools (web etc)																				
2.2. Channels for co-operation																				
3.1. Est. Information ressource																				
3.2. Report on global standards																				
3.3. Agreements on inf. coop.																				
4.1. Extend scope																				
4.2. Refine information																				
4.3. Global standards sharing																				
4.4. Increase awareness																				
Standby power																				
1.1. Options report				r																
1.2. 3 regional workshops				*		*		*												
1.3. Final report								r												
2.1. Review standards																				
2.2. Iden./liaise w. stakeholders																				
2.3. Annual workshops/conf.				*				*				*				*				*
3.1. Methodology/core prod.list				r																
3.2. Training workshops			*			*				*				*				*		
3.3. Collate and publish data																				
4.1. Guidelines on methodologies																				
4.2. Collate and publish studies																				
Set-top boxes																				
1.1. Develop test procedure																				
1.2. Financial/regulatory approach.																				
1.3. Demonstrate new technologies																				
1.4. Biennial forum				*						*										
1.5. Technical specifications																				
1.6. Database on EE-STB																				
Electric motor systems																				
1.1. Workshops			*		*												*			
1.2. Motor database consolidated												p								p
1.3. Technical guide												p								
1.4. Testing centers network											p									
1.5. Instrumens for motor policy																				p
1.6. Training/capacity build.																				
1.7. Tools and guides											p									p
1.8. Energy management - industry				r				r				r				r				r
1.9. New motor technologies																				p
2.0 Progress and final report												r								r

*: meeting
p: published report
r: report

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2008 schedule related to 4E

- **CERT 21 February 2008**
- **IEA/ITFSP workshop on EE compliance 28-29 February 2008**
- **IEA Governing Board 12 March 2008**
- **Signatory process for 4E (if approved) March-April**
- **Meetings in India on standby etc. early April 2008**
- **1st 4E ExCo meeting Paris 14-15 April 2008**

Thank you!

