

Energy Label - Chances CYS - Lefkosia 13th July, 2016



ENERG
energija - eneryia

Nilfisk VP600 STD3 EU
41600804

A

15 kWh/annum

66 dB

665/2013 - I

Charalambos Freed

Technical Director Global R&D Nilfisk A/S

Head of Standardisation and Compliance

Chairman Technical Committee EUnited Cleaning



TC 61 Safety of household & similar electrical appliances



SC 61J Electrical motor-operated cleaning appliances for commercial use

Chairman: C. Bender



Secretary: Ch. Freed , Ass.: J. Giegerich 



TC 59 Performance of household & similar electrical appl.



SC 59F WG6 Performance Standards

Convenor: Ch. Freed 



TC 31 Equipment for explosive atmospheres



JWG1 SC 61J / TC31 WG28 Vacuum cleaners

Convenor: Ch. Freed 



TC 61 Safety of household & similar electrical appliances



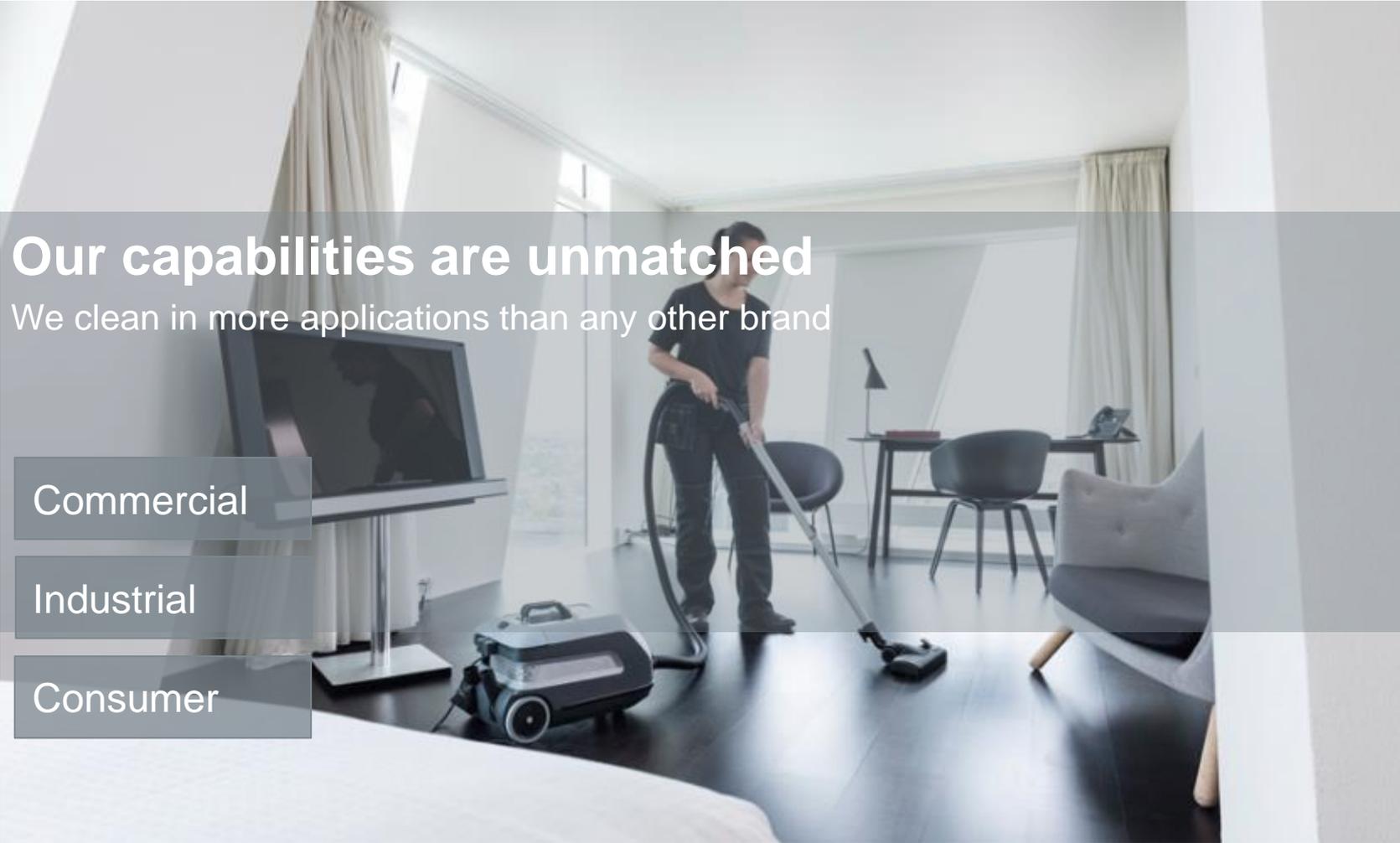
WG 10 Adaptation to European Directives

Convenor: Ch. Freed 

Issue Manager EN 60335-2-67, EN 60335-2-68, EN 60335-2-69, EN 60335-2-72, EN 60335-2-79

Agenda

- Short introduction Nilfisk A/S
- Energy label: Chances
- Revision of Energy Label Framework 2010/30/EU

A person is using a Nilfisk vacuum cleaner in a modern living room. The room features a large window with light-colored curtains, a desk with a chair, and a sofa. The vacuum cleaner is a canister model with a long, flexible hose and a motor unit on wheels. The person is wearing dark clothing and is focused on cleaning the dark wood floor.

Our capabilities are unmatched

We clean in more applications than any other brand

Commercial

Industrial

Consumer

Our commitment is strong

We develop cleaning solutions that provide cleaning efficiency while using less energy, less water and less detergent - we call it 'Green Meets Clean'

A vertical graphic on the right side of the slide showing a stream of water falling and splashing at the bottom, with bubbles and droplets. It is positioned to the right of the 'green meets clean' logo.

green
meets
clean

Nilfisk by the numbers

Leading the world in professional cleaning equipment

5,500
employees
worldwide

Sales companies in
45
countries

Production in
10
countries

Nilfisk products
are sold in
more than
100
countries

35
product launches
in 2015

Nilfisk by the numbers

Leading the world in professional cleaning equipment

972
mEUR in
annual sales

63%
of total sales
is in EMEA

Our organization



Nilfisk 1906-2016

110 years of knowledge

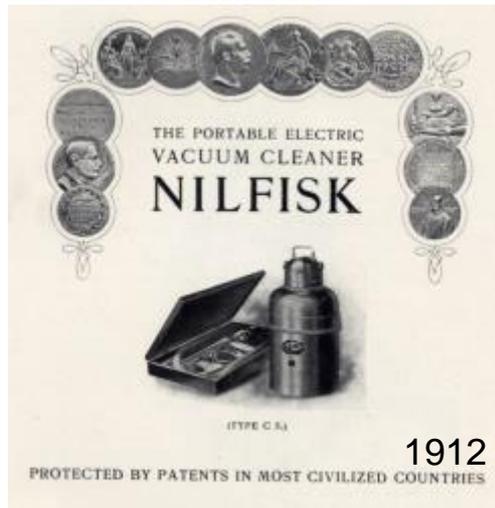
- First Nilfisk vacuum cleaner launched in 1910 – the "C1"
- Nilfisk was a progressive first mover in marketing and advertising
- The *first* cartoon commercial with music and speech in 1928
- Portfolio expanded with floorcare cleaning in 1950s – and later on with high pressure cleaners and outdoor equipment
- Focus on how cleaning makes our lives easier – and more productive



"The Silent Dane" 1932



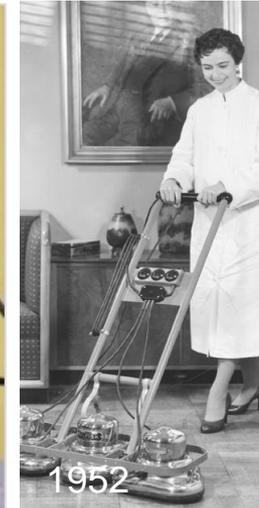
1945 1960



1912



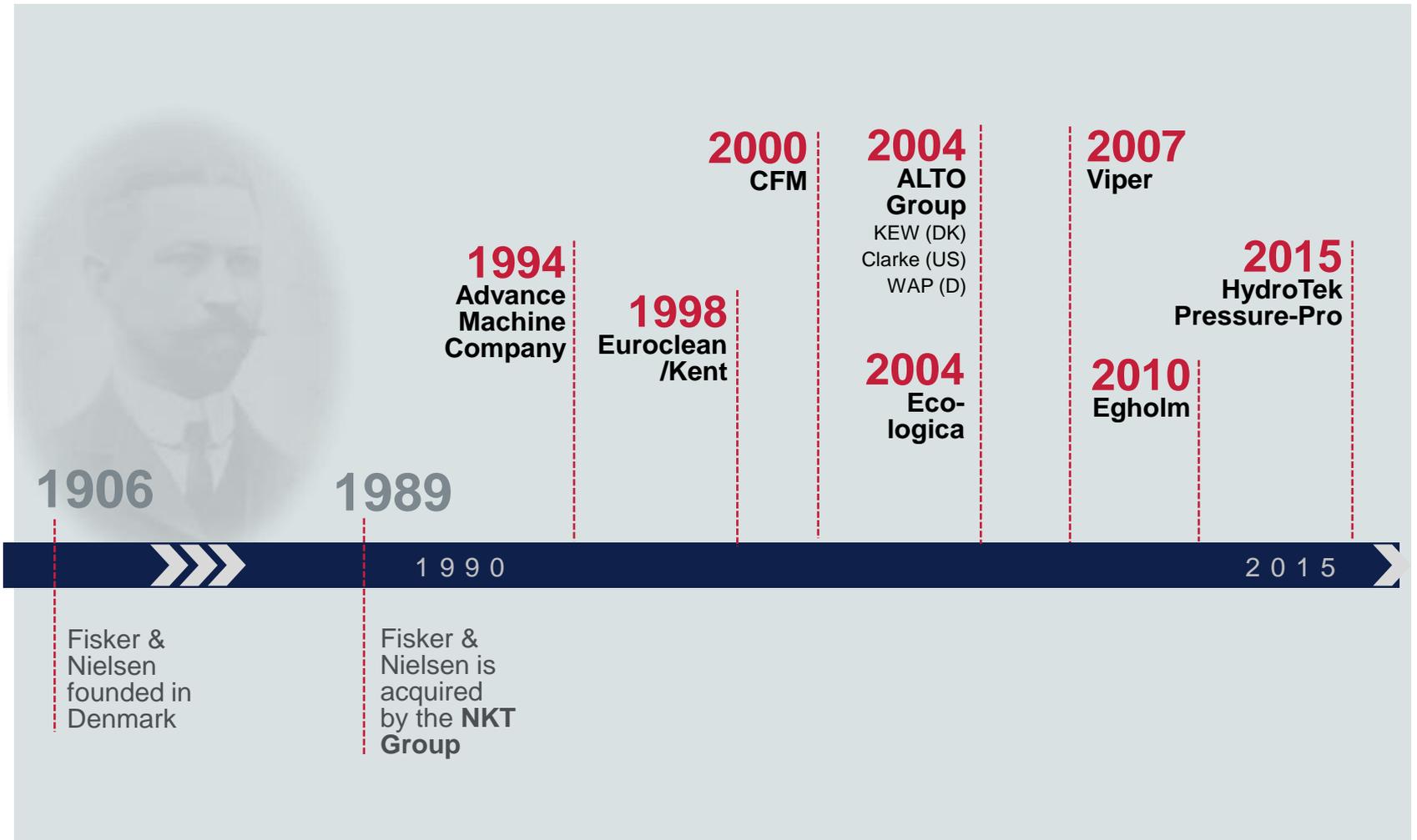
1960s Type F 67



1952

Nilfisk 1906-2016

110 years of expansion



Owned by the NKT Group



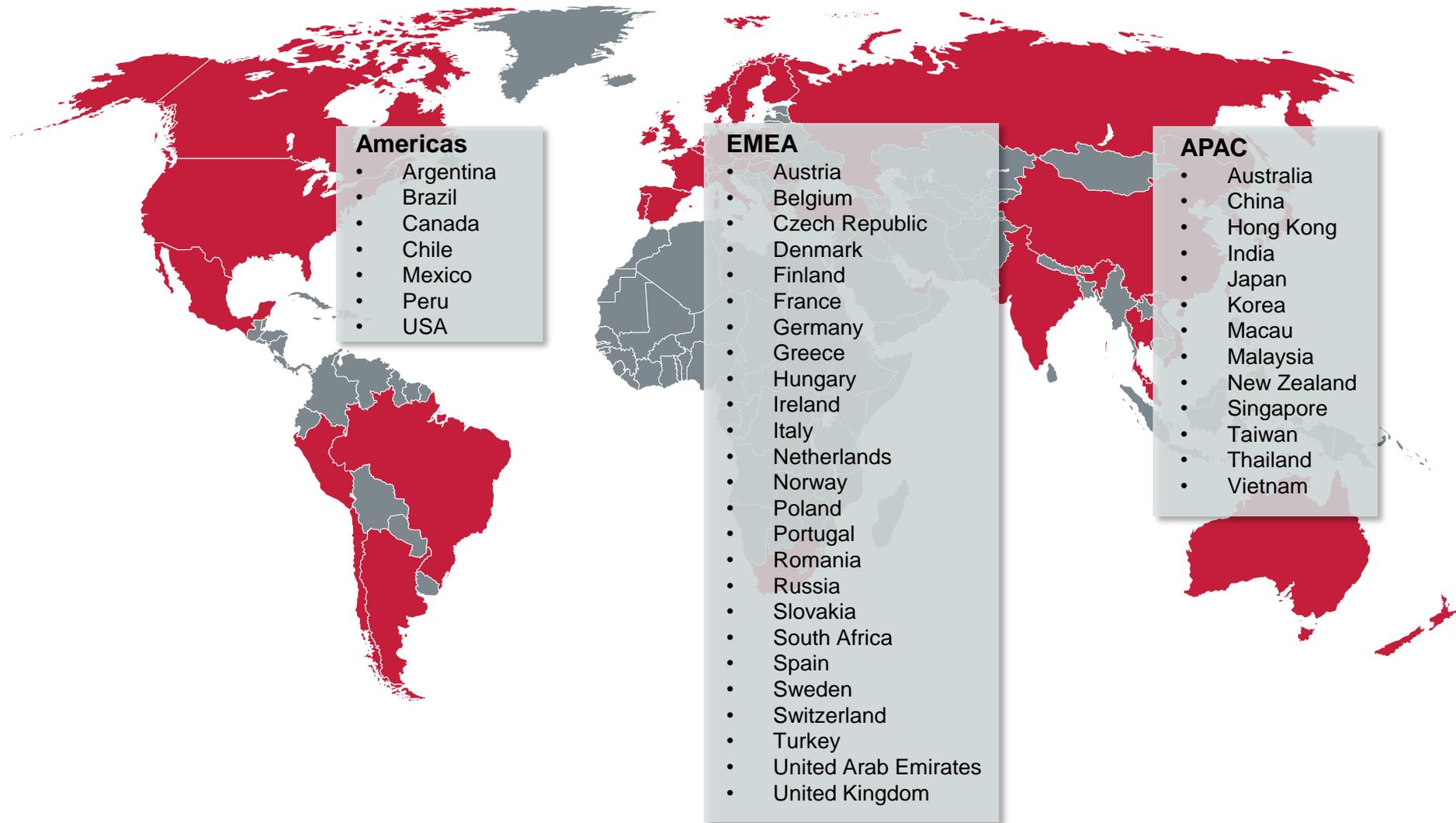
- One of Denmark's major industrial groups with 8,950 employees
- B2B companies with leading positions in their industries:
 - Power cables to the energy sector
 - Optical industry
 - Cleaning industry



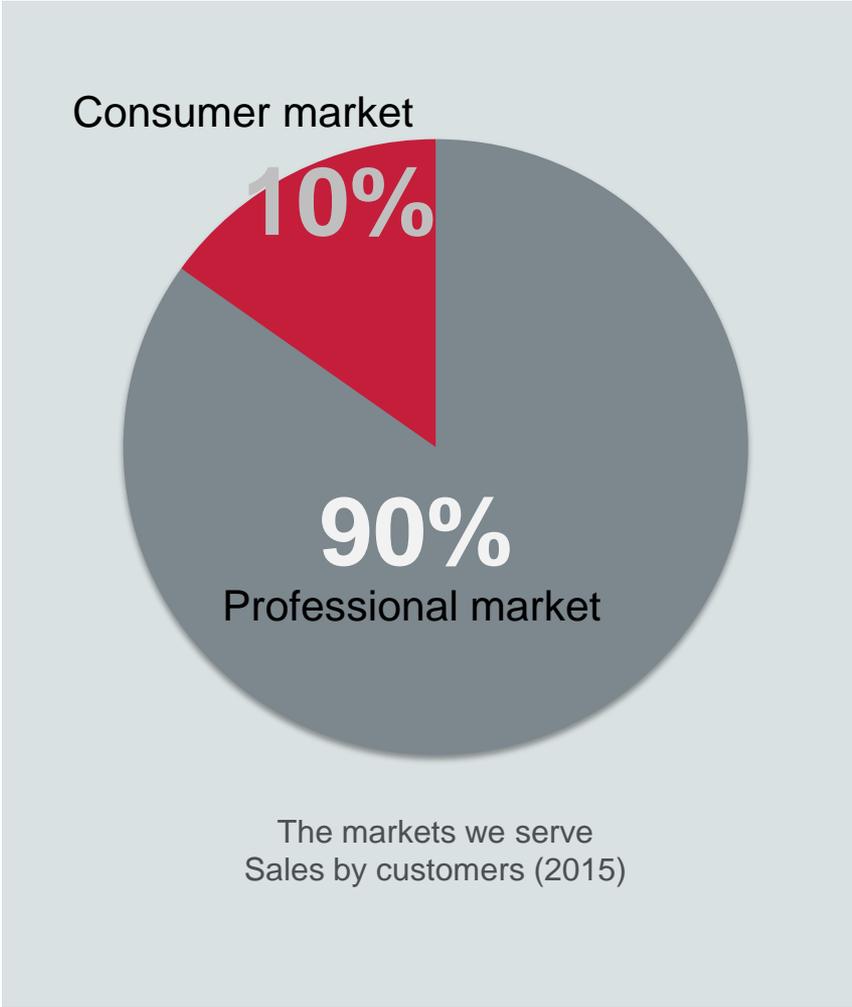
- 2015 total turnover of 2,224 mEUR
- Listed on the Nasdaq Copenhagen Stock Exchange

Strong global presence

Sales entities in 45 countries



A solid customer portfolio



Nilfisk equipment is used at companies with the highest cleaning standards



What we clean (1)

Strategic Focus Segments



Contract Cleaners

- Property Management, facility cleaning



Retail

- Retail, shopping malls



Healthcare

- Hospitals, clinics, dental, long term care



Education

- Schools, universities, training centers, technical institutes

What we clean (2)

Strategic Focus Segments

Construction

- Building and construction



Food & Beverage

- Production units, research, labs



Pharma

- Industries, biotech



What we clean (3)

Strategic Focus Segments



Iron & Metal

- Industries, biotech



Agriculture

- Farms, machine pools, production



Automotive

- Transport, vehicles, car wash



Full product range – overview

Floorcare



Sweepers, scrubber/dryers, combination riders, carpet extractors, burnishers, outdoor utility machines & road sweepers

Vacuum cleaners



Commercial vacuum cleaners, wet/dry, industrial vacuum cleaners, consumer products, central vacuum cleaners

High pressure washers



Professional high pressure washers, ultra high/low pressure, consumer high pressure washers



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How do we achieve energy efficiency in product design?

Combined effect ensures a dynamic improvement of the market:



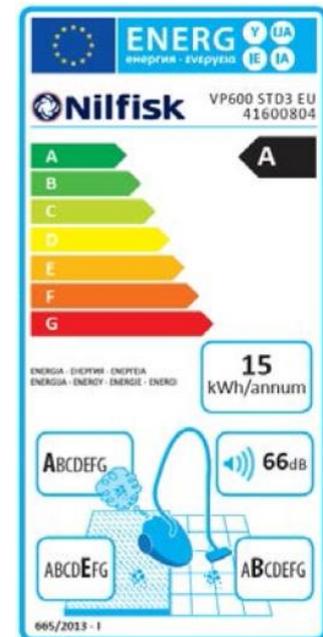
Both Directives are «frameworks» defining the «rules» for setting product-specific requirements through Regulations.

Ecodesign Directive (2009/125/EC)

- Allows to set requirements for environmental performance of energy-related products
- Main focus has been on energy in the use-phase
- Can address other environmental parameters and life-cycle phases
- Requirements have to be met in order to place a product on the market
- Requirements are harmonised across the EU

Energy Labelling Directive (2010/30/EU)

- Allows to specify an energy label for energy-related products
- The label shows energy efficiency in the use phase
- Use of other essential resources/ information during use also shown
- Manufacturers have to supply the label; dealers have to show it



11 energy labelling Regulations (+1 amendment)

- 1059/2010 Household dishwashers
- 1060/2010 Household refrigerating appliances
- 1061/2010 Household washing machines
- 1062/2010 Televisions
- 626/2011 Air conditioners
- 392/2012 Household tumble driers
- 874/2012 Electrical lamps and luminaires
- 665/2013 Vacuum cleaners
- 811/2013 Space heaters
- 812/2013 Water heaters & storage tanks
- 65/2014 Domestic ovens, hobs and range hoods
- 514/2014 *Amending all concerning labels on the internet*

2 voluntary agreements

- COM (2012) 684 Complex set top boxes
- COM (2013) 23 Imaging equipment

Tyre labelling + 2 implementing regulations

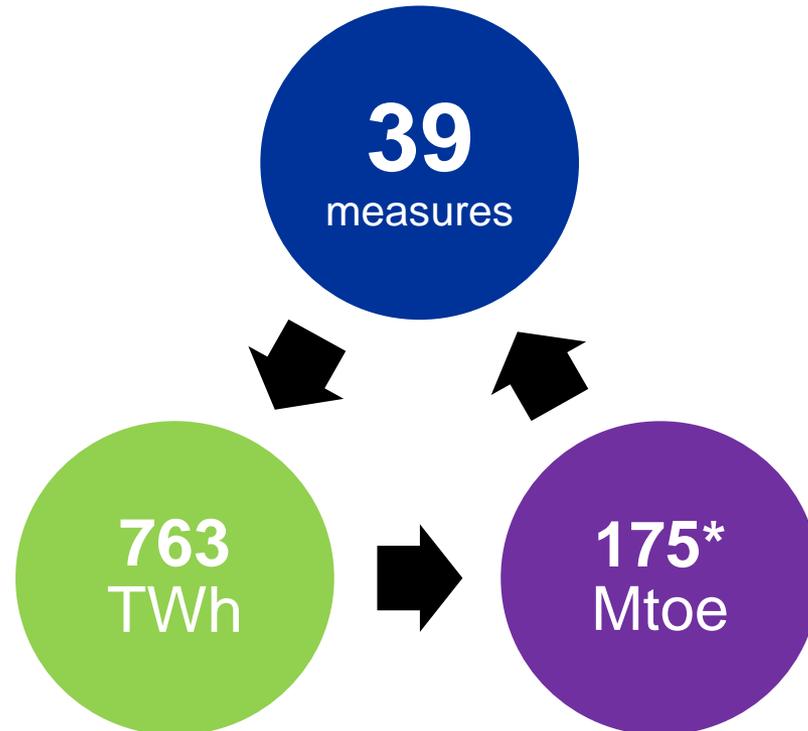
- 1222/2009 Fuel efficiency and other essential parameters
- 228/2011 Wet grip testing method for C1 tyres
- 1235/2011 Wet grip grading of C2, C3 tyres, measurement of tyres rolling resistance and verification procedure

24 ecodesign regulations (+4 amendments)

- 1275/2008 Electric power consumption standby and off mode
- 107/2009 Simple set-top boxes
- 244+859/2009 Non-directional household lamps
- 245/2009+347/2010 Fluorescent lamps for high intensity discharge lamps
- 278/2009 External power supplies
- 640/2009 + 4/2014 Electric motors
- 641/2009 + 622/2012 Circulators
- 642/2009 Televisions
- 643/2009 Household refrigerating appliances
- 1015/2010 Household washing machines
- 1016/2010 Household dishwashers
- 327/2011 Industrial fans
- 206/2012 Airco and comfort fans
- 547/2012 Water pumps
- 932/2012 Household tumble driers
- 1194/2012 Directional lamps
- 617/2013 Computers and servers
- 666/2013 Vacuum cleaners
- 801/2013 Networked standby
- 813/2013 Space heaters
- 814/2013 Water heaters & storage tanks
- 66/2014 Domestic ovens, hobs and range hoods
- 548/2014 Power transformers

Ecodesign and Energy labelling - Results Achieved

- 340 Mt CO₂ equivalent less greenhouse gas emissions, more than 7% of EU total emissions in 2010
- € 102 billion net saving on consumer expenditure = 465 € per household per year
- € 55 billion extra revenue for industry, wholesale and retail sector
- 800.000 extra direct jobs for industry, wholesale and retail sector



*more than the annual primary energy consumption of Italy

Ecodesign and Energy labelling - Results Achieved

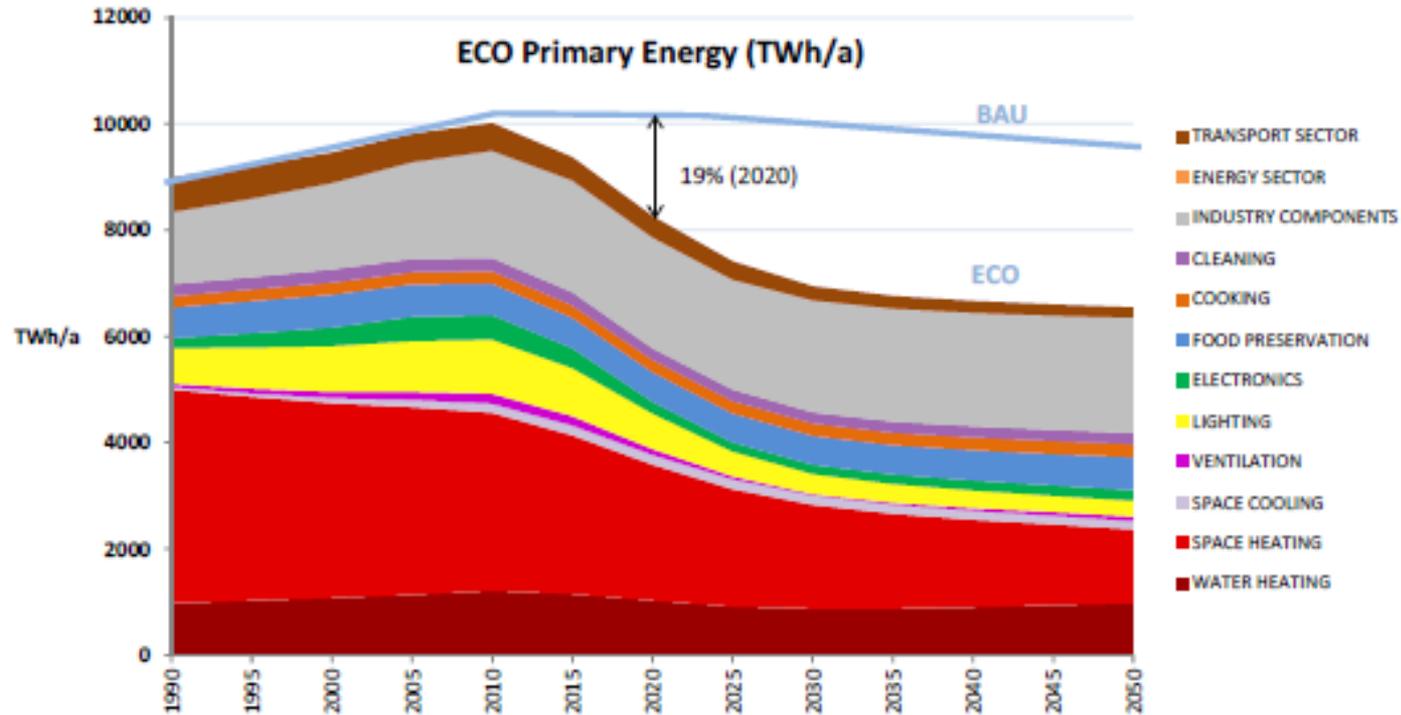


Figure 6. Primary energy consumption of products included in ecodesign impact accounting, status 1 Nov. 2013 (energy sector impact not shown)

Ecodesign and Energy labelling - Results Achieved

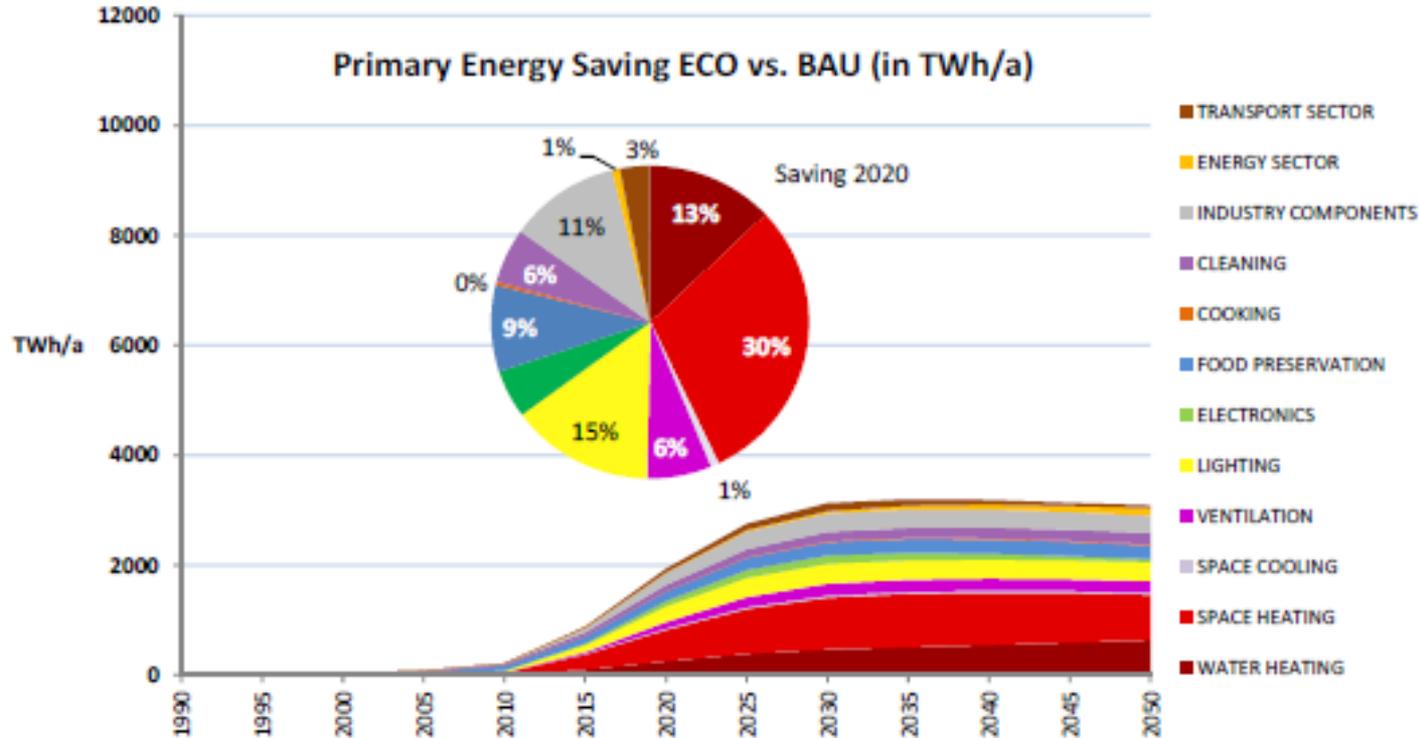
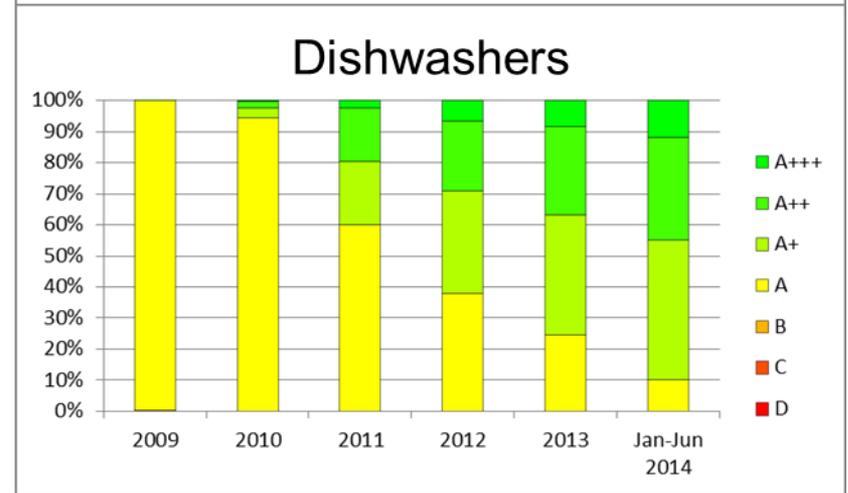
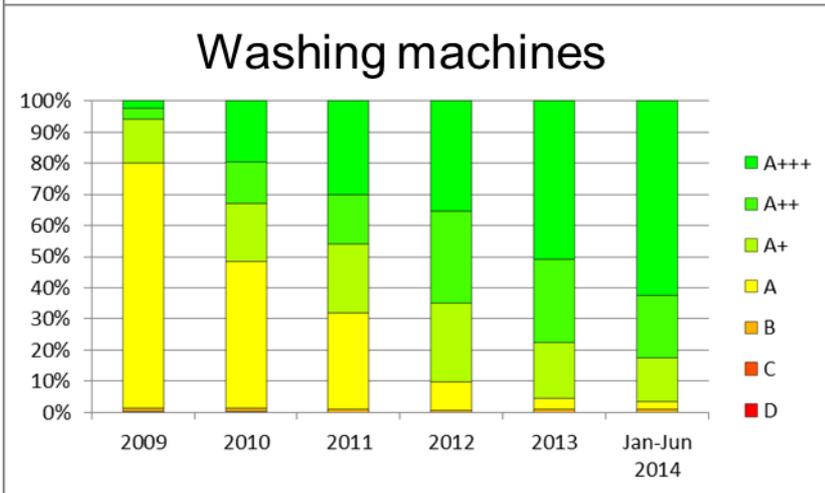
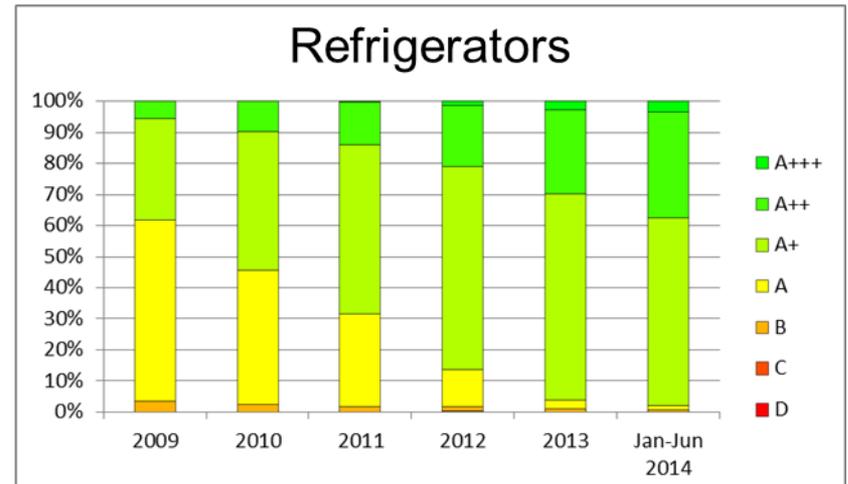
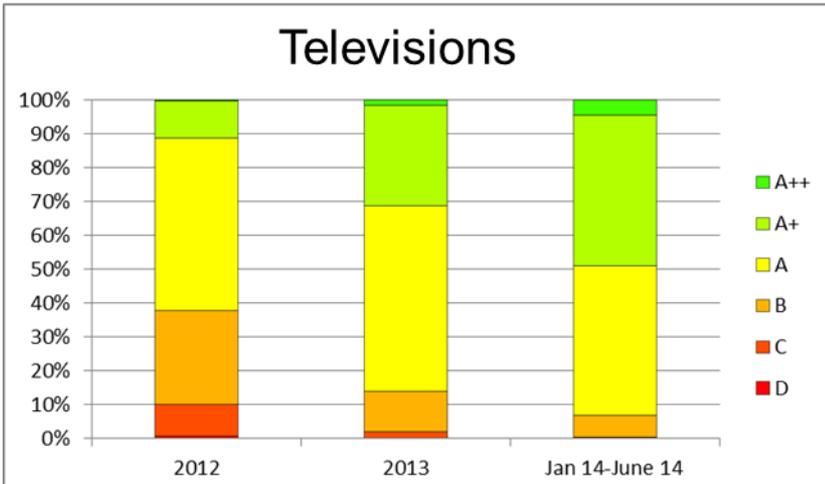
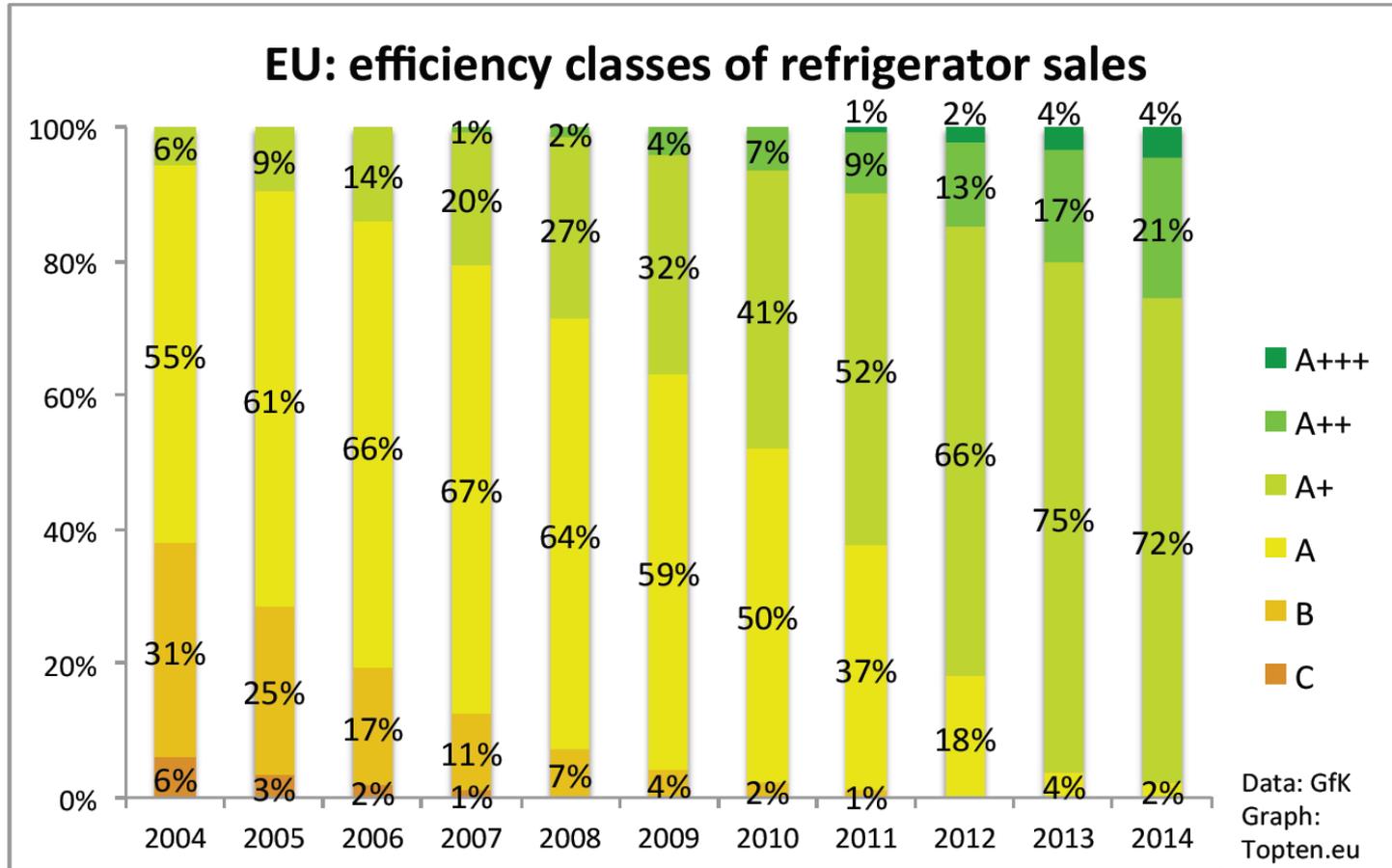


Figure 7. Primary energy saving of ECO versus BAU of products in ecodesign impact accounting, status 1 Nov. 2013

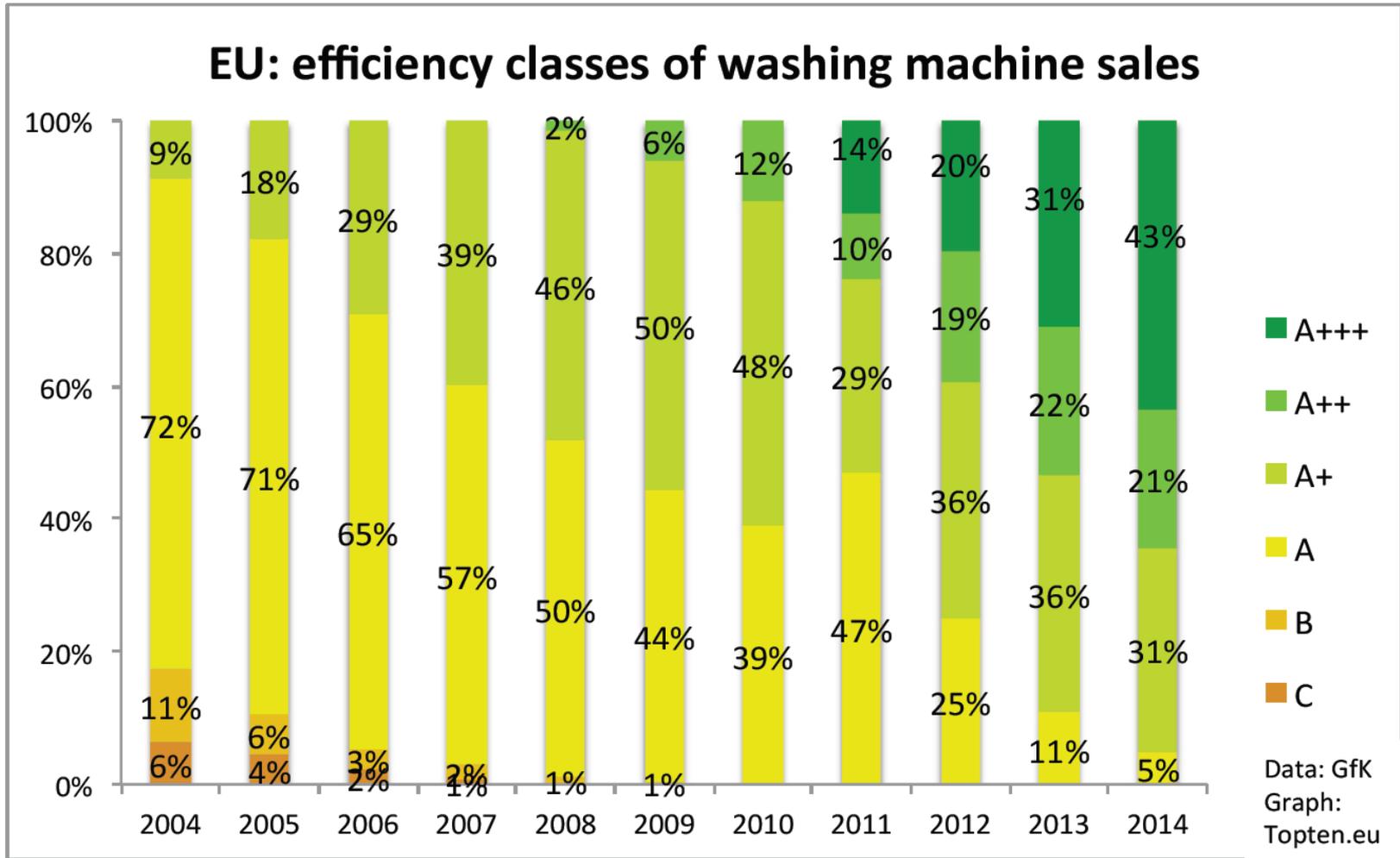
Market transformation



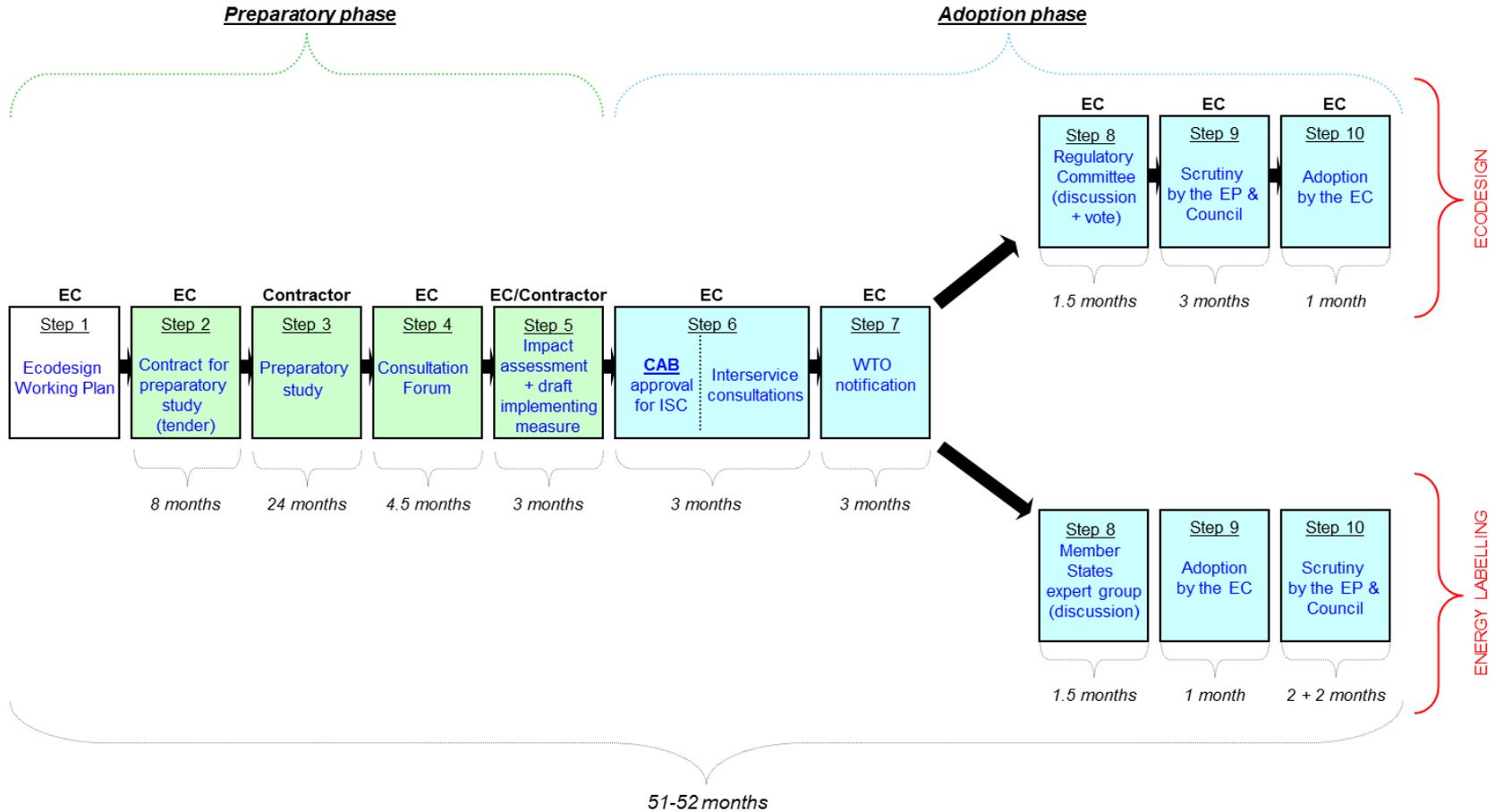
Market transformation



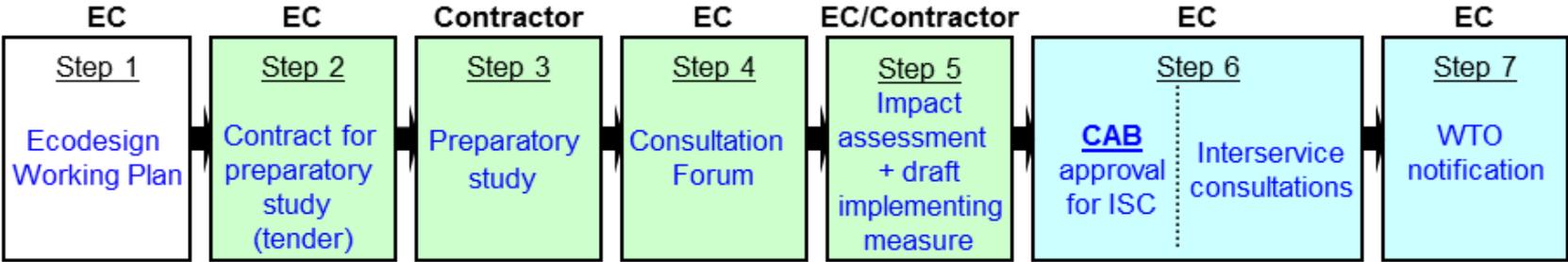
Market transformation



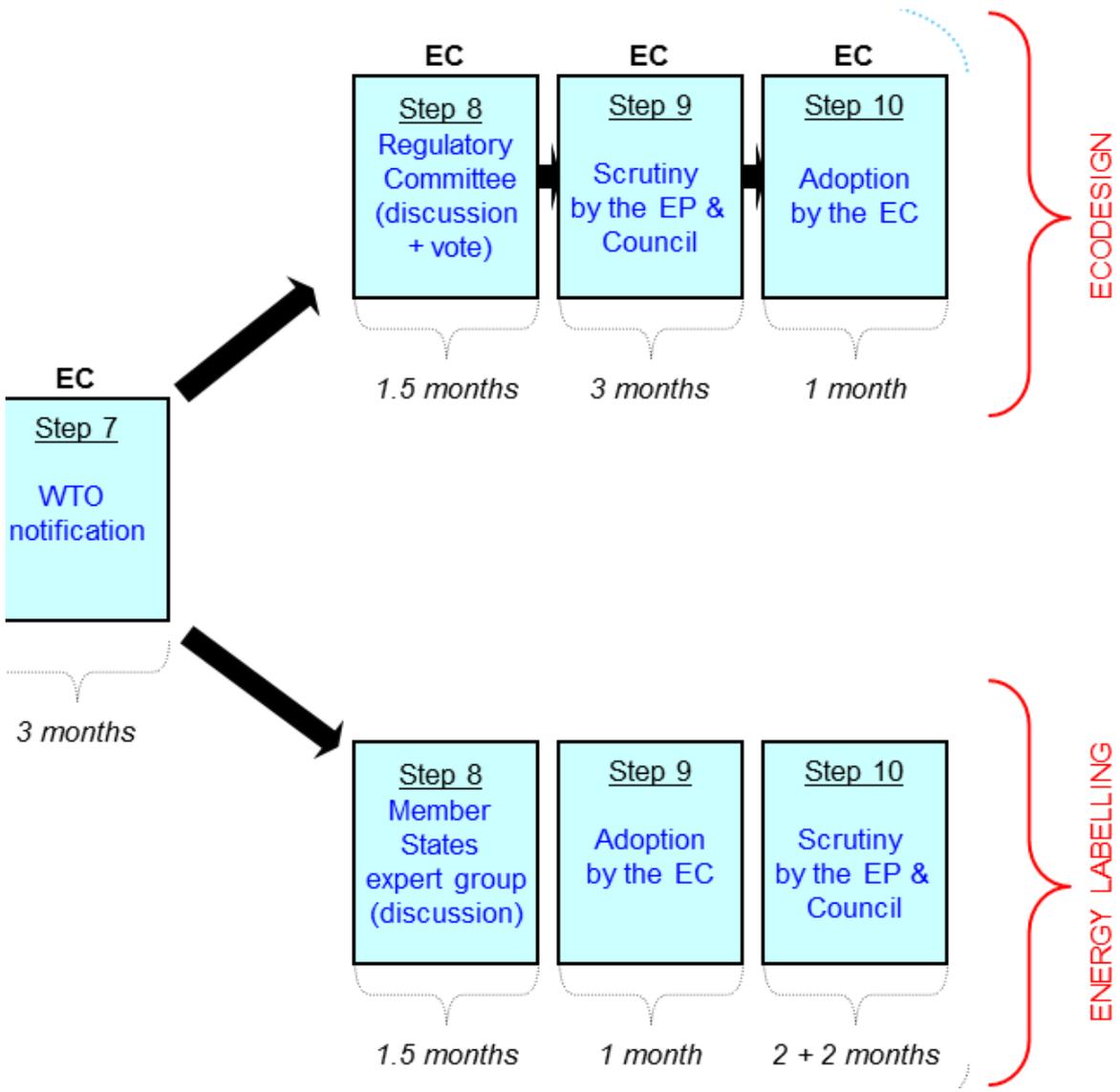
Process for developing product-specific regulations



Step 1-7



Step 8-10



Entry into force and application

Regulations enter into force 20 days after publication in the Official Journal of EU, but ..

.. requirements only become applicable from the date(s) specified in the regulation

Either 'Common commencement dates' (1 January or 1 July) or exactly X years after entry into force

First requirements usually (about) 1 or 2 years after publication

Implementation of Regulations

Commission provides:

- References to transitional or final measurement standards (published in the Official Journal of the EU)
- Guidelines (for selected products)
- Energy label templates
- Energy label generator (new)
- Consumer's guides (new)

Enforcement

Market surveillance is the role of national authorities, it includes:

- Inspecting technical documentation
- Product testing
- Inspection of labels in shops and on the internet
- Random and/or risk based sampling
- Cooperation with other market surveillance authorities

Market surveillance regulation 765/2008

- Applies to all Union harmonisation legislation on products
- Applies also to Ecodesign, Energy Labelling and Tyre Labelling
- New proposal under negotiation in European Parliament and Council

Member States' cooperation on enforcement

Administrative Cooperation (ADCO):

- Discuss common challenges
- Agree on interpretation questions relevant to surveillance

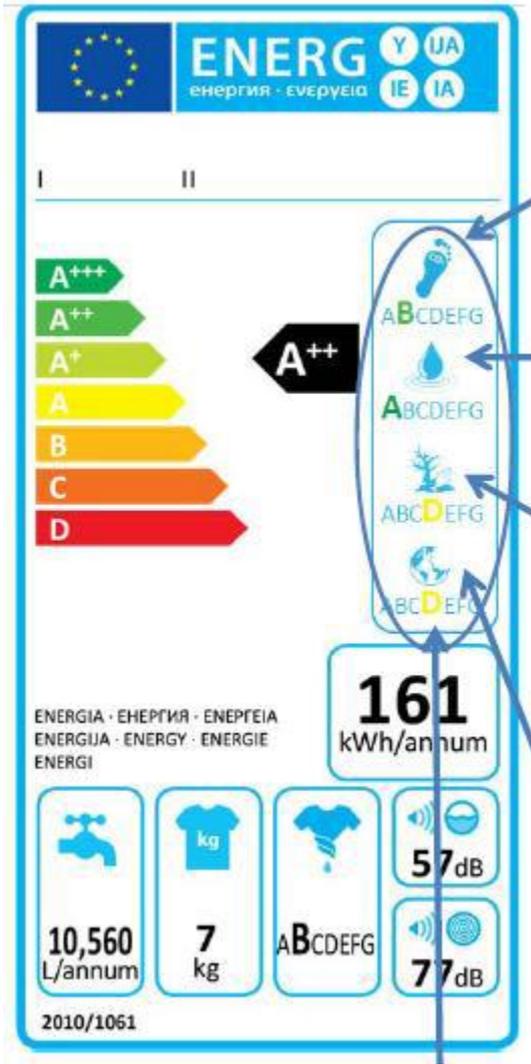
EU-funded projects:

- Joint actions (e.g. testing)
- Common procedures, exchange best practices

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Major challenge(s) - Rescaling



Revision energy label framework 2010/30/EU

New points:

- Rescaling:
 - Only classes A-G available → e.g. A+++ eliminated
- When technological progress makes it appropriate
 - at least 40 % of products sold in A
- **When rescaling:**
 - Technology is expected to develop rapidly:
 - A+B shall be void at the beginning (~10 years)
- **Technology is expected to develop slowly:**
- A shall be void at the moment of introduction (~10 years)
- Ecodesign: If thresholds show that classes D, E, F, or G are not allowed □ shall not be displayed on the label
- New label: 6 months prior to coming into force → supplier has to make both labels available to dealer (can be via online)
- Within 10 days after coming into force: Dealer shall relabel all machines!

Revision energy label framework 2010/30/EU

- New points:
 - Product database:
 - Idea:
 - Help MSAs
 - Provide up to date information for MSA, EU COM as well as the public
 - Content:
 - Manufacturer's / supplier's name or trademark
 - Model identifier
 - Label in electronic format
 - Class(es) and other parameters on the label
 - Product information sheet in electronic format
 - Technical documentation specified in implementing act (**access for MSA and COM only!**)
 - Model identifier of all equivalent models (**access for MSA and COM only!**)
 - Name, address and contact details of the supplier (**access for MSA and COM only!**)

Revision energy label framework 2010/30/EU

old energy label

rescaled energy label

A+++



A

A++



B

A+



C

A



D

B



E

C



F

D



G

X

Thank you

