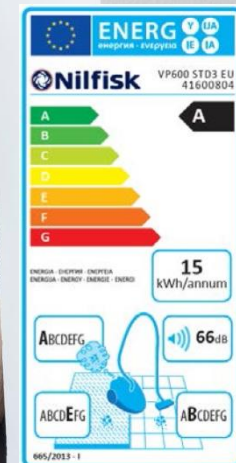


# Energy Label - Chances

## CYS - Lefkosia

13<sup>th</sup> July, 2016



# 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  **Nilfisk**, Ass.: J. Giegerich 



**TC 59** Performance of household & similar electrical appl.



**SC 59F WG6** Performance Standards

Convenor: Ch. Freed  **Nilfisk**



**TC 31** Equipment for explosive atmospheres



**JWG1 SC 61J / TC31 WG28** Vacuum cleaners

Convenor: Ch. Freed  **Nilfisk**



**TC 61** Safety of household & similar electrical appliances



**WG 10** Adaptation to European Directives

Convenor: Ch. Freed  **Nilfisk**

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 man in a dark shirt and pants is using a Nilfisk floor cleaning machine in a modern office. The machine is a large, black, wheeled unit with a long, flexible hose and a cleaning head. The office has large windows with light-colored curtains, a desk with a lamp, and a grey armchair. The floor is dark and polished.

# 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 splash of water with bubbles rising from the bottom, set against a light blue background.

**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



A blue and white Nilfisk SC450 floor cleaning machine is positioned in the center of a modern office hallway. The machine is facing away from the camera, moving down the hallway. The hallway has a polished floor that reflects the machine and the surrounding environment. The walls are white, and there are large windows on the left side. The ceiling is white with recessed lighting. The overall atmosphere is clean and professional.

## 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



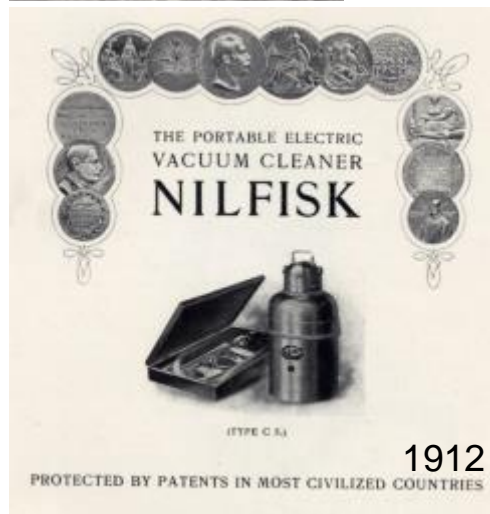
"The Silent Dane" 1932



1945



1960



1912



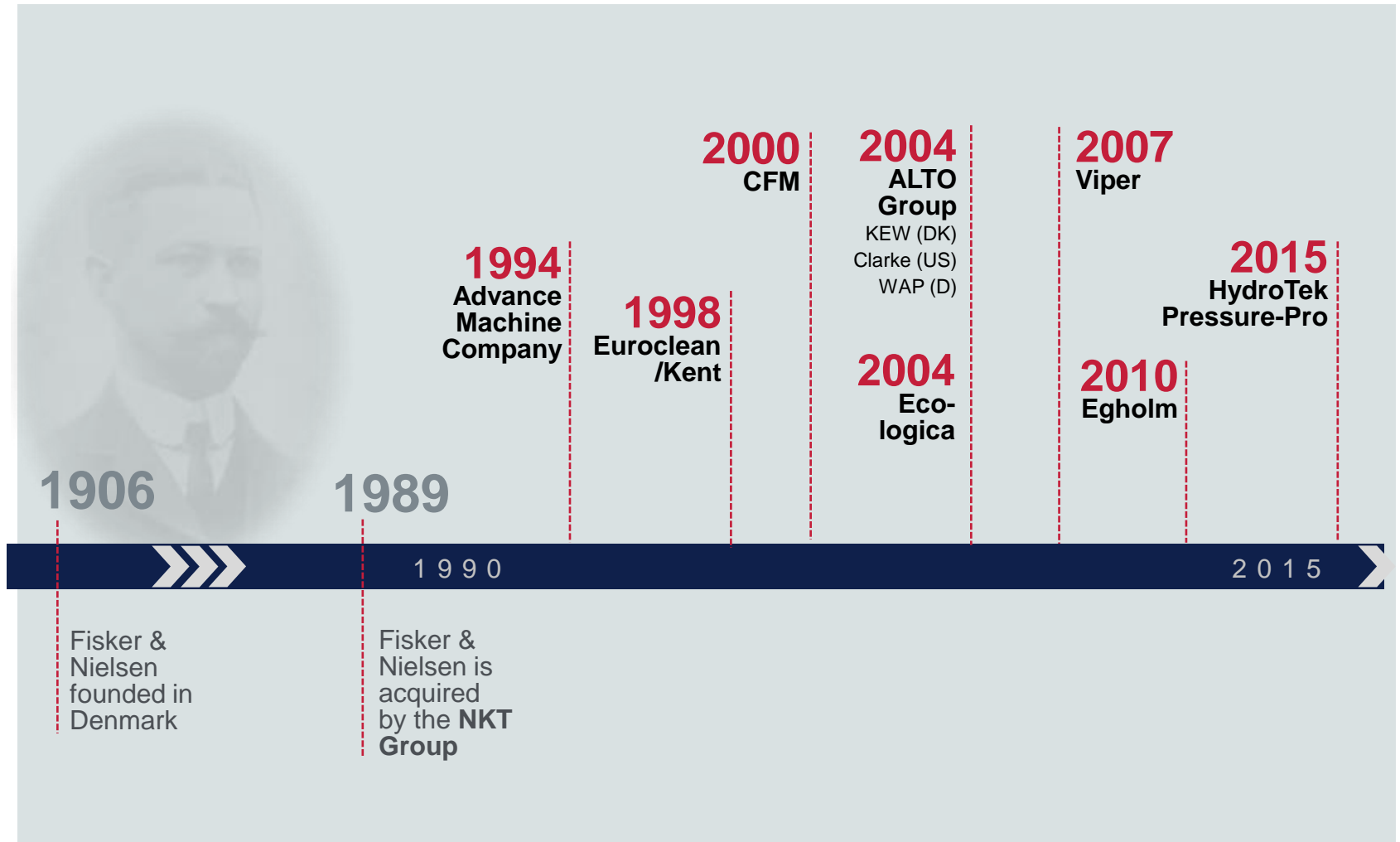
1960s Type F 61



1952

# Nilfisk 1906-2016

110 years of expansion



# Owned by the NKT Group



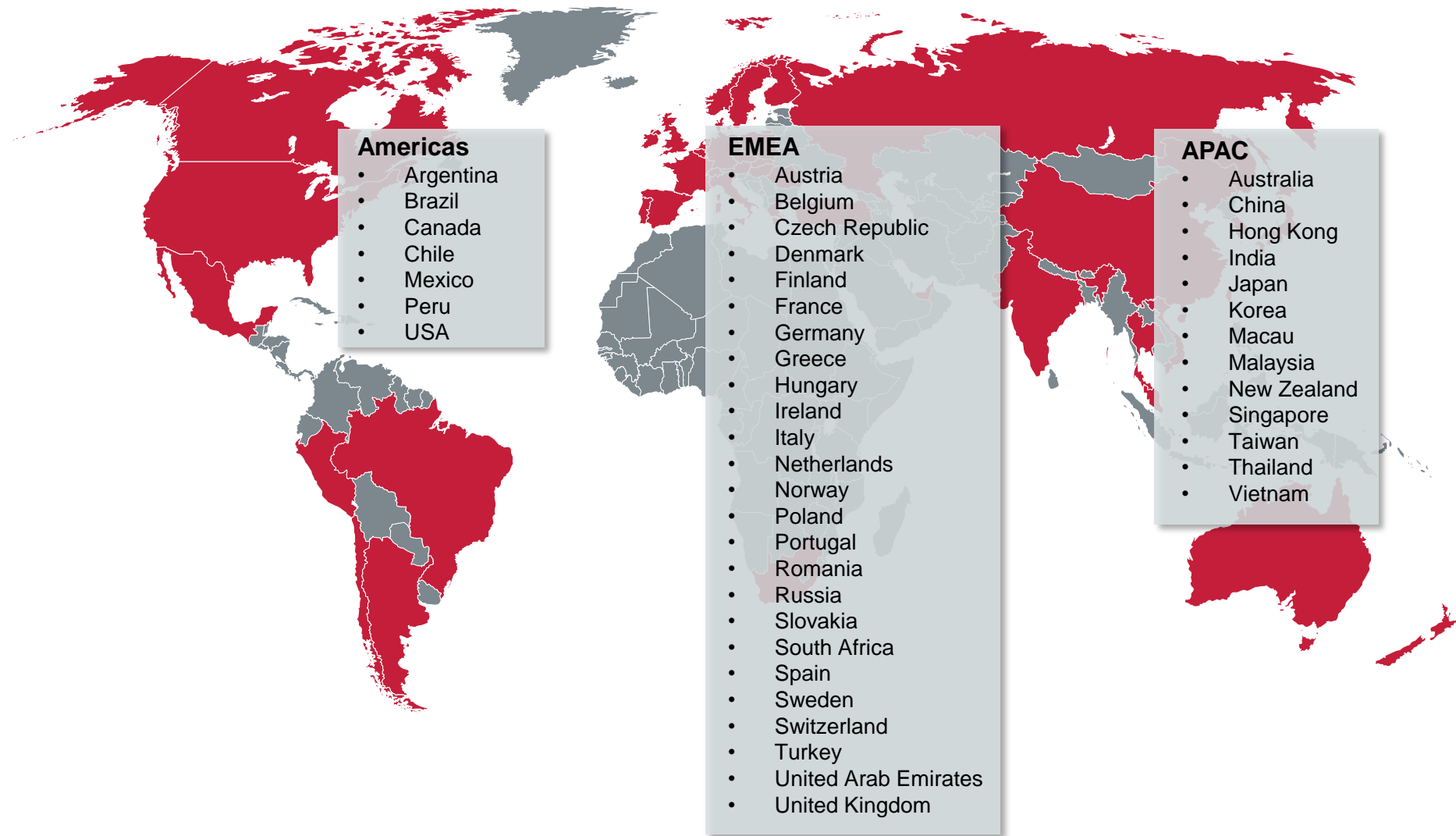
- One of Denmark's major industrial groups with 8,950 employees
- B2B companies with leading positions in their industries:
  - Power cables to the energy sector
  - Optical industry
  - Cleaning industry



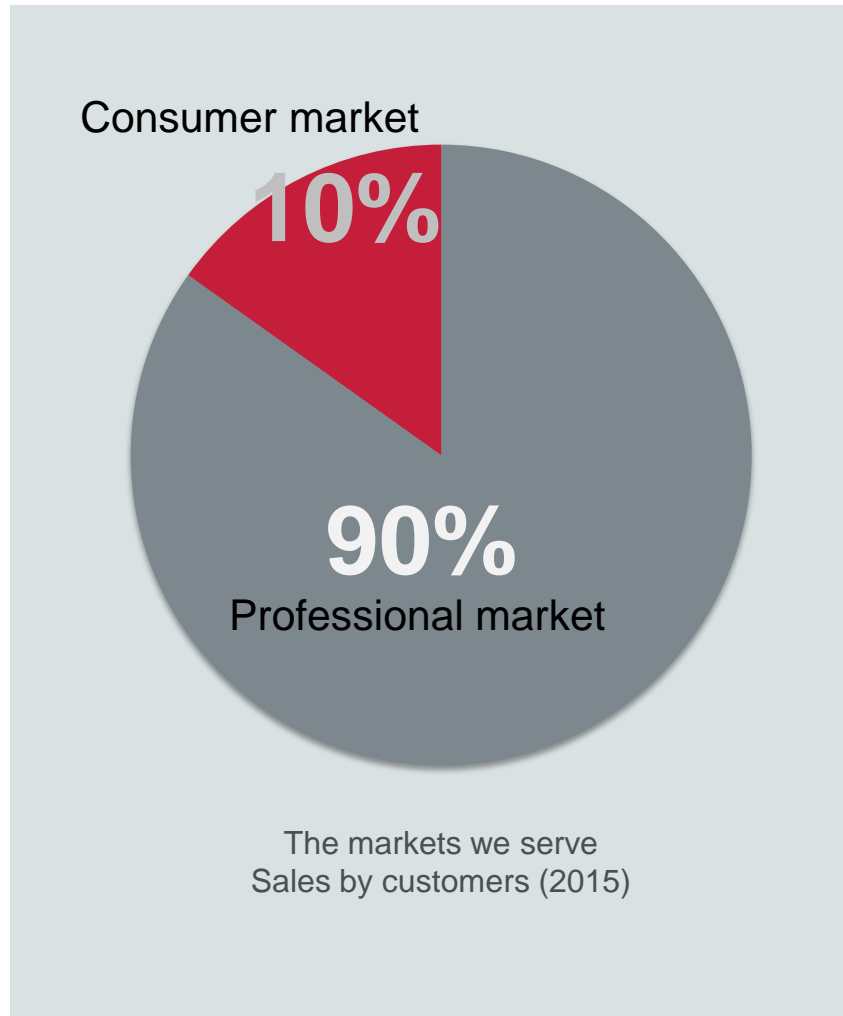
- 2015 total turnover of 2,224 mEUR
- Listed on the Nasdaq Copenhagen Stock Exchange

# 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



# Agenda

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# How do we achieve energy efficiency in product design?

**Combined** effect ensures a dynamic improvement of the market:



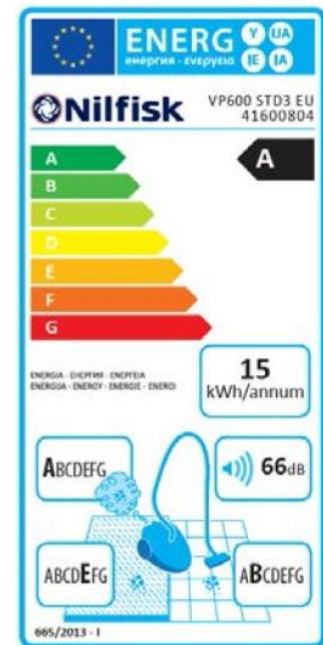
Both Directives are «frameworks» defining the «rules» for setting product-specific requirements through Regulations.

# 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

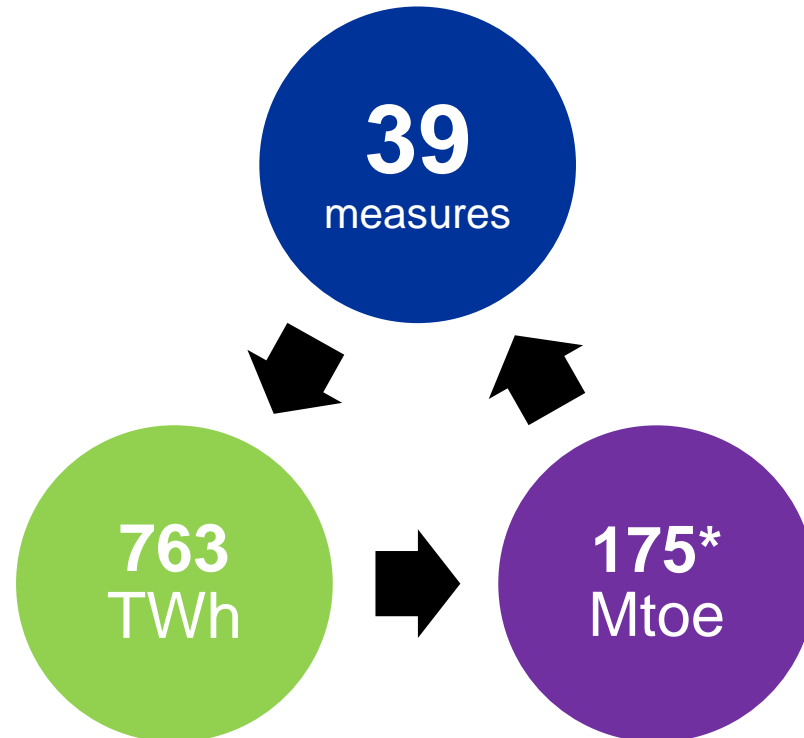
## 24 ecodesign regulations (+4 amendments)

- 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 CO<sub>2</sub> 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

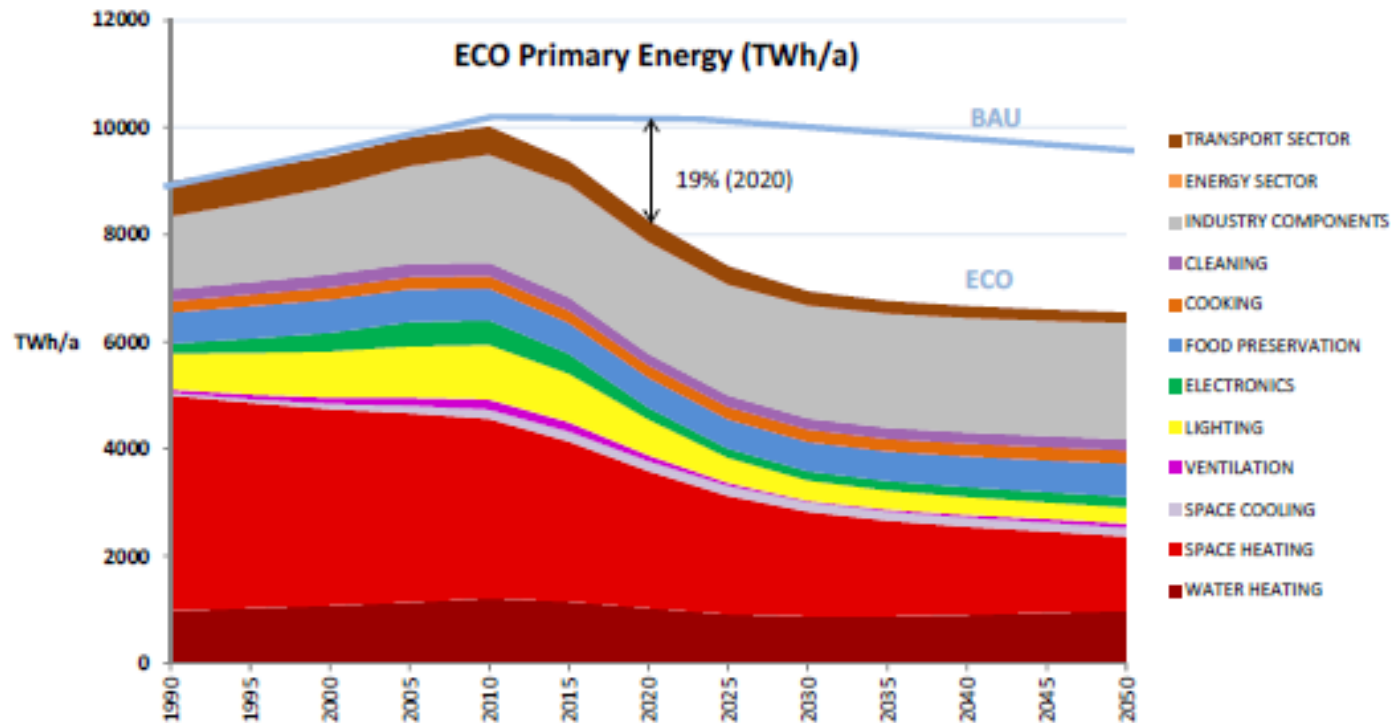


Figure 6. Primary energy consumption of products included in ecodesign impact accounting, status 1 Nov. 2013 (energy sector impact not shown)

# Ecodesign and Energy labelling - Results Achieved

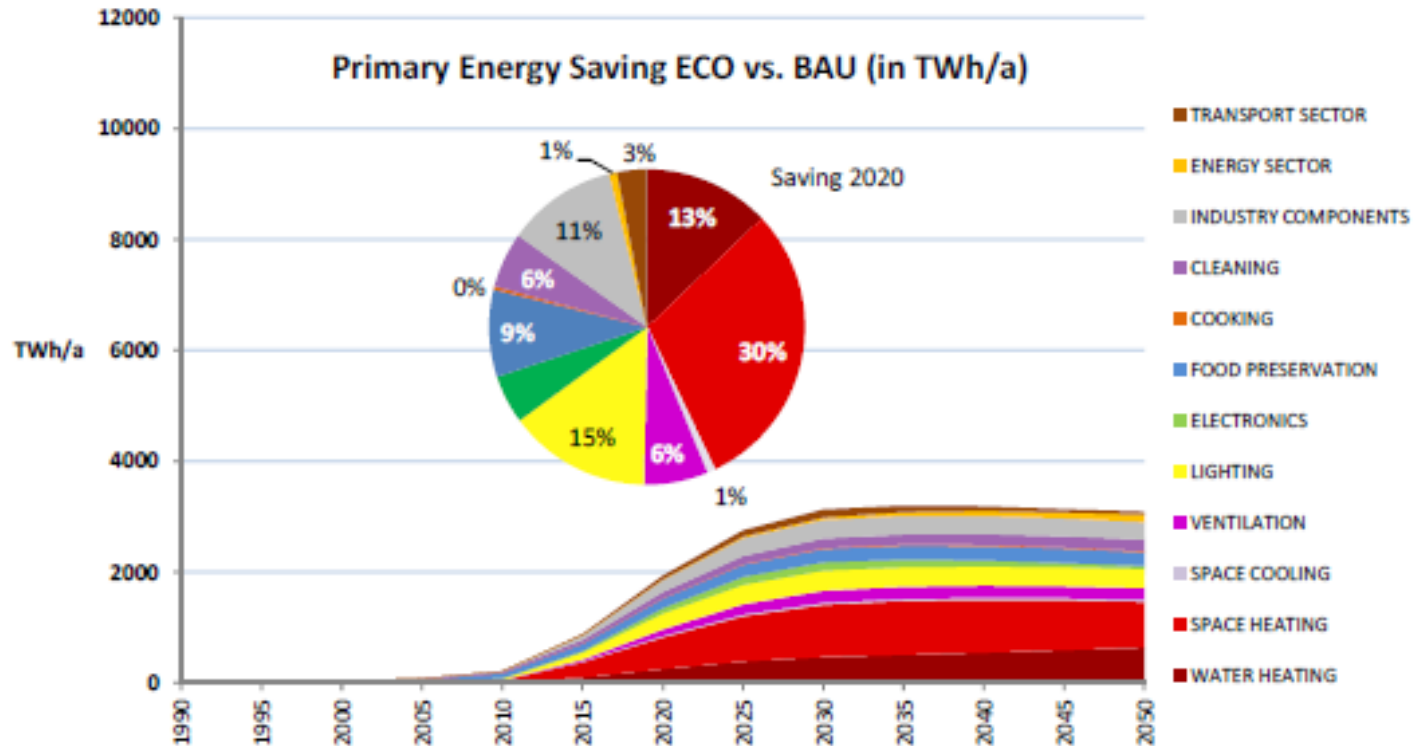
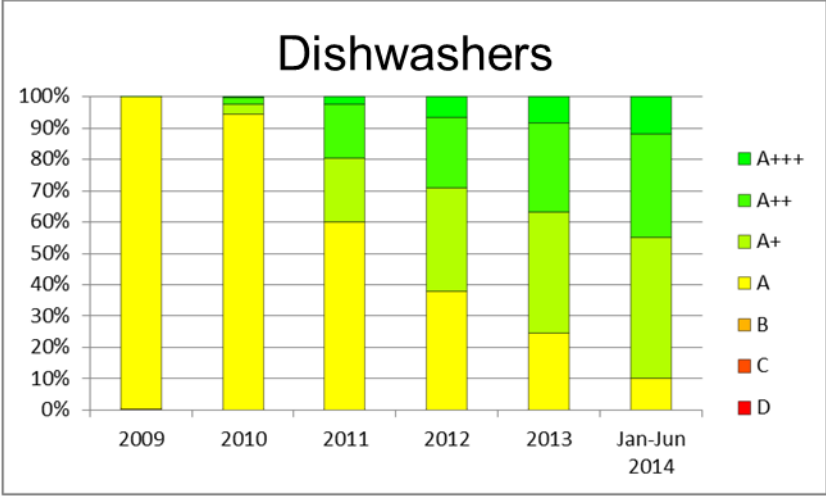
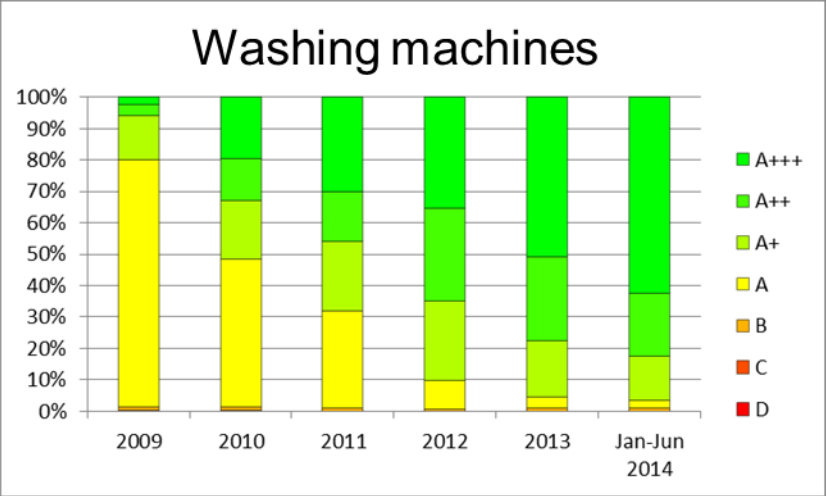
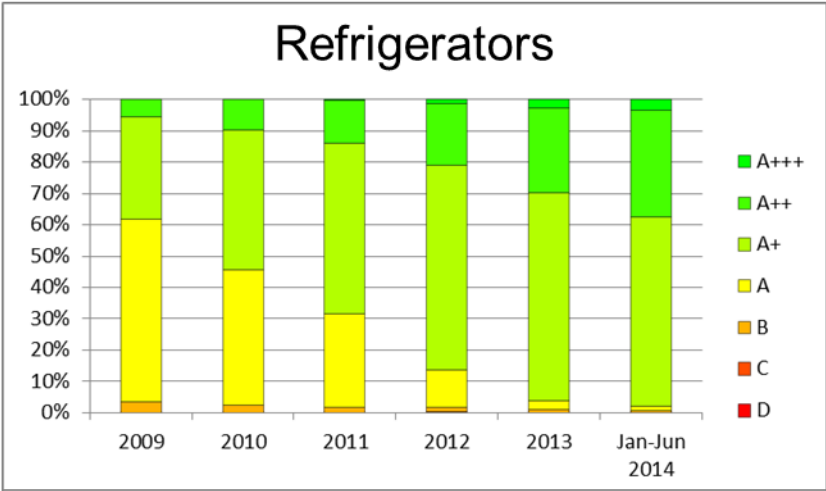
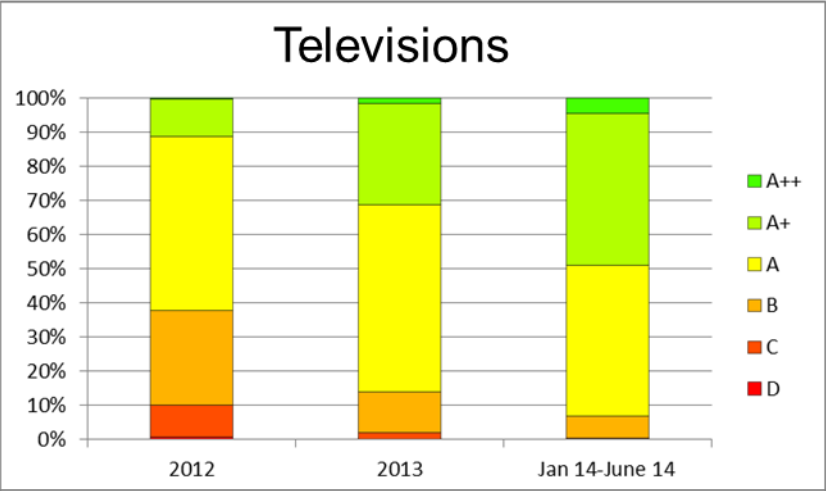
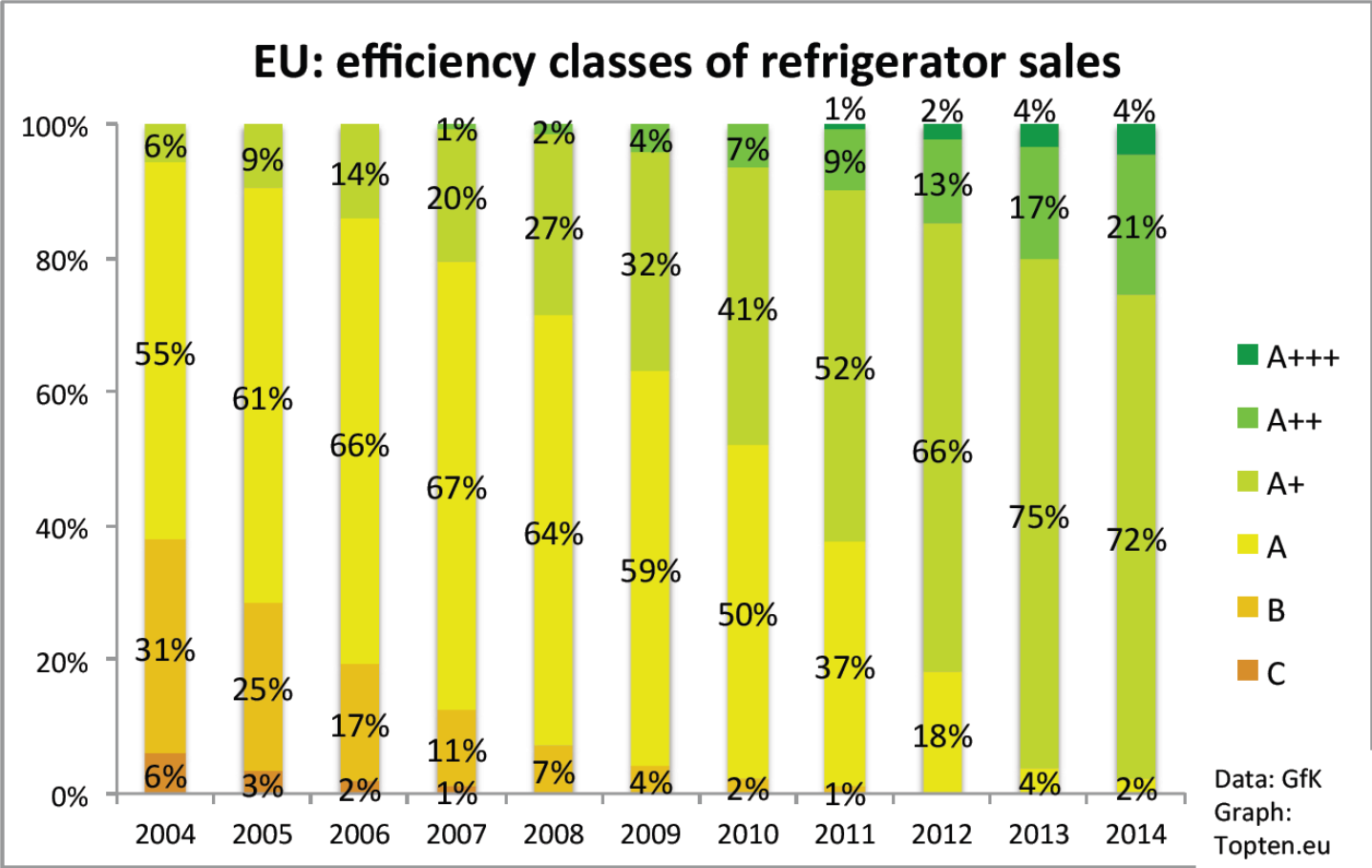


Figure 7. Primary energy saving of ECO versus BAU of products in ecodesign impact accounting, status 1 Nov. 2013

# Market transformation

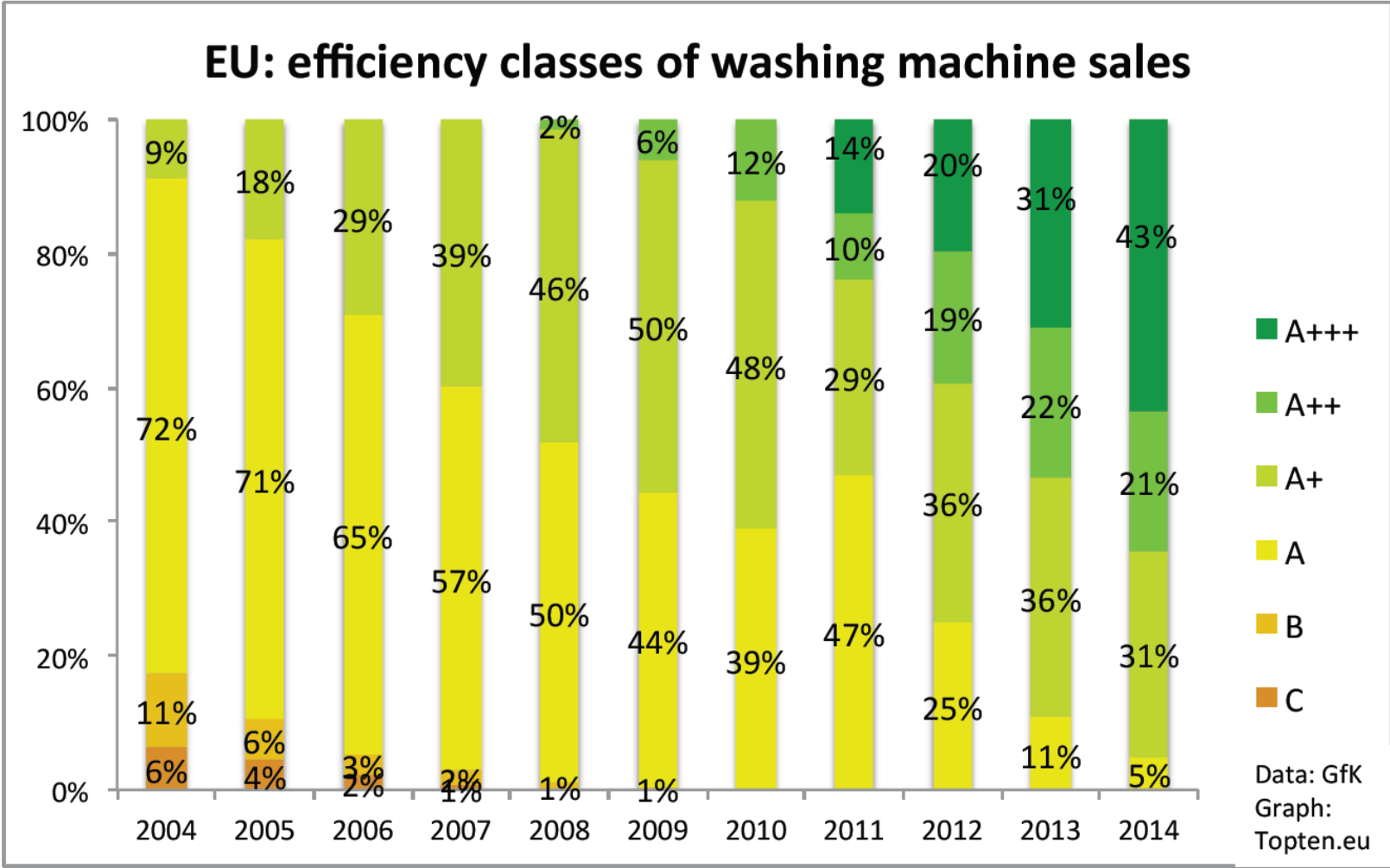


# Market transformation

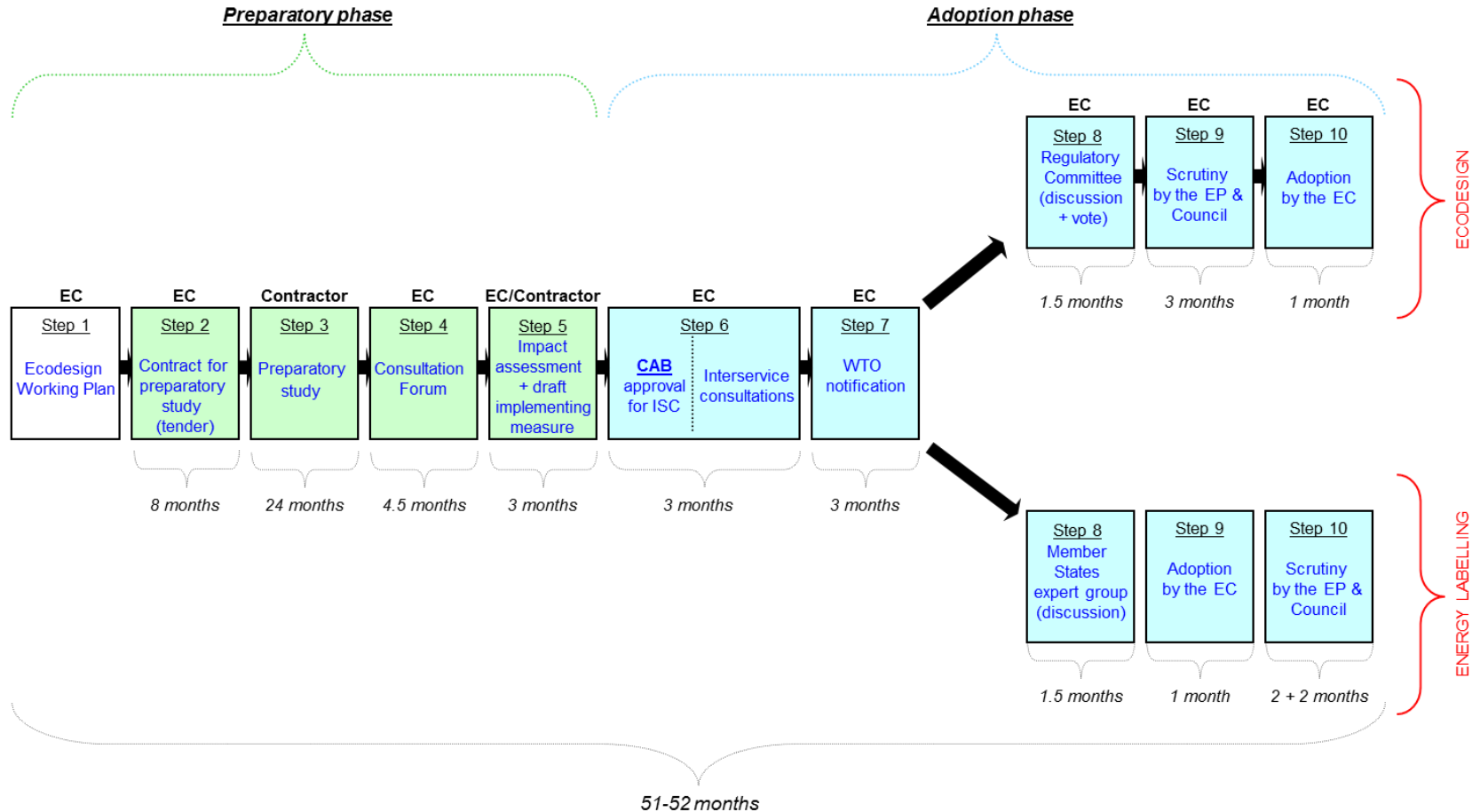




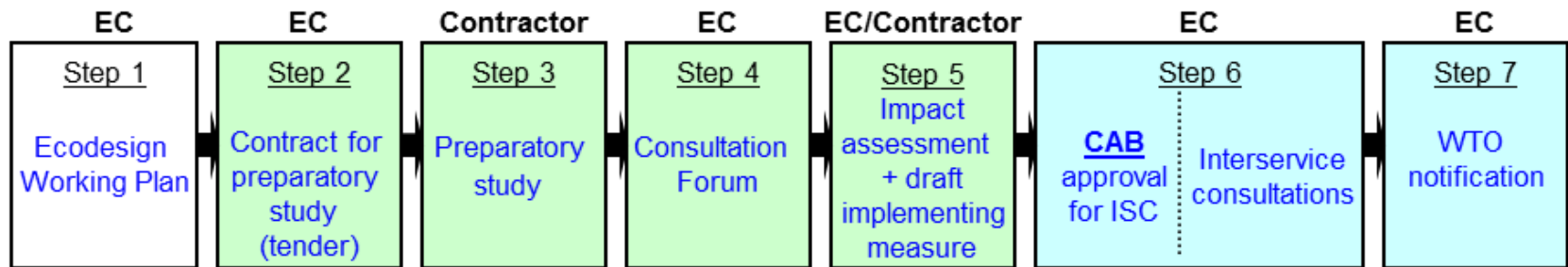
# Market transformation



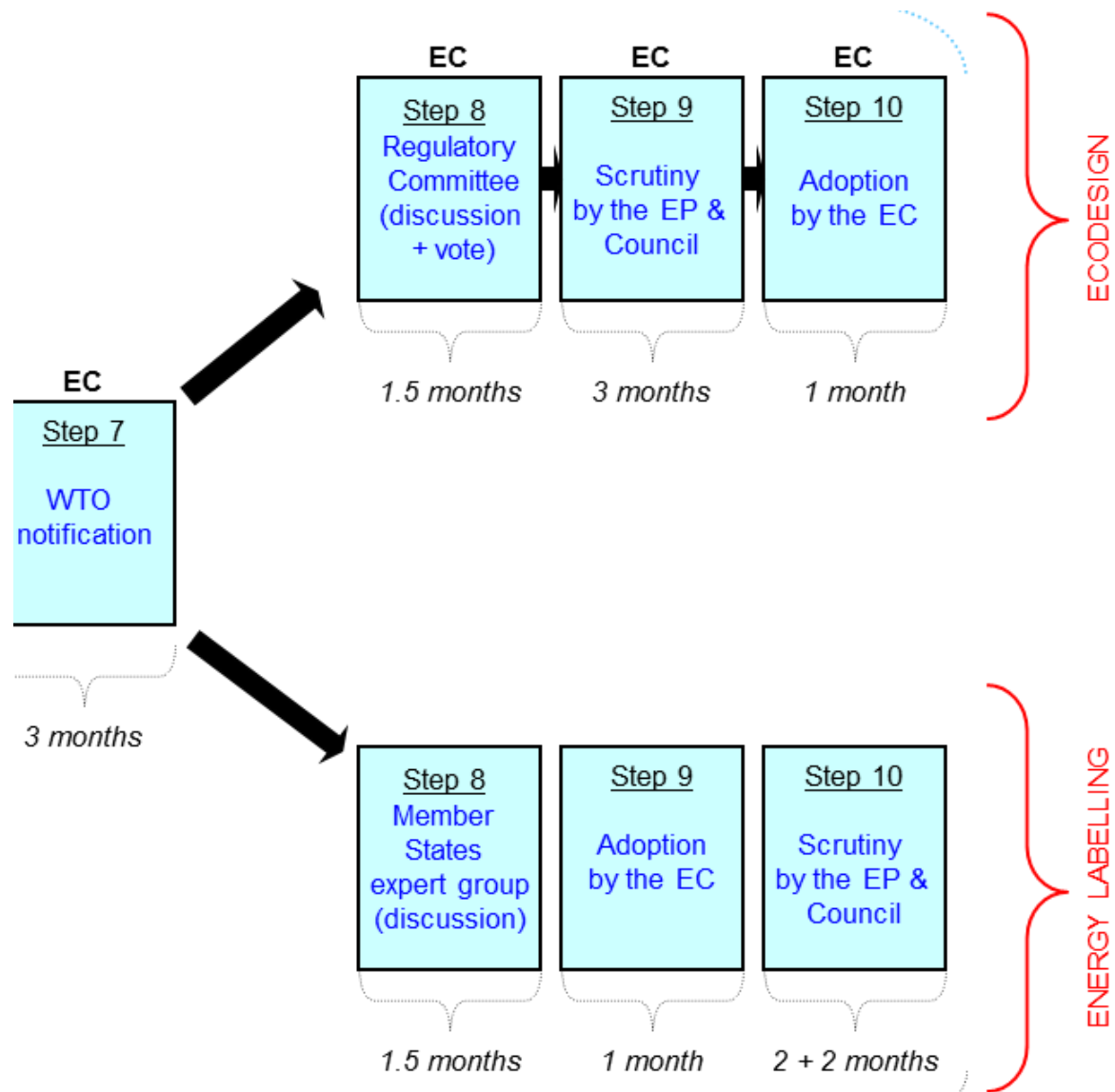
# Process for developing product-specific regulations



# 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

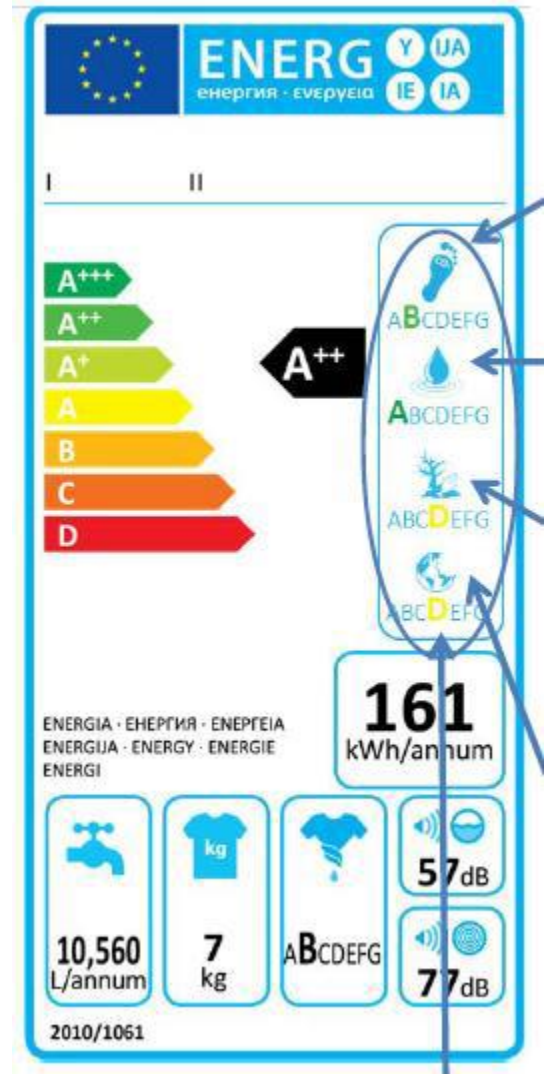
## **EU-funded projects:**

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

# Agenda

- Short introduction Nilfisk A/S
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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+



A



B



C



D



A

B

C

D

E

F

G

X

A woman in a dark blue uniform is operating a grey Nilfisk floor cleaning machine in a modern office lobby. The machine has a large black tank and a red brush. The lobby has large windows, a curved white wall, and red armchairs in the background. The text "Thank you" is overlaid in white on a semi-transparent grey background.

# Thank you