Ecodesign Directive 2009/125/EC
&
Energy Labelling Directive 2010/30/EU
State of Play

Eurovent General Assembly
1 June 2012
Energy efficiency policy

Europe 2020 Strategy:
- objectives on employment, innovation, education, social inclusion and climate/energy
- Flagship Initiative Resource Efficient Europe

Europe 2020 Targets:
- Reduce greenhouse gas levels by 20%
- Increase share of renewables to 20%
- Reduce energy consumption by 20%

Current estimates show the EU is not on track to achieve its target of reducing its estimated energy consumption

Communication Energy Roadmap 2050 (December 2011)
Energy efficiency instruments

**Ecodesign Directive** 2009/125/EC

**Energy Labelling Directive** 2010/30/EU

**Energy Star** programme for office equipment

**Ecolabel Regulation** (EC) No 66/2010 (voluntary endorsement label for top performers)

**Green Public Procurement - GPP**
i.e. work programme for EU GPP and the EU Ecolabel 2011-2015 for 18 product groups

**Energy performance of Buildings Directive**
recast 2010/31/EU

**Energy Efficiency Directive Proposal** *(June 2011)* to step up Member States efforts to use energy more efficiently at all stages (energy saving schemes, public sector to lead)
**Energy efficiency of products – main instruments**

**Ecodesign Directive 2009/125/EC:** «framework» defining the «rules» for setting product-specific requirements/legislation on energy efficiency and further parameters.

**Energy Labelling Directive 2010/30/EU:** «framework» defining the «rules» for setting product-specific requirements/legislation on standard information of the consumption of energy and other resources.

**Other related instruments**

**Ecolabel:** The EU Ecolabel helps identify products and services that have a reduced impact on the environment throughout their life cycle, from the extraction of raw material through to production, use and disposal.

**Green Public Procurement:** Voluntary instrument. GPP can help stimulate a critical mass of demand for more sustainable goods and services which otherwise would be difficult to get onto the market.
EU’s main legal instrument to improve the environmental performance of energy-related products

- Exemption for the automotive sector regulated in the type-approval legislation

**Framework Directive** → requirements on product-by-product basis via:

- Implementing measures, or
- Voluntary agreements

Implementing measures only for products with:

- Significant environmental aspects
- Significant potential for improvement
- Significant trade and sales volume
  (indicative threshold: 200,000 units per year)

Based on **Life-cycle approach**
Ecodesign and Labelling - results achieved

39 'Lots' with some 50 product groups to carry out preparatory studies.

14 Ecodesign Regulations and 6 Energy Labelling Regulations have been adopted so far.

10 measures under preparation for adoption in 2012.

4 new preparatory studies just started (motors not covered by Reg 640/2009, special purpose pumps and compressors).

<table>
<thead>
<tr>
<th>Product</th>
<th>Example Estimated savings by a set of Regulations (annual by 2020) [TWh]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standby</td>
<td>35</td>
</tr>
<tr>
<td>Simple set-top boxes</td>
<td>6</td>
</tr>
<tr>
<td>Street &amp; Office lighting</td>
<td>38</td>
</tr>
<tr>
<td>External power supplies</td>
<td>9</td>
</tr>
<tr>
<td>Domestic lighting</td>
<td>37</td>
</tr>
<tr>
<td>Electric motors</td>
<td>135</td>
</tr>
<tr>
<td>Circulators</td>
<td>23</td>
</tr>
<tr>
<td>Freezers/refrigerators</td>
<td>6</td>
</tr>
<tr>
<td>Televisions</td>
<td>43</td>
</tr>
<tr>
<td>Fans</td>
<td>34</td>
</tr>
<tr>
<td>Air conditioning and comfort fans</td>
<td>11</td>
</tr>
<tr>
<td>Total [TWh]</td>
<td>377</td>
</tr>
</tbody>
</table>
Actions required to fully implement
- the 2005 Ecodesign Directive and
- the 1\textsuperscript{st} Working Plan 2009-2011

- **31 Implementing measures**
  22 ecodesign & 9 energy labelling measures under preparation

- **4 Voluntary agreements** to be recognised

- **9 Preparatory studies**
  4 studies to be finished & 5 studies to be launched
Preparatory and adoption procedure

1. Product study completed
2. Consultation Forum and first proposal
3. Draft regulation
4. Approved by Regulatory Committee
5. Final regulation

Preparatory phase

EC
Step 1
Ecodesign Working Plan
8 months
EC
Step 2
Contract for preparatory study (tender)
24 months
Contractor
Step 3
Preparatory study
4.5 months
EC
Step 4
Consultation Forum
EC/Contractor
Step 5
Impact assessment + draft implementing measure
3 months

Adoption phase

EC
Step 6
CAB approval for ISC
Interservice consultations
3 months
EC
Step 7
WTO notification
3 months
EC
Step 8
Regulatory Committee (discussion + vote)
4 months
EC
Step 9
Scrutiny by the EP & Council
3 months
EC
Step 10
Adoption by the EC
2.5 months

55 months
## Implementing measures planned to be adopted in 2012

<table>
<thead>
<tr>
<th>Lot</th>
<th>Product group</th>
<th>State of play</th>
<th>Step</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td><strong>Networked standby</strong></td>
<td>Impact assessment to be finalised in May</td>
<td>5</td>
</tr>
<tr>
<td>17</td>
<td><strong>Vacuum cleaners (+ labelling)</strong></td>
<td>Impact assessment was approved in March</td>
<td>5/6</td>
</tr>
<tr>
<td>3</td>
<td><strong>Computers</strong></td>
<td>Interservice consultations to be launched in June</td>
<td>5/6</td>
</tr>
<tr>
<td>2</td>
<td><strong>Water heaters (+ labelling)</strong></td>
<td>WTO notification to be launched in May</td>
<td>6/7</td>
</tr>
<tr>
<td>1</td>
<td><strong>Boilers and combi-boilers (+ labelling)</strong></td>
<td>WTO notification to be launched in May</td>
<td>67</td>
</tr>
<tr>
<td>19</td>
<td><strong>Domestic lighting II (+ labelling)</strong></td>
<td>WTO notification was launched in March</td>
<td>7</td>
</tr>
<tr>
<td>11</td>
<td><strong>Electric pumps</strong></td>
<td>EP's and Council's right of scrutiny ends in May</td>
<td>9</td>
</tr>
<tr>
<td>-</td>
<td><strong>Amending Regulation 641/2009</strong></td>
<td>EP's and Council's right of scrutiny ends in May</td>
<td>9</td>
</tr>
</tbody>
</table>
| 16  | **Domestic tumble driers**  
   Domestic tumble driers (labelling) | Vote in the Committee scheduled for May  
   Adopted (in March) | 10 |
Voluntary Agreements planned to be recognised in 2012

<table>
<thead>
<tr>
<th>Lot</th>
<th>DG</th>
<th>Product group</th>
<th>State of play</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>ENTR</td>
<td>Medical imaging equipment</td>
<td>VA discussed at COCIR Steering Committee in March</td>
</tr>
<tr>
<td>4</td>
<td>ENER</td>
<td>Imaging equipment</td>
<td>Impact assessment to be finalised in May (IAB May/June)</td>
</tr>
<tr>
<td>18</td>
<td>ENER</td>
<td>Complex set top boxes</td>
<td>Interservice consultations in May</td>
</tr>
</tbody>
</table>
## Preparatory Studies planned to be finalised/launched in 2012

<table>
<thead>
<tr>
<th>Lot</th>
<th>DG</th>
<th>Product group</th>
<th>State of play</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>ENTR</td>
<td>Airco and ventilation systems</td>
<td>Preparatory study to be finalised in May/June 2012</td>
</tr>
<tr>
<td>5</td>
<td>ENTR</td>
<td>Machine tools</td>
<td>Final stakeholders meeting held in March 2012</td>
</tr>
<tr>
<td>4</td>
<td>ENTR</td>
<td>Industrial ovens and furnaces</td>
<td>Final stakeholders meeting held in April 2012</td>
</tr>
<tr>
<td>20</td>
<td>ENER</td>
<td>Local room heating systems</td>
<td>Final stakeholders meeting held in April</td>
</tr>
<tr>
<td>21</td>
<td>ENER</td>
<td>Central heating products</td>
<td>Final stakeholders meeting held in April</td>
</tr>
<tr>
<td>22</td>
<td>ENER</td>
<td>Domestic and commercial ovens</td>
<td>Finalised</td>
</tr>
<tr>
<td>23</td>
<td>ENER</td>
<td>Domestic and commercial hobs and grills</td>
<td>Finalised</td>
</tr>
<tr>
<td>27</td>
<td>ENER</td>
<td>Uninterruptible power supply (UPS)</td>
<td>Kick-off meeting held in March</td>
</tr>
<tr>
<td>28</td>
<td>ENER</td>
<td>Pumps for private and public waste water and for fluids with high solids content</td>
<td>Kick-off meeting held in March</td>
</tr>
<tr>
<td>29</td>
<td>ENER</td>
<td>Pumps for private and public swimming pools, fountains and aquariums as well as clean water pumps</td>
<td>Kick-off meeting held in March</td>
</tr>
<tr>
<td>30</td>
<td>ENER</td>
<td>Motors outside the scope of the Regulation 640/2009 on electric motors</td>
<td>Kick-off meeting held in March</td>
</tr>
<tr>
<td>31</td>
<td>ENER</td>
<td>Compressors</td>
<td>Kick-off meeting held in March</td>
</tr>
</tbody>
</table>

Periodically, DGs ENER/ENTR commission consultants to examine potential "Lots" of products to address


Philosophy of sharing out "Lots": B2B products = ENTR, consumer products = ENER

Each Lot has a PREPARATORY STUDY commissioned for it
 Priority product groups:

Window products
Steam boilers ( < 50MW)
Power cables
Enterprises' servers, storage and ancillary equipment
Smart appliances/meters
Wine storage appliances

Optional product groups:

Positive displacement pumps
Fractional horse power motors under 200W
Heating controls
Lighting controls/systems
Thermal insulation products for buildings

Combined energy savings potential would amount to around **2000 PJ (555 TWh)** per year by 2030.

**Power generating equipment:** Inclusion of this product group with substantial saving potential was requested by some stakeholders. Therefore a specific study assessing the potential of power generating equipment under 50MW will be launched.
Methodology: Revised and extended Ecodesign Methodology for Energy Related Products endorsed by the Consultation Forum on 19 January 2012: 

Standardisation: Call for proposals for support to NGOs and for Commission services in standardisation. Launch of tender foreseen for 3rd quarter 2012.

Market surveillance: Annual market surveillance collections exercise launched in 2012. Better understanding on how Member States carry out market surveillance, identify common problems, help deciding on possible further actions.

Helpdesk: support in informing e.g. consumers, companies and compliance authorities on ecodesign and energy labelling matters. Launch of tender foreseen for 3rd quarter 2012.
**Ecodesign review in 2012:**
Result of the Evaluation Study and possible way forward discussed at a Horizontal Consultation Forum on 19 April 2012
Provisional conclusions: the Directive achieves its main policy objectives. It is too early to evaluate the full effects of the Directive (implementing measures not yet in place sufficiently long time).

**Energy Labelling review in 2014:**
Launch of studies on the impact of implementing measures, support actions, standardisation, market surveillance in 2012-2013 etc to support the review in 2014. First behavioural study concerning Energy Labelling, in collaboration with DG SANCO, to be finished on Autumn 2012.

**Further developments** to be taken into account: Resource Efficiency Roadmap, Product Environmental Footprint, Material Efficiency, Critical Raw Materials, Sustainable Product Policy, etc.
Specific Product Groups: Air conditioning

- COMMISSION Ecodesign REGULATION (EU) No 206/2012 of 6 March 2012 for air conditioners and comfort fans on (<12kW, ENER Lot 10)

- Preparatory Study ENTR Lot 6 Part Air conditioning; 3rd Stakeholder Meeting in April, study to be finalised soon http://www.ecohvac.eu/
  - Three policy scenarios of energy performance MEPS will be proposed in terms of SEER and EER, three tiers basis 2015, 2017 and 2019
  - Products: chillers (electric air-cooled, electric water-cooled \(\geq 400\) kW, and air-to-air air conditioners (incl. split systems, VRF systems and package air-to-air air)
  - Expected savings in electricity 4.3 TWh for air conditioning chillers and 5.9 TWh for air-to-air air conditioners in 2025

- ENTR Lot 6 studies have been led in parallel to and ENER Lot 21 preparatory study on central heating products using hot air to distribute heat (other than CHP).
- Proposal to combine ENTR Lot 6 Airco Part with ENER Lot 21 impact assessment study, Consultation Forum
Specific Product Groups: Ventilation

- Preparatory Study ENER Lot 10 [http://www.ecoaircon.eu/]:
  - Working Document has been issued in 2010 and has been discussed, an additional independent study was provided on ventilation units
  - Products relevant to this working document include roof, window and wall ventilation units, heat recovery ventilation systems and domestic range hoods

- Preparatory Study ENTR Lot 6 Part Ventilation; 3rd Stakeholder Meeting in April, to be finalised soon. [http://www.ecohvac.eu/]
  - Scope: mechanical ventilation units with fans > 125 W, single-fan ‘exhaust’ units (CEXH), and double-fan ‘balanced’ units (air handling units (AHUs) and central heat recovery ventilation) units (CHRV).
  - Roughly 50% of the savings on electricity consumption can be attributed to measures under the Ecodesign Fan Regulation 327/2011.
  - Roughly savings attributed to ventilation:, comparable to around 100 TWh in 2025 (ErP, not only EuP)

- Proposal to combine ENTR Lot 6 Ventilation Part with ENER Lot 10 (impact assessment study, Consultation Forum scheduled for 23 October 2012)
Preparatory Study ENTR Lot 1, [http://www.ecofreezercom.org/](http://www.ecofreezercom.org/)

- Products included in this Lot are:
  1. Non household storage cabinets
  2. Blast cabinets
  3. Walk-in cold rooms
  4. Refrigeration process chillers
  5. Condensing units

Now in the impact assessment phase, set to be completed in November 2012

All products except professional storage cabinets will be subject only to Ecodesign, with a simple information requirement for blast cabinets

For professional storage cabinets, a widespread product (Over 400,000 units sold each year), there will be both an Ecodesign and an Energy labelling regulation

In their case, the first regulatory step (Tier 1) foreseen by the Prep study envisages energy savings of 25 to 30%. This may lead to a purchase price increase of up to 10%; however, the life cycle costs would be reduced by 10-20% over the lifetime of the products. Savings of about 2.4 TWh are estimated for 2020
Thank you!

European Commission
DG Enterprise and Industry
Sustainable Industrial Policy Unit B1
B - 1049 Brussels

Contact: ENTR-Ecodesign@ec.europa.eu

DG Energy

and ENER-ECODESIGN@ec.europa.eu
http://ec.europa.eu/energy/efficiency/ecodesign/eco_design_en.htm

ENTR Lot 1: Laure Baillargeon, Ugo Miretti, ENTR Lot 6: Tobias Biermann
Tel: +32 2 29 -51226, -56071, -62573