



IEA Implementing Agreement  
on  
**Efficient Electrical End-use Equipment**  
***(4E)***

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## Overview of the presentation

- Energy Efficiency = Priority
- Objective and deliverables
- Co-ordination with ongoing activities
- Participating countries
- Structure
- Annexes
  - Mapping&Benchmarking
  - Motor Systems
  - Standby
- Website

# Background: Energy Efficiency = Priority



- Energy efficiency of products is top priority:
  - Huge cost-effective win-win-win potential
  - Benefits for economy, security of supply and environment
- Call for action at G8 summits Gleneagles, Heiligendam, Hokkaido.
- Activities in many IEA and non-IEA countries.
- Opportunities in international co-operation:
  - Clear goals and road maps make policies better predictable for industry,
  - cheaper to implement (by countries and industry),
  - and more effective

# 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
  - Specific annexes on 4E
  - Considerations for international action

**4E is committed to support global agreements on defining energy efficient products**

# Co-ordination with on-going activities



- Integrate activities of Group for Energy Efficient Appliances (GEEA).
- Build on progress of:
  - APP (Asian Pacific Partnership) on Clean Development&Climate
  - Ecodesign
  - Energy Star
  - CLASP
  - International Task Force for Sustainable Products (ITFSP)
  - Parallel work in other implementing agreements (e.g. DSM)
- Support & complement international co-operation
  - non-member countries & international organisations
  - International Platform on Energy Efficiency Cooperation (IPEEC)



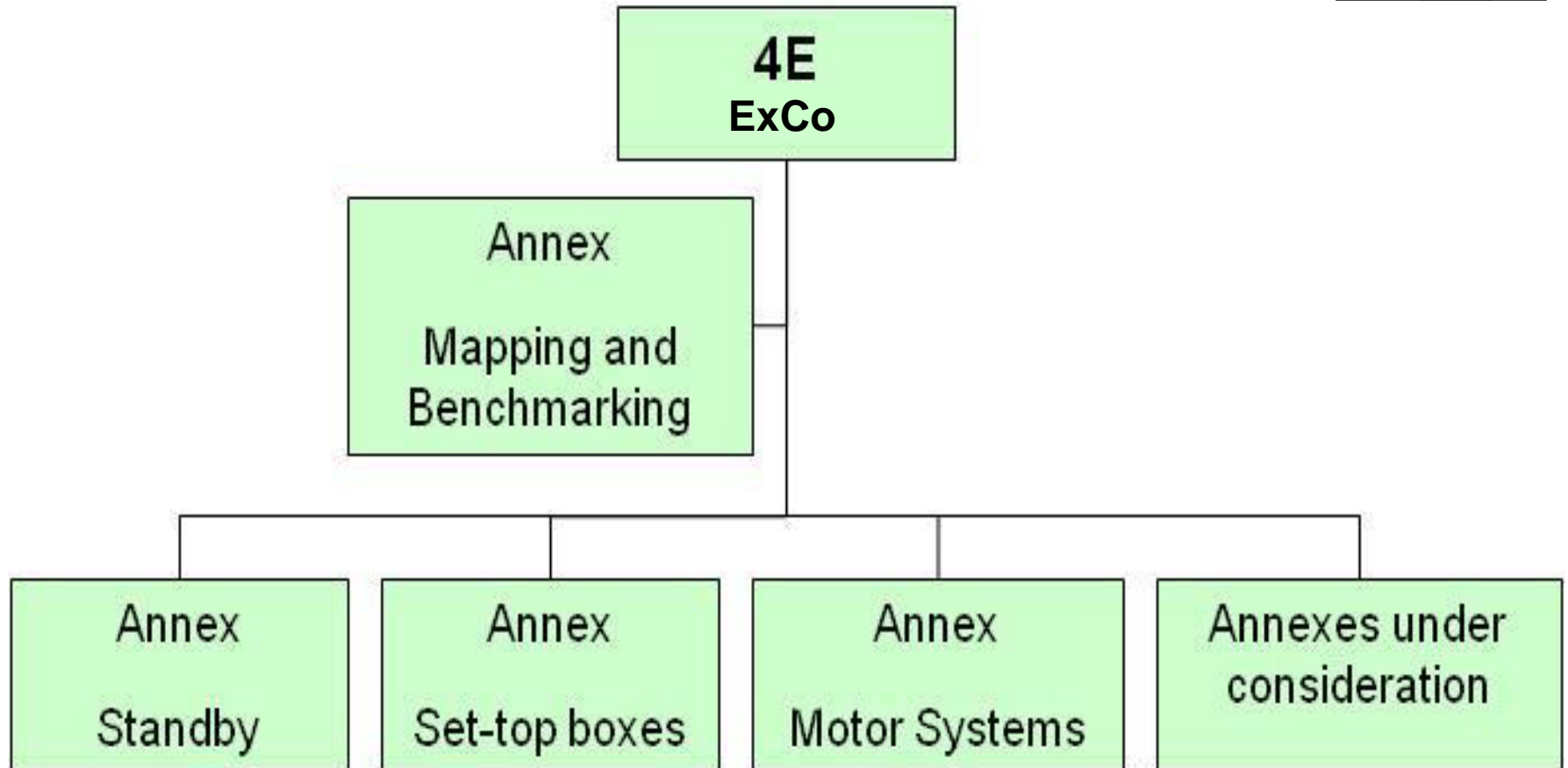
## Participating countries

- Australia (vice-chair)
- Austria
- Canada
- Denmark
- France
- Korea
- The Netherlands (chair)
- Switzerland
- USA

Expected to join soon:

- Japan
- South Africa
- UK

# 4E structure



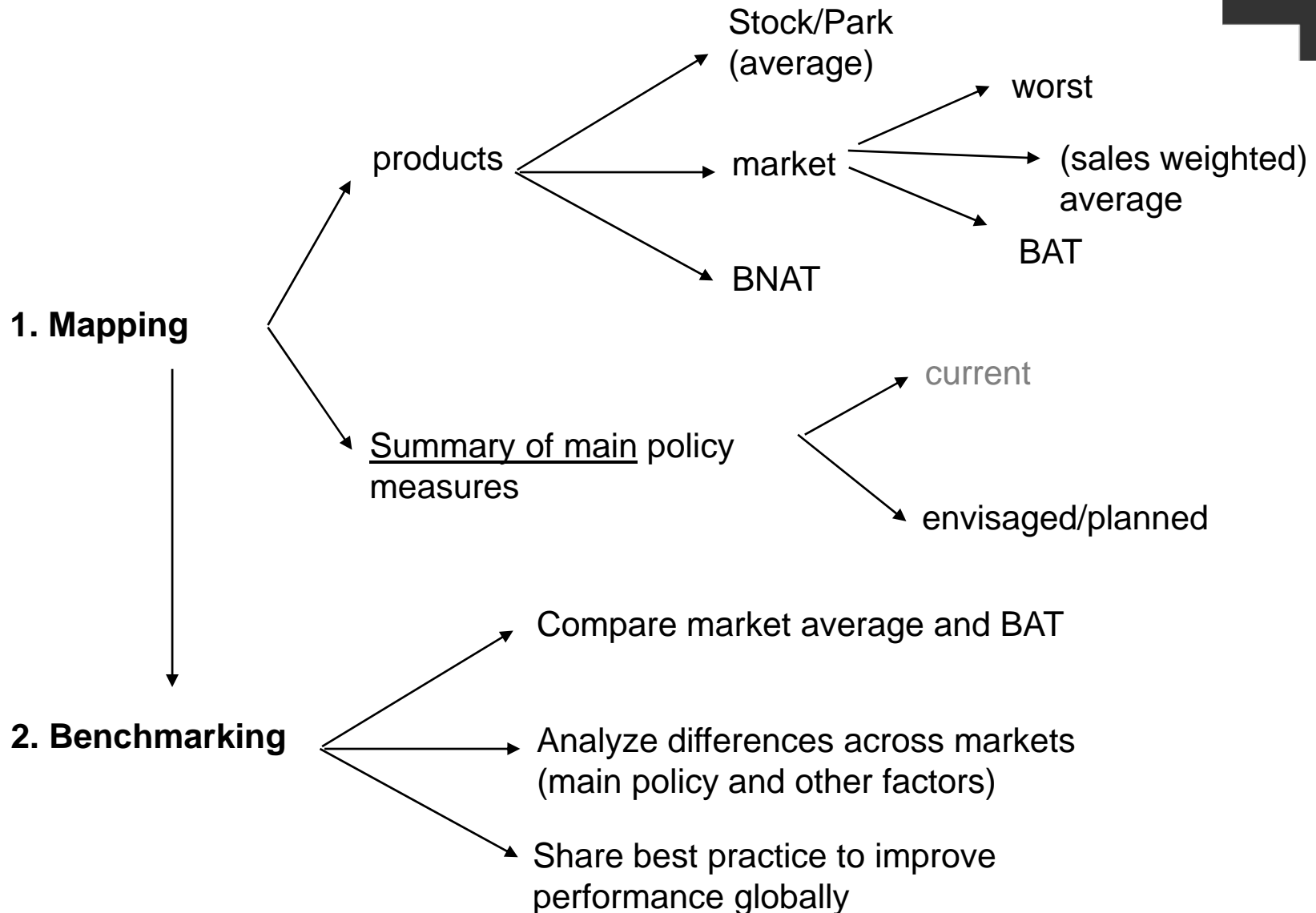
# Annex Mapping & Benchmarking - Aims



- **Mapping:** provide
  - an overview of the energy efficiency performance of electrical end-use equipment in several countries and/or regional areas
  - a brief summary of the (future) main policy measures regarding energy efficiency of products in those areas.
- **Benchmarking:**
  - compare average and best performance of products put on the market in different countries and/or regional areas;
  - analyse difference between different markets;
  - share best practices and lessons learnt by, for example, highlighting potential for further improvement of energy efficiency levels globally.

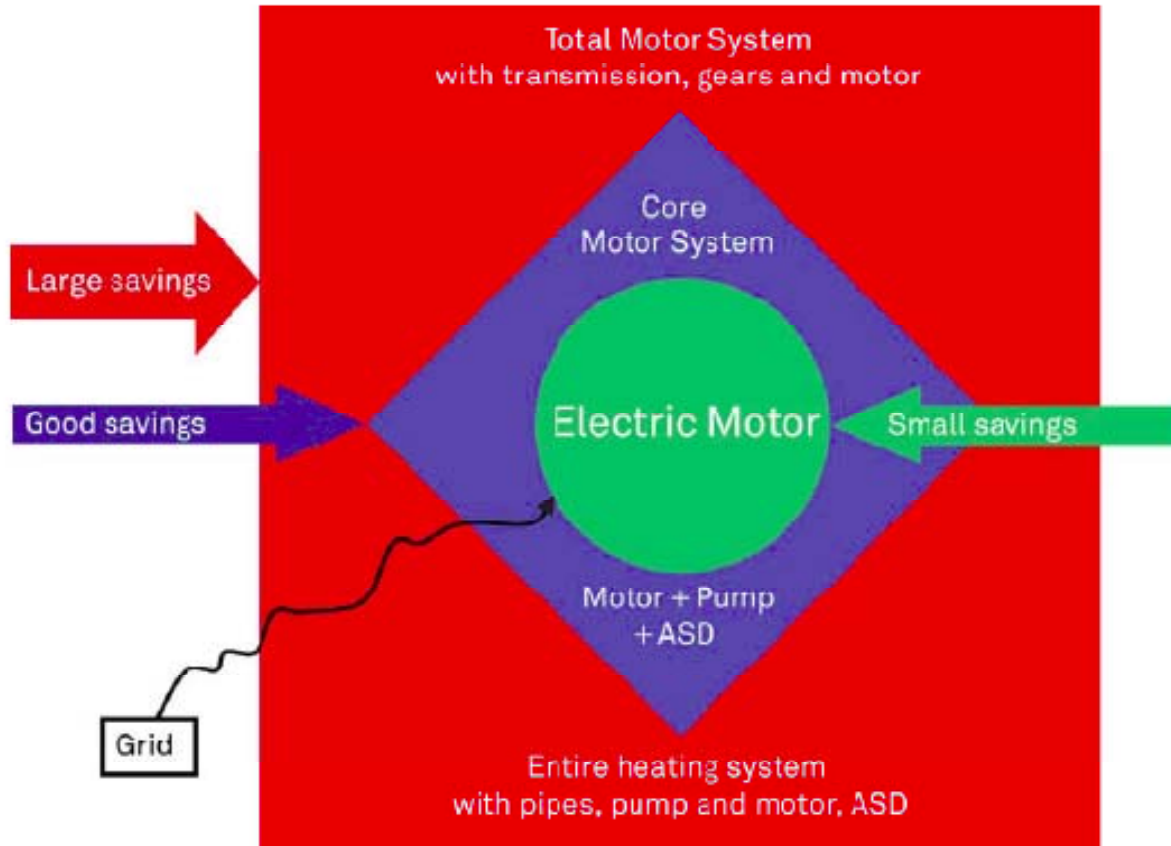


# Annex Mapping & Benchmarking



# Annex Motor Systems

# 4<sup>E</sup>





## Annex Motor Systems – Goals

- Promote high efficient electric motor systems in industrial and developing countries.
- Dissemination of best practice on technical and economical experience.
- Lessons learned for coherent motor policy.
- Minimum energy performance standards & labels.

In order to achieve:

- Energy efficiency improvement
- Lower emission of greenhouse gasses

# Annex Motor Systems – Tasks



- A. Implementation Support & Outreach
- B. Technical Guide for Motor Systems
- C. Testing Centres
- D. Instruments for Coherent Motor Policy (to start later)
- E. Training & Capacity Building
- F. Energy Management in Industry
- G. New Motor Technologies
- H. Total Motor Systems Integration (to start later)

# Annex Standby



- **Goal: provide guidance for (future) standby policies**
- **Relation with APP project on standby (data collection, workshops)**
- **Focus on:**
  - **Experiences with horizontal measures**
  - **Standby in networked modes**

# Website: [www.iea-4E.org](http://www.iea-4E.org)



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## 4E - Efficient Electrical End-Use Equipment

### IEA Implementing Agreement for a Co-operating Programme on Efficient Electrical End-Use Equipment (4E)

A number of IEA member countries join forces in a new international collaborative programme to promote wider use of more energy-efficient electrical equipment. This co-operation is taking place in the framework of the new IEA implementing agreement. The Governing Board of the International Energy Agency (IEA) has in March 2008 given support to the co-operation.

The co-operation will focus on efficiency of electrical end-use equipment. Energy efficiency is more than ever a top priority on the international agenda. Using energy-efficient equipment is the most cost-effective short-term path to greater energy security and lower greenhouse gas emissions to combat climate change. It reduces pressure on energy resources.

The IEA estimates that energy-efficiency improvements could contribute 47% of reductions in energy-related CO<sub>2</sub> emissions potentially achievable by 2030.

Addressing today's energy challenges has a global as well as a national perspective. Electrical equipment is produced and traded on a global scale. Very substantial gains are possible if energy-efficiency issues are addressed through international co-operation and interaction, being crucial when responding to governments' need for guidance. The new "4E" IEA Implementing Agreement may constitute an essential collaborative tool.

### News

#### Mark Ellis & Associates appointed 4E Operating Agent

17 Sep 08 - IEA 4E

#### Motor Systems Annex Start-Up Meeting held in Switzerland

13 Jun 08 - IEA 4E

#### WTO Seminar on Trade and Climate in Copenhagen

9 May 08 - IEA 4E

#### New IEA Implementing Agreement for a Co-operating Programme on

- General information on 4E
- Specific information on Annexes
- Protected area for ExCo-members
- Websites for Annexes will have the same look and feel.



**Thank you for your attention**

More information on:

[www.iea-4E.org](http://www.iea-4E.org)