

NORDSYN

Nordic Market Surveillance Cooperation

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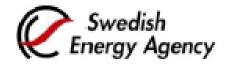
Energiavirasto











- Ecodesign and energy labelling can save 10% of energy use in the EU in 2020 and 500 Euro/household
- ..contribute to energy saving targets as well as climate targets and resource efficiency targets
- Ecodesign facilitates the transition towards a circular economy by ensuring that products can be repaired, reused and safely recycled.
- Efficient market surveillance is essential if this is to be realized
- Nordsyn aim to improve the efficiency of Nordic market surveillance
- Nordic authorities, producers and consumers can benefit and green growth be supported – and it can be duplicated in other regions





Nordsyn:



- Nordic cooperation on market surveillance and policy for ecodesign and energy labelling
- The cooperation started in 2011 and is since 2018 a continuous cooperation with support from the Nordic Council of Ministers
- Project leader Lovisa Blomqvist, Swedish Energy Agency, and an active steering group of cooperating Nordic agencies

Partners Nordsyn:

- Denmark: Energistyrelsen/Danish Energy Agency; Thore Stenfeldt (earlier Bjarke Hansen Peter Nielsen, Charlotta Castenfors Laursen)
- Finland: Tukes/Finnish Safety and Chemicals Agency; Sami Karisola (earlier Teemu Hartikainen, Seppo Niemi, Marika Keskinen)
- Finland: Energiavirasto/Energy authority: Kaisa-Reeta Koskinen

Norway: Norges Vassdrags- og Elektricitetsdirektorat/Norwegian Water Resources and Energy Directorate; Kirsti Hind Fagerlund, Jun Elin Wik Toutain, Ingvill Nilsen Sjövold, Ragnhild Wist, Tore Dyrendahl, Ane Solem Knutsen, William W Rode (earlier Knut N. Knutsen, Bernt Saugen Erlend Sandnes)

Sweden: Energimyndigheten/Swedish Energy Agency;
 Lovisa Blomqvist (project leader), Kadre Pari, Emma Olsson (earlier Lina Kinning, Nils Ahlén, Emma Hagman Rang, Karolina Petersson)



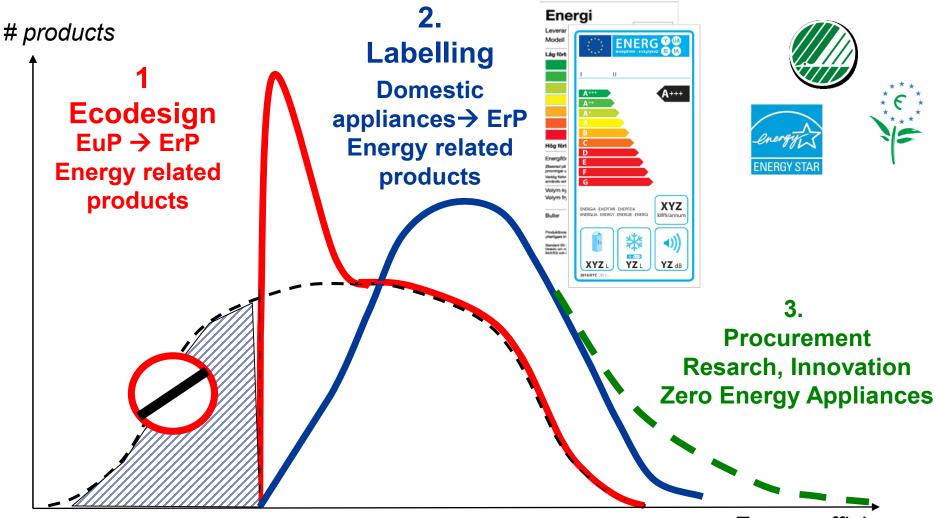


Energiavirasto









Ecodesign takes away the worst performing products and energy labelling gives consumers the possibility to request the best products

Energy efficiency

- 4. Energy consumption
- 5. Resource efficiency

Ecodesign and Energy Labelling Process in EU for each produkt

Preparatory study

Consultation Forum

Committee vote

Publication in OJ

Market surveillance

Furnaces industrial ovens UPS

Waste water and other pumps etc

New for vote 2018:

Servers, data storage mm Vending machines Commercial refrigeration

Central Heating & cooling Prof. Dish&clothewashers Furnaces industrial ovens Compressors

From WP 2012-2014

Windows

Water related products (inc. taps)

Steam boilers (< 50MW) Electric cables

Smart appliances & meters

Conditional:

Insulation material
Power generating equipment

WP 2015-2017 On-going

Revision votes in 2018:

Transformers

Lighting

Washing machines

Dishwashers

Refrigeration household

TV & displays

EPS

Motors + VSD

Fans

Simple settop boxes

Stand-by

Lighting EPS

LFO

Motors

Refrigerators &freezers

TV

Circulators

Fans

Washing machines

Dishwashers

Air conditioners

Pumps

Reflector lamps + LED

Vacuum cleaners

Computers

Network standby

Tumble driers

Space heaters (gas/oil/el)

Dedicated water heaters

Ovens, hobs, range hoods

Transformers

Central ventilation

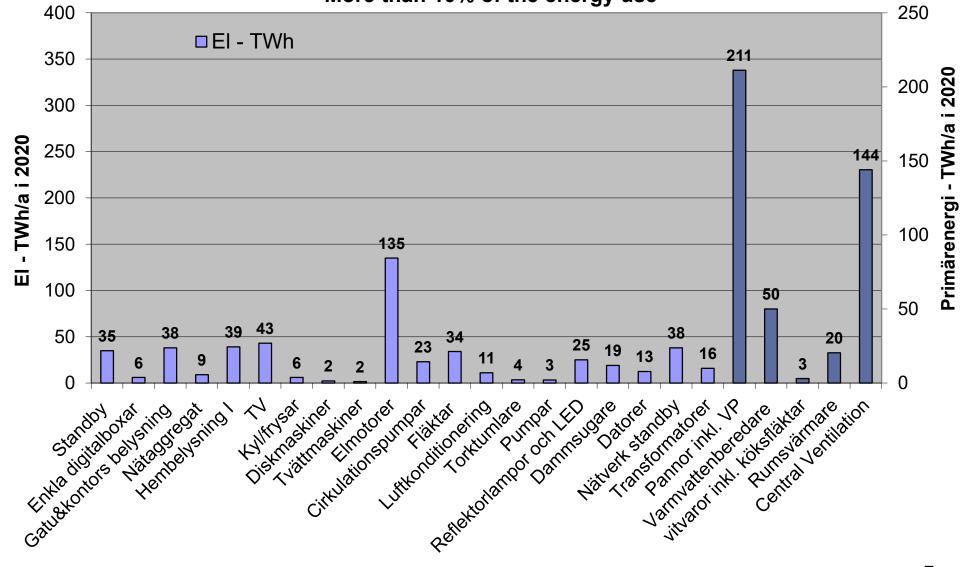
Solid fuel boilers

Room heaters

Professional refrigeration

Ecodesign and energy labelling, savings in 2020 in EU27 - Decided regulations

Ca 500 TWh/year electricity + ca 400 TWh/year primal energy More than 10% of the energy use



Nordsyn Strategy

Nordsyn contribute to **multiply the outcome of market surveillance** costs of each country, by securing better cooperation among authorities (i.e. by sharing market control plans, test results, results of documents' control).

It has also made market surveillance actions more preventive through the development of **hands-on material**, such as information sheets and guidelines.

Nordsyn also gives the **possibility to explore difficult areas** as market surveillance of business to
business products, heat pump regulation in Nordic
climate etc



Nordic testing cooperation 2011

In 2011 the work began to build a close cooperation on the market control of ecodesign and energy labelling to retain a system for coordination and communication of market surveillance plans, test results and experiences from market surveillance in the Nordic countries.

In 2011 "Nordic Testing of Energy Products"

Two market surveillance tests, by testing 11 refrigerators and 11 ballasts, to verify whether they comply with ecodesign and energy labelling requirements. Four products (two refrigerators and two ballasts) did not meet the requirements.



2012: 11 barriers identified

- 1. Transposition of legislation
- 2. Publication of test results
- 3. Sanctions
- 4. Test laboratories
- 5. How much market surveillance/financial differences
- 6. Buy or borrow products for test
- 7. Who pays for the test
- 8. Budget procedures
- 9. Language
- 10. Commercial codes
- 11. Use of databases



Nordsyn 2013-2015

- 1. Strategic Nordic products (2014)
- 2. Working methods (2013)
- 3. Barriers (2013-2015)
- 4. Workshop/conference (2013-2015)
- 5. Information material (2013)
- 6. Challenges for market control (2015)
- 7. Effects of market control (2013-2014)
- 8. Cooperation with customs (2013-2014)
- 9. How small counties work with ecodesign and energy labelling (2013-2014)
- 10. Secretariat: coordination, information and practical exchange (2013-2015)





Projects Nordsyn 2016-2017

- 1. Challenges
- 1.1 Ventiation pilot
- 1.2 Product study prof refrig
- 1.3 Legal issues
- 1.4 Joint test
- 1.5 **Heat pump** study ASHP air-to-air in humid cold climate
- 2. Effects
- 3. Windows
- 4. Information
- 4.1 Film online labelling
- 4.2 Heat pump list prospect
- 4.3 Checklist doc control heat pumps

Nordsyn ongoing 2018

- Heat pump study: air-to-water heat pumps in humid cold climate
- Energy labelling campaign:
 - Film on the product database + guideline
 - FAQ on rescaling + overview information ppt
- Nordcrawl 2: application for market surveillance and policy input
- Windows: based on the performed WSP study the group discuss possible input to Commission



Material

- 37 guidelines for producers on technical documentation (for products like air-conditioning, TV, circulators, lamps, washing machines, motors etc
- 6 fact sheets for producers (heat pumps, boilers, water heaters)
- Film on online labelling
- Exercise and summary on joint document control + checklist doc control heat pumps
- Guidelines for market surveillance in stores and on internet





Deeper studies:

- **Effects** of market surveillance
- Strategic Nordic products heat pumps
- Survey SME; knowledge in heat pump industry etc
- Challenges; market surveillance of complex products, systems, business-to-business products etc. Focus on transformers, ventilation units, professional refrigeration.

Smaller studies:

- Barriers for cooperation
- Cooperation with customs
- How small countries deal with ecodesign and energy labelling
- Strategic Nordic products windows



Effects of market surveillance

This study aim to calculate the achieved benefits of market surveillance carried out 2011-2013 and to estimate potential energy loss due to non-compliant products on the Nordic market



The results indicate:

- -A prevented energy loss worth **28 million Euro** for a market surveillance cost of around 2 million Euro in the Nordic countries i.e. a return on investment (ROI) of 13.
- -An overall rate of **6,3% non-compliance** at a typical level of **35 kWh/y** for the dominant non-compliant appliances, with a wide spread from 1,6 to 700 kWh/y in non-compliance.
- -Saved electricity of **168 GWh** in full lifespan can be achieved from sales of one year if all Nordic countries share and act on all tests.
- -The average total cost per appliance tested in lab was around 5000 Euro, but this varies widely for products.
- -Individual Nordic countries can save a lot on market surveillance expenses when results from other Nordic countries are shared and subsequently increase market surveillance efficiency.





Good outcome

Cooperation on daily basis, discussion of interpretation of legislation, questions from industry, Commission input etc

Sharing and discussion of test results and results of documentation and webb inspections, planning of market control etc



Further possibilities:

- Both policy and market surveillance
- Resource efficiency: reparability, recyclability etc. are hard and costly to measure and robust methods are still to be established.
- Market surveillance of complex products, systems, built-in or b2b products etc are very complex and costly fields.
- Nordsyn offers the possibility to explore these difficult areas and can be duplicated in other areas.



Nordsyn provides significant benefits to Nordic MSAs, producers and consumers, it promotes green growth and energy efficiency and increases Nordic influence in the EU





Thank you!





More information: http://www.norden.org/nordsyn

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Strategic Nordic Products

Heat pumps - strategically important in the Nordic countries due to Nordic industry and climate sensitive

- Overview report in 2014 on legislations, national schemes, recommendations on further actions that could be carried out by Nordic authorities.
- Survey SEM in 2014 to examine knowledge and needs around manufacturers, importers, retailers etc of heat pumps, boilers, water heaters, space heaters, air conditioning, resulting in more condensed information requested in native languages as well as English.
- Document control on heat pumps: checklist + exersise
- Phase 1 Heat pump study: air-to-air heat pumps in humid cold climate to Commission
- Phase 2 Heat pump study: air-to-water heat pumps in humid cold climate ongoing

Windows

- Study conducted by WSP, but further discussion before input to Commission



Barriers

- Discussion based on the Barrier report (2012)
- Joint input from Nordsyn to the evaluation of the ecodesign and energy labelling directive sent Nov 2013 and another input in preparation to be sent in 2015
- Workshop on Sanctions 26 Nov 2013 and workshop on Preventive market surveillance 21 May 2014
- Small study on Identical products
- Further work with still problematic barriers
- Trying to ease the sharing of test results, economic differences,

different policies etc