

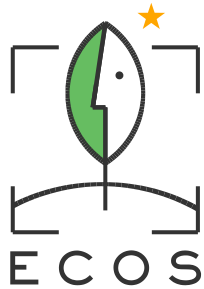


EU Ecodesign regulations for industrial equipment: opportunities and challenges



Edouard Toulouse & Stamatis Sivitos, ECOS

Laura Spengler & Norbert Reintjes, Ökopol



European
Environmental
Citizens'
Organisation for
Standardisation

What are we talking about?



**How to make sure they are
designed to save energy?**

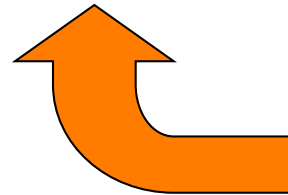
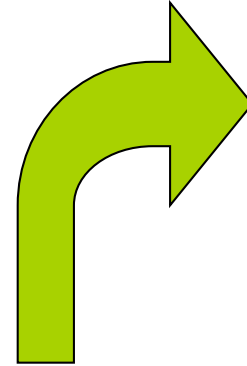
safety
performance
etc.

+

environmental
requirements

Information
requirements

generic design
requirements



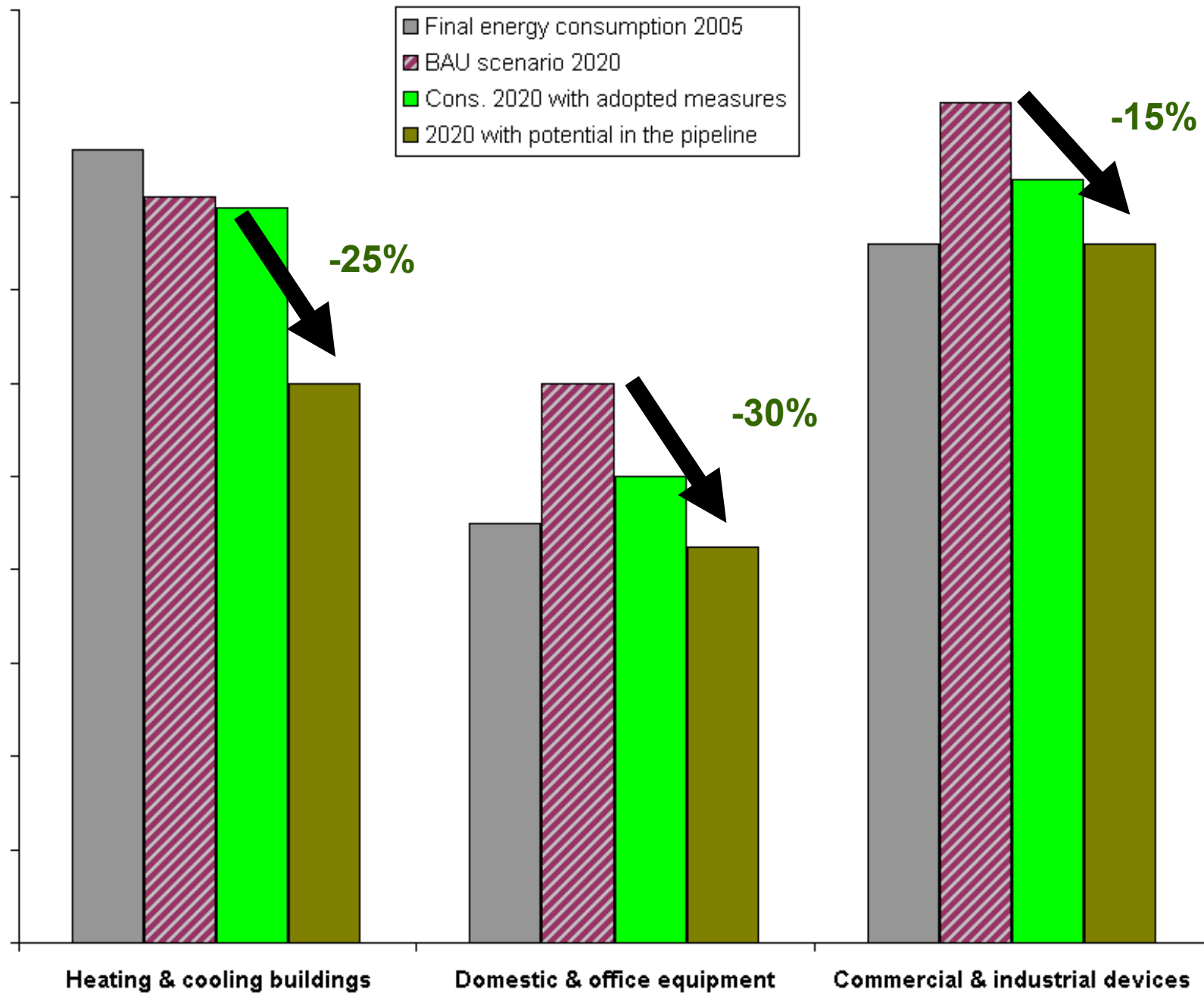
Market surveillance
27 Member States

EU Ecodesign process



High energy saving potentials

Primary energy EU



Industrial products under the scope of this EU policy



Standard motors



Special motors



Standard pumps



Special pumps



Industrial fans



Compressors



**Refrigerating &
condensing units**



Transformers



**Industrial ovens
& furnaces**



Machine tools

Content of the regulations (so far)



(revision: 2016)



IE2 binding & by 2015: IE3 or binding VSD (drive)

IE4 (permanent magnet) / VSD



(revision: 2016)



Efficiency 10% by 2013 & 40% by 2015

Efficiency > 70%



(revision: 2015)



Requirements per fan categories in 2 tiers

Backward curved fans, efficiency 70%



Vote expected 2013



Requirements in 2 tiers (2014 & 2017)



Vote expected 2013



Max. level of load & no-load losses

Optimised amorphous design



1st consultation 2013



tbd

Optimised design, controls, recovery

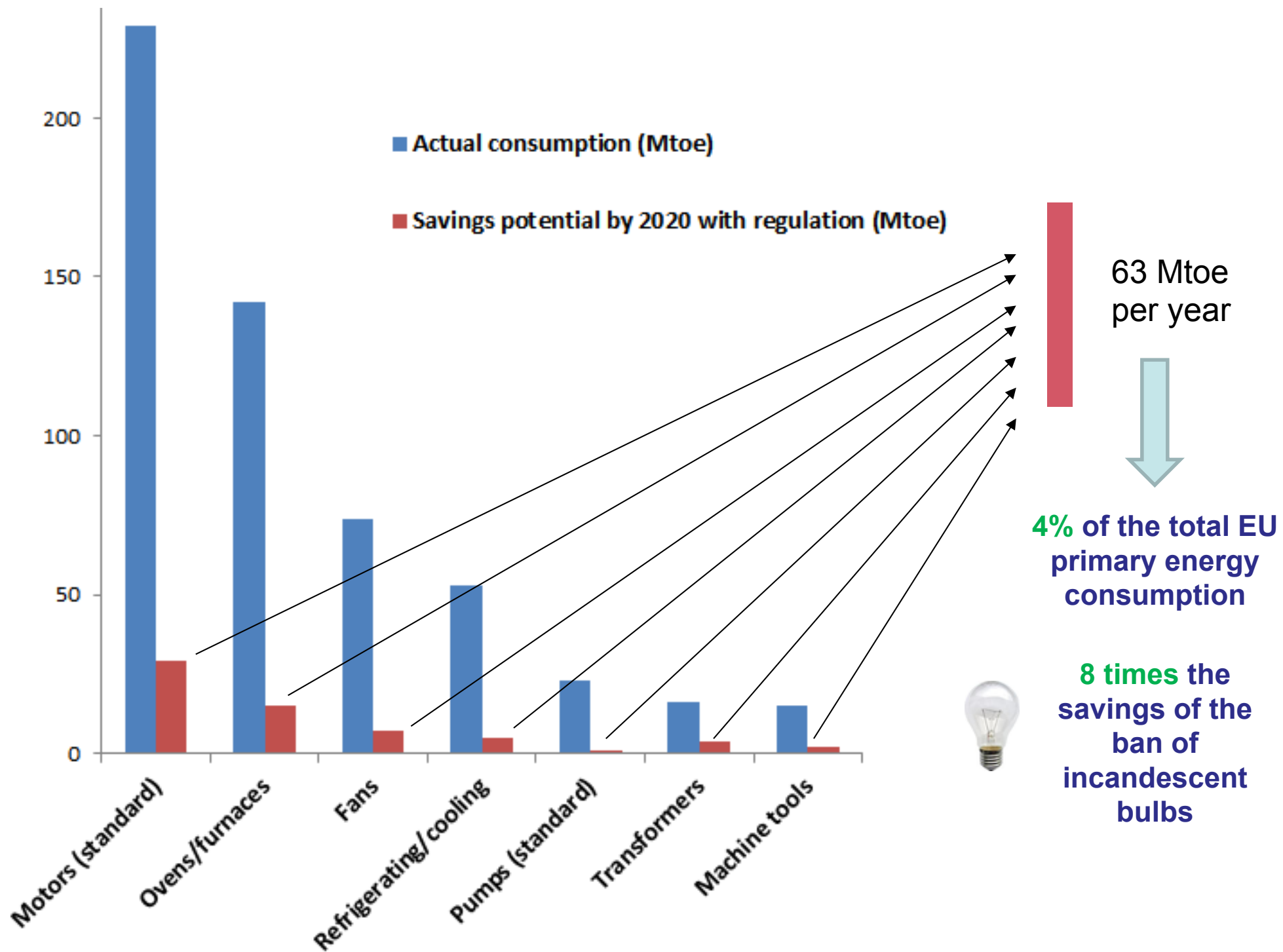


1st consultation 2013



tbd

Optimised design, controls, recovery



Challenge #1



Loophole in high altitudes!



Issue with ISO definition

Challenge #1

Scope and definitions

- Usually recommended to align with international standards & definitions (ISO / IEC)
- But... there may be loopholes in standard definitions
- Scope can be too wide, or too narrow
- Alignment of calendars proves tricky

Suggestions:

- Scope should be clarified & fixed early in the process (at kick-off of prep. study) with standardisation bodies
- Budget allowed to studies consistent with scope
- Exemptions need to be limited in time and size

Challenge #2



**Manufacturers complain that proposed regulation for professional refrigeration
« ...*goes beyond the laws of physics* »!**



Dispute on market data

Challenge #2

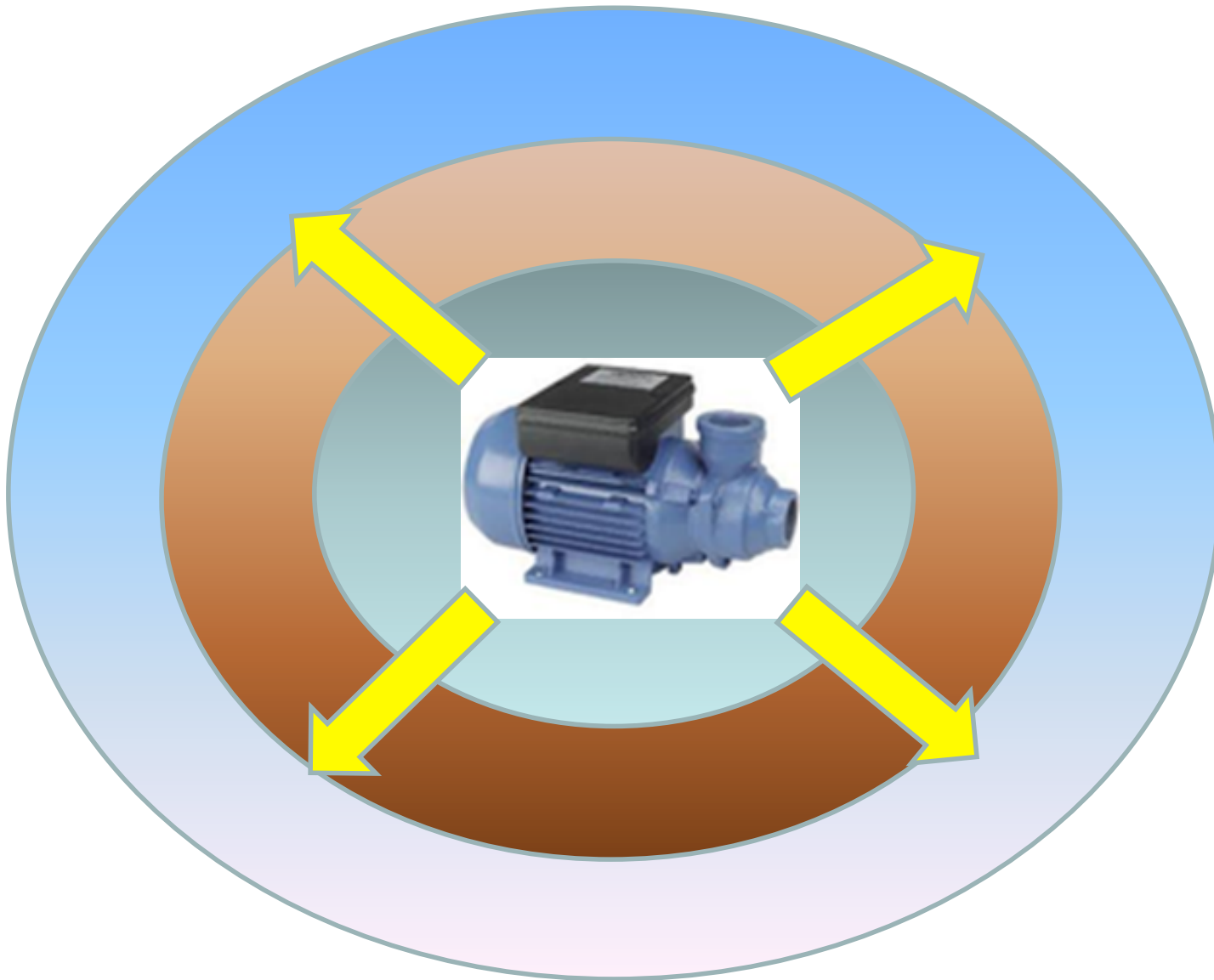
Access to quality data

- Credible and up-to-date data is a prerequisite to setting adequate regulatory levels
- But... industrial federations sometimes do not provide
- EU does not have a market database or registration

Suggestions:

- More pressure on industrial federations to report on energy performance of their members' products
- EU should set up market monitoring tools
- Data collection should start one year before revision

Challenge #3



Challenge #3

System approach vs components

- Targeting products misses savings in systems
- But... regulations need to remain enforceable
- In some cases, 'extended product approach' can help?

Suggestions:

- More work from standardisers necessary (on measurement, interfaces, controls, interoperability...)
- Use more generic requirements
- Information requirements also required

Challenge #4



How do you verify compliance of such a large machine?



Enforceability



Challenge #4

Verification & enforcement







- **Very scarce verification from legal authorities**
- **Challenge of testing big industrial machines**
- **Issue of 'batch' for tailored-made equipment**
- **How can sanctions be implemented?**

Suggestions:

- **Horizontal discussion on MVE for industrial products**
- **Consider 'on-site' control, check-lists, qualitative requirements**
- **Information requirements also required**

How to find detailed information on the status of the different measures?

www.expert.coolproducts.eu



- Greening products: the EU Ecodesign and Energy Labelling regulations -

[Home](#) [News](#) **[Products](#)** [Policy Background](#) [Involvement of NGOs](#)

You are here: Products

Products

- Draft & adopted measures
- Preparatory studies
- Positions from Environmental NGOs
- Working plan

Product Groups Covered

The usual process for a product group starts with the **preparatory study** (12 to 18 months), which inspires the European Commission to draft a first **working document**. These are discussed in a **Consultation Forum** meeting. Then a social and economic **Impact Assessment study** is performed on the finalised draft measure. The 27 Member States vote on the Ecodesign implementing measure in a **Regulatory Committee**. After the vote, the **European Parliament and Council** have a three month right of scrutiny to accept or oppose the regulation.

OVERVIEW ON CURRENT STATUS

Heating & cooling equipment

- Boilers and water heaters (lots 1&2):** Ecodesign & Energy Label measures discussed since 2008. Long time taken to refine the methodology. Finalised drafts expected in first half of 2011.
 - [Most recent working documents](#)
 - Most relevant position papers: [boilers, water heaters](#)
- Circulators for boilers (lot 11):** [Ecodesign regulation](#) adopted in 2009. Amendment envisaged in 2011.
- Domestic air-conditioners (lot 10):** Ecodesign & Label measures in final stage. Vote expected in April 2011. Controversies on label for portable coolers.
 - [Most recent working documents](#)
 - No up-to-date position paper available (*one will be produced for the vote*)
- Domestic ventilation (lot 10):** Ecodesign & Energy labels proposed for ventilation units and kitchen hoods.
 - [Most recent working document](#)

HOW TO NAVIGATE

The left menu allows access to 4 sections:

- Preparatory studies:** these pages provide the draft or final chapters of the studies. NGOs send technical experts to monitor some of them.
- Draft and adopted measures:** this is where you may find all the working documents and drafts from the European Commission.
- Positions from Environmental NGOs:** the comments and positions we defend during consultation stages. They cover the different product groups.
- Working Plan:** information about the list of products to be covered by the Ecodesign policy.

The middle column of this page provides an **overall overview** of the status for the different product groups, which helps accessing