

MOTOR SUMMIT 2020**International**

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Commission

Motor Summit 2020

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The EU's ecodesign policies for
Motors and motor driven
products:
an update
(EU Ecodesign status report)

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What is new since we met last time ?

Content

I. Policy context

II. The new motors regulation

III. Other products

I. Policy context

On the 11 Dec 2019 the European Commission adopted the « European Green Deal », endorsed by the EU Parliament on 15 Jan 2020

It sets out how to make Europe the first climate-neutral continent by 2050, boosting the economy, improving people's health and quality of life, caring for nature, and leaving no one behind



This is a very special day [...] this is Europe's 'man on the moon' moment.



17 Sept 2020 Commission Communication on the 2030 Climate target plan

1. EU-wide, economy-wide GHG emissions reduction target by 2030 compared to 1990 of **at least 55%** including emissions and removals.
2. Corresponds to reduction of **36-37%** of final energy consumption and 39-41% for primary energy (compared to the current 32,5% target).
3. EU product efficiency actions will need to be **intensified**



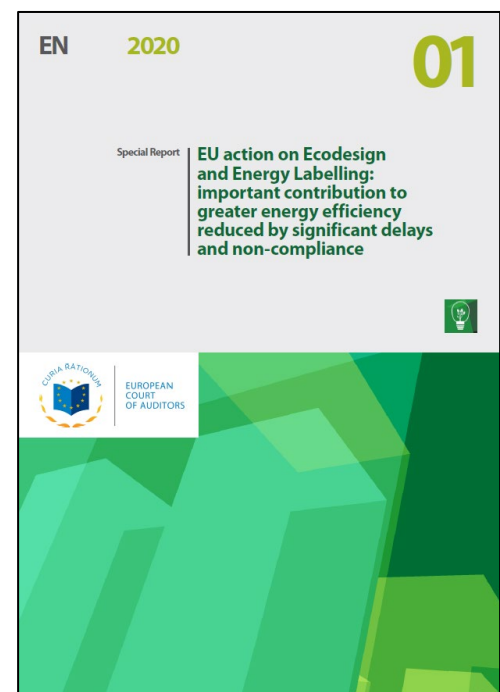
1st March 2020 - Proposal of a Circular Economy Action Plan focusing on sustainable resource use

The Sustainable product policy legislative initiative: the **Ecodesign Directive will be widened** beyond energy-related products so as to make the Ecodesign framework applicable to the **broadest possible range of products** and make it deliver on **circularity**.



The EU Court of Auditors report on ecodesign:

*'EU action on Ecodesign and Energy Labelling: **Important contribution** to greater energy efficiency, **reduced by significant delays and non-compliance**'*



<https://www.eca.europa.eu/en/Pages/DocItem.aspx?did=52828>

The 2019 Ecodesign and energy labelling package: 17 new/revised measures for 11 products !

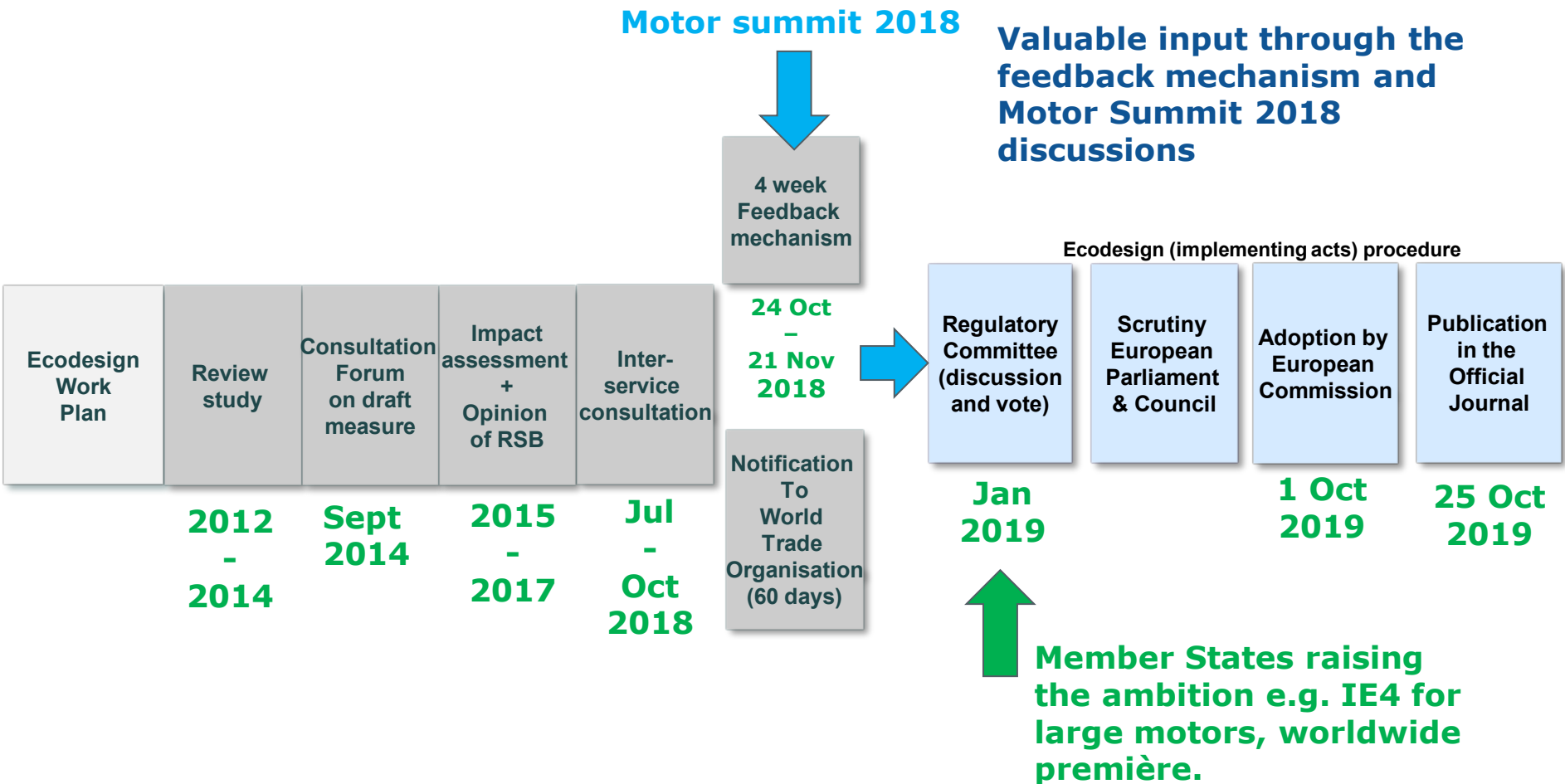
Product Group	New or (R)eview	Ecodesign	Energy labelling
1. Enterprise servers	New	X	
2. Electric motors and VSDs	R	X	
3. EPS (Electronic Power Supplies)	R	X	
4. Power transformers	New	X	
5. Welding equipment	New	X	
6. Commercial refrigeration	New	X	X
7. Domestic refrigeration	R	X	X
8. Lighting products	R	X	X
9. Electronic displays and TV	R	X	X
10. Dishwashers	R	X	X
11. Washing machines	R	X	X

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october
2019

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December
2019




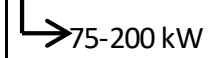





II. The new motors regulation

Review process of the motors Regulation:



Scope and energy efficiency levels: more ambition !

Summary table:

Scope		2017	2018...2020	2021	2022	2023 
AC induction motors <= 1000 V						
0.75-375 kW	3 phase, 2/4/6 poles	IE2+VSD/IE3 				
0,75-1000 kW	3 phase, 2->8 poles			IE3 		
 75-200 kW	2/4/6 poles, excl. ATEX, non-integr. brake and Ex eb					IE4 
0.12-0.75 kW	3 phase 2->8 poles			IE2 		
>= 0.12 kW	1 phase					IE2 
0.12-1000 kW	Incr. safety Ex eb 2->8 poles					IE2 
ATEX and non-integr. brake motors					No more exempt	
Variable speed drives						
0.12-1000 kW	3-phase				IE2 	

Color legend :

Current requirements 640/2009

Requirements new regulation

Other changes

Also:

- Information requirements for both motors and drives, including efficiency at additional load points to enable extended product approach
- 7 years exemption for motors that substitute identical motors integrated in products (spare parts) + other reasoned exemptions
- Special measures facilitating enforcement for large motors
- Anti-circumvention provisions (similar to other new/revised regulations)

Estimated benefits (by 2030):

- **Energy savings of 10 TWh/a and greenhouse gas (GHG) emission savings of 3,2 MtCO₂eq./a**
- **Extra savings on annual end-user expenditure of EUR 1,3 billion and extra business revenue of EUR 0,3 billion per year.**

Provisions to facilitate inspection of large motors by Market Surveillance Authorities (MSAs)

(originating from the EU-funded INTAS project on testing of large fans and large transformers)

Motors with a rated power output of 375 to 1 000 kW:

- MSAs may decide to undertake the verification procedure **at the premises of manufacturers, using its own testing equipment.**
- If factory acceptance tests are planned MSAs may decide to **use witnessed testing during these factory acceptance tests** to gather test results which can be used to verify compliance.
- MSAs may request a manufacturer **to disclose information on any planned factory acceptance** tests relevant for witnessed testing.



'Omnibus amendment' under preparation

(concerns 7 ecodesign measures adopted in 2019)
Clarifications and fine tuning

Status

- *Consultation Forum: 04 June 2020 – ISC in August-Sept*
- *4-weeks Feedback mechanism 06 Oct - 03 Nov 2020*
<https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12471-Energy-efficiency-updated-EU-rules-on-ecodesign-and-energy-labelling>
- *Next step: Committee meeting with Member States*

Content (main changes)

- *60Hz motors tested at 60Hz*
- *For the 7 operating points at part load & speed, the losses shall be determined by direct input-output measurement or by calculation.*
- *Fine tuning date of entry of application for information requirements*
- *Improved definition of VSD*
- *Exemption for VSD sold as a single cabinet, consisting of VSDs which are all in conformity with this regulation*

III. Other motor drive systems products

What's next (for motor driven systems)

Product group	Regulation #	Status	Next step
Circulators	641/2009	Impact Assessment Ongoing	Submission to the Regulatory Scrutiny Board Q2 2021
Pumps	547/2012	Impact Assessment Ongoing	Submission to the Regulatory Scrutiny Board Q3 2021
Fans	327/2011	Interservice Consultation under preparation	ISC Q1 2021
Air compressors	N.A.	Impact Assessment being finalised	Submission to the Regulatory Scrutiny Board Q4 2020, to be confirmed



Thank you for your attention!

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