



Swedish Energy Agency

Meeting today's ecodesign and energy labelling requirements and shaping tomorrow's regulatory frameworks

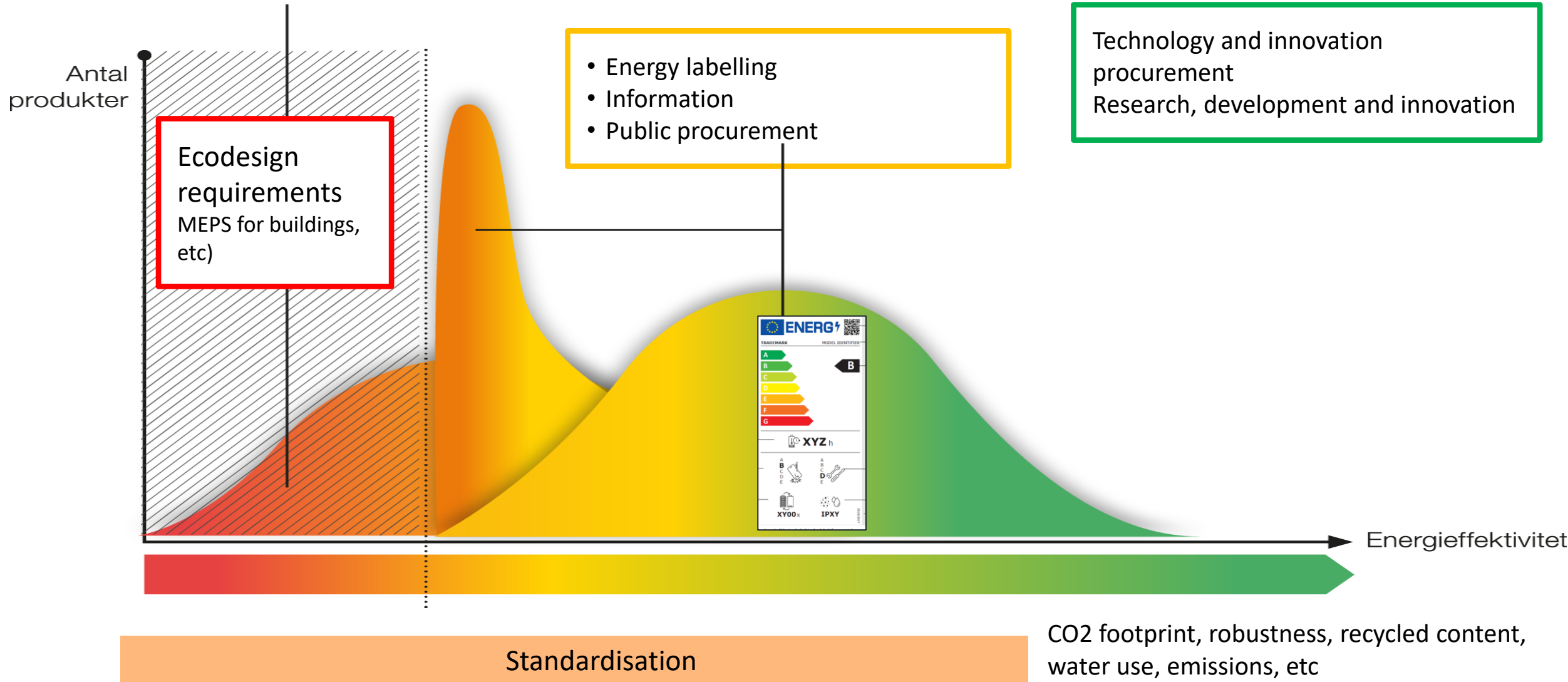


Outlook

- An introduction to ecodesign and energy labelling
- Review of Solid fuel Local space heaters (LSH)
- Review of Solid Fuel Boilers (SFB)
- Actors' obligations: manufacturers, authorised representatives, importers, and retailers
- Performed market surveillance activities



Product policy





Ecodesign regulations

2008/1275	Electric power consumption standby and off mode
2009/107	Simple set-top boxes
2019/2020	Light sources and separate controls
2019/1781	Electric motors and variable speed drives
2009/641	Circulators
2019/2021	Televisions and displays
2019/2019	Household refrigerating appliances
2019/2023	Household washing machines and washer-driers
2019/2017	Household dishwashers
2024/1834	Industrial and building fans
2012/206	Air conditioning, air-air heat pumps and comfort fans
2012/547	Water pumps
2012/932	Household tumble driers
2019/1783	Power transformers
2013/617	Computers and servers
2013/666	Vacuum cleaners
2013/801	Networked standby
2013/813	Space heaters
2013/814	Water heaters & storage tanks
2014/66	Domestic ovens, hobs and range hoods
2014/1253	Ventilation units
2015/1095	Professional refrigeration
2015/1185	Solid fuel local space heaters
2015/1188	Local space heaters
2015/1189	Solid fuel boilers
2281/2016	Air heating, cooling, HT process chillers & fan coil units
2019/2024	Refrigerating appliances with direct sales function
2019/424	Servers and data storage equipment
2019/1784	Welding equipment
2023/1670	Smartphones, mobile phones, tablets
2023/2523	Tumble driers
2024/1834	Industrial fans
2025/2052	External power supplies

Energy labelling regulations

2019/2017	Household dishwashers
2019/2016	Household refrigerating appliances
2019/2014	Household washing machines and washer-driers
2019/2021	Televisions and displays
2011/626	Air conditioners
2012/392	Household tumble driers
2019/2015	Light sources
2013/811	Space heaters
2013/812	Water heaters & storage tanks
2014/65	Domestic ovens, hobs and range hoods
2014/518	Internet energy labelling
2014/1254	Residential ventilation units
2015/1094	Professional refrigeration
2015/1186	Local space heaters
2015/1187	Solid fuel boilers
2019/2018	Refrigerating appliances with direct sales function
2023/1669	Smartphones, mobile phones, tablets
2023/2534	Tumble driers

Voluntary agreements

COM (2012) 684	Complex set top boxes
COM (2013) 23	Imaging equipment
COM (2015) 178	Game consoles

Tyre labelling regulation

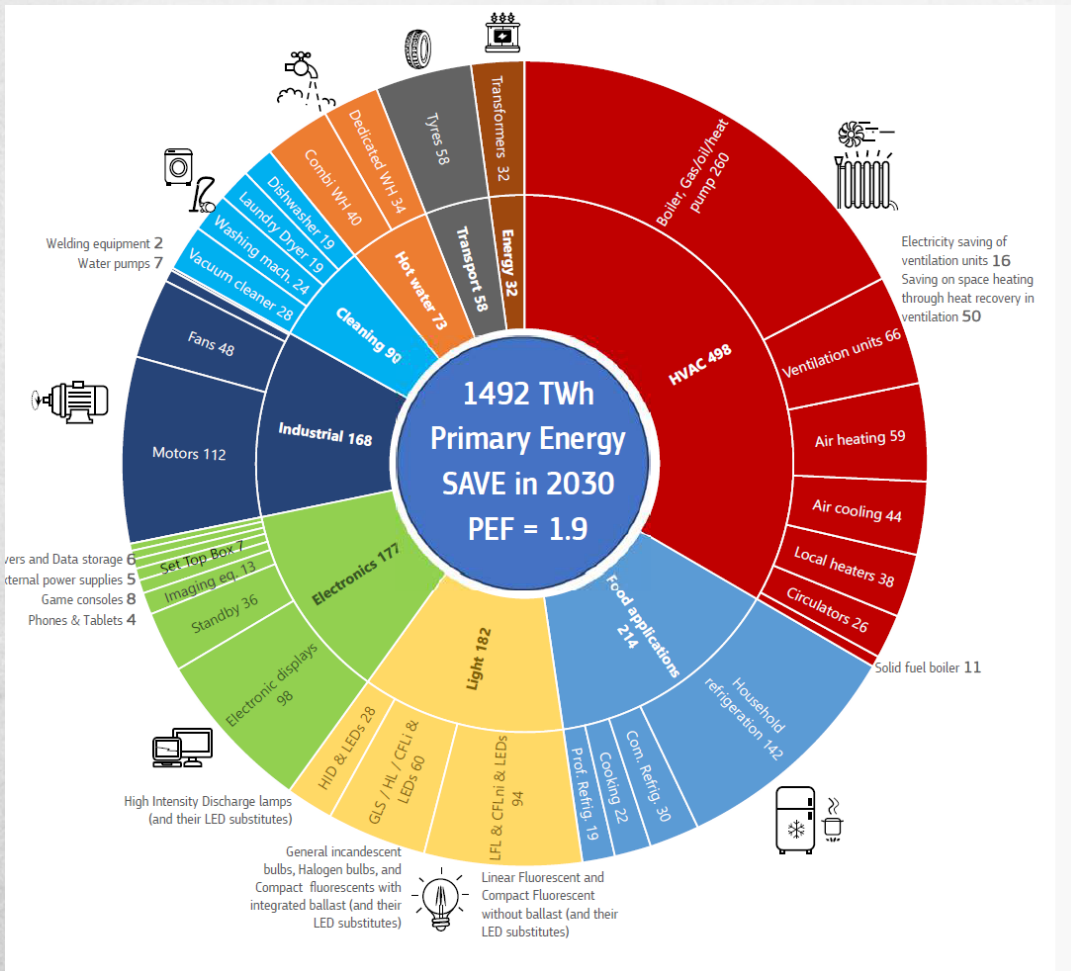
2020/740 (EU)	Labelling of tyres
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Battery regulation

2023/1542	Battery regulation
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~50 regulations for ~ 30 product groups provide savings

Products regulated under ecodesign
51% av EU:s energy use



	2020	2030
Energy savings % of products regulated	10%	18%
Energy savings % of total EUs energy use	7%	9%
Reduced GHG % of products regulated	9%	17%
Nox emissions – reduction	35%	72%
PM emissions - reduction	6%	34%

- ✓ Water savings
- ✓ Increased material efficiency
- ✓ Promotes innovation
- ✓ Consumer savings 473 EUR/year (running costs)
- ✓ Increases energy independency

Ecodesign directive for energy related products (ErPs)

- Framework legislation
- Scope
- Aspects
- How to set requirements
- Market surveillance
- *No requirements in the directive*

ESPR Ecodesign regulation for sustainable products

Working plan 3-year period

- New product groups
- Reviews
- Horizontal measures

ESPR Working plan at least 3 years

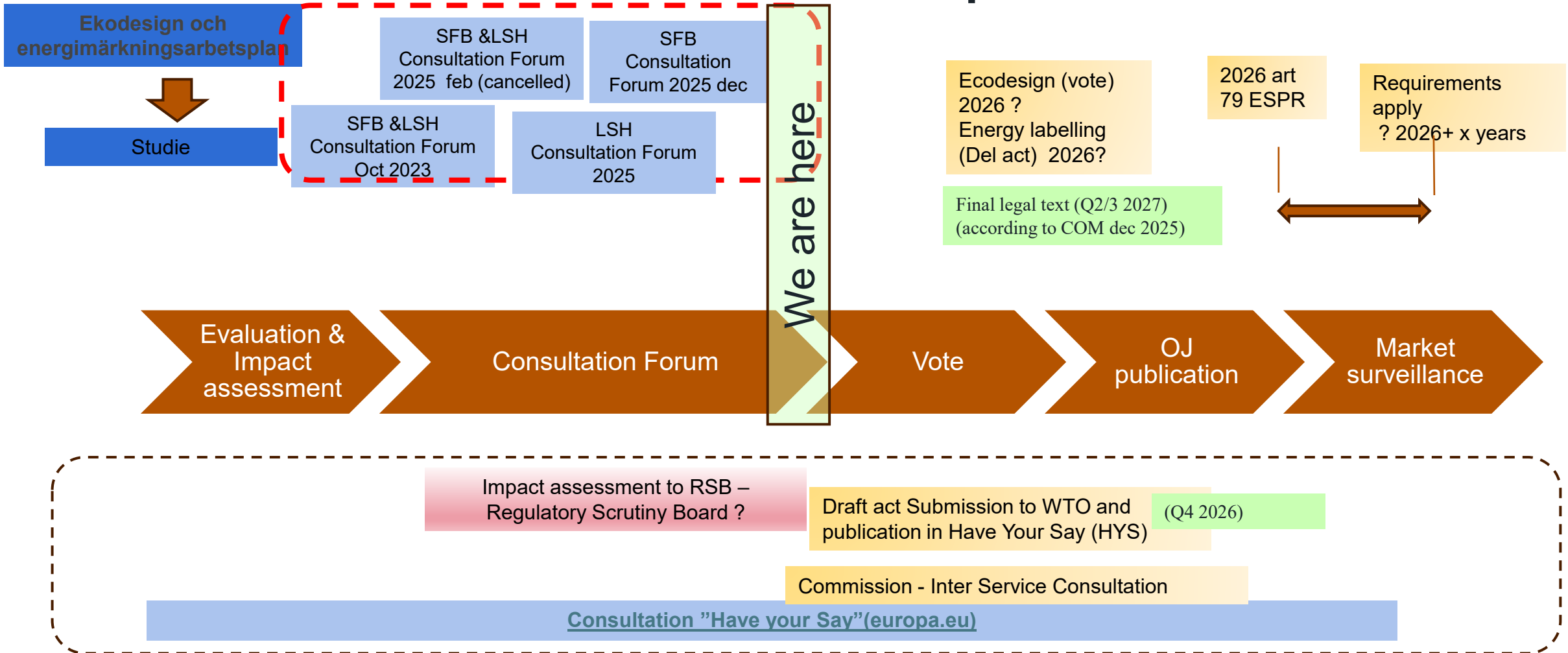
Requirements by product group

COM regulations

ESPR COM regulations



Decision making process – forecast for solid fuel boilers and local space heaters





Review of ecodesign and energy labelling regulations for LSH and SFB – Mandate and objectives

- Mandate to review the requirements in the present ecodesign and energy labelling regulations
- Zero Pollution Action Plan (ZPAP) points to biomass burning as a future challenge to the objective of reducing air pollution by more than 55% by 2030
- Air pollution emissions have declined in the last two decades, but air pollution remains the largest environmental health risk in Europe (according to European Environmental Agency)



Local Space Heaters - Possible content of the review (own interpretation)

Scope	<ul style="list-style-type: none">▪ Include non-woody biomass
Test method and conformity assessment	<ul style="list-style-type: none">• Third party conformity assessment• Test method that better reflects real life - Different from CPR?
Energy efficiency thresholds	<ul style="list-style-type: none">▪ Increase stringency - moderately?
Pollutant emissions thresholds	<ul style="list-style-type: none">▪ Increase stringency – significantly?
Other requirements	<ul style="list-style-type: none">▪ Technical requirements such as ACC ?▪ Material efficiency requirements (repairability, etc)
Energy labelling	<ul style="list-style-type: none">▪ Possible common label or scale with other local space heaters such as air-air heat pumps, electricity radiators, gas heaters▪ No BLF – Biomass Labelling Factor → lower class▪ Pollutant emissions scale ?



Solid Fuel Boilers - Possible content of the review (own interpretation)

Scope	<ul style="list-style-type: none">▪ Ecodesign: Extend from 500 kW to 1 MW▪ Energy labelling: keep at 70 kW▪ Include non-woody biomass SFBs
Test method and conformity assessment	<ul style="list-style-type: none">- Third party conformity assessment- Test method that better reflects real life
Energy efficiency thresholds	<ul style="list-style-type: none">▪ Increase to least life cycle cost level ? Moderate increase?
Pollutant emissions thresholds	<ul style="list-style-type: none">▪ Increase stringency - moderately or significantly
Other requirements	<ul style="list-style-type: none">▪ Material efficiency requirements (repairability, etc)
Energy labelling	<ul style="list-style-type: none">▪ Removing the BLF – Biomass Labelling Factor (from 1,45)▪ Rescale the label, same as space heaters (lot 1)▪ Same scale as other space heaters (electricity, gas, oil) but separated regulation to allow state subsidies for two highest populated classes▪ Pollutant emissions scale

Actors' obligations: manufacturers, authorised representatives, importers, (supplier for energy labelling)

(check the definitions in art 2 of the Ecodesign directive)

Ecodesign

- EU Declaration of Conformity
- CE marking
- Technical documentation demonstrating that the product meets the requirements (for MSAs)
- Product information on the web, user manual, product and/or packaging according to each product regulation

Energy labelling

- EPREL: [Database for energy labelled products \(Commission\)](#)
- Register supplier
- Register model
- Enter/upload public information
- Enter/upload technical documentation for MSAs
- The label and product information sheet are generated by EPREL (in all languages)

Lyssna

Skyldigheter och ansvar

Är du tillverkare, importör eller återförsäljare? Här kan du läsa mer om de olika rollerna och vilket ansvar du har gällande krav på ekodesign och energimärkning för olika typer av produkter.

Övergripande

- Ekodesigndirektivet
- Förordning energimärkning (ramförordning)
- EU-kommissionens frågor och svar

Skyldigheter och ansvar

Lyssna

EPREL - Europeisk databas för energimärkta produkter

EPREL (European Product Registry for Energy Labelling) är en databas där energimärkta produkter ska registreras innan de sätts på EU-marknaden.

EPREL

- Information om EPREL hos EU-kommissionen
- Samarbetsyta för arbetet med EPREL
- Logga in i databasen

Guider

- Guideline för EPREL

Actors' obligations: Dealers

(check the definitions in art 2 of the Energy labelling regulation)

- Energy label must be displayed
- Product information sheet must be accessible
- Ads and technical marketing materials must show the energy class and scale

The European Product Registry for Energy Labelling (EPREL) helps consumers find the most efficient energy-labelled products.

[Visit EPREL >](#)

[Energy Efficient Products - European Commission](#)



Registering a new model

[Suppliers](#)



Displaying the energy labels

[Dealers](#)

[EPREL Energy Efficient Products - European Commission](#)



EU funded and Nordic market surveillance initiatives

- **JACOP** under Single Market Programme (DG-GROW) – several legislations, incl. Ecodesign, incl. Solid Fuel Boilers
- **EEPLIANT 4**: (LIF) implementation, enforcement, market surveillance of Ecodesign and Labelling regulations. [WP 9 on Local space heaters](#)
- **Nordsyn**: [The working group Nordsyn](#) coordinates the work of the Nordic countries' authorities around ecodesign and energy labelling, and work for better requirements and better market control.



Swedish Energy Agency

Performed market surveillance activities by the Swedish Energy Agency on Solid fuel boilers and Local Space Heaters

- Guidance to actors about their obligations
- Control of technical documentation
- Control of websites
- Control of obligations regarding EPREL
- Testing (in independent laboratories) of SFBs and LSHs
- Reactive cases (from the "whistleblower reporting channel" on the agency's website) which can include one or more activities above mentioned
- Some of the activities above are performed within the framework of the Nordic cooperation Nordsyn or of the EU Concerted Actions



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