NORDSYN
Nordic Market Surveillance Cooperation
Lovisa Blomqvist
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• 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

- **Iceland**: Mannvirkjastofnun/Iceland Construction Authority Margrét Ósk Óskarsdóttir, Jóhann Ólafsson (earlier Birgir Ágústsson, Mannvirkjastofnun and even earlier Guðrún Lárusdóttir, Neytendastofa)


- **Sweden**: Energimyndighetens/Swedish Energy Agency; Lovisa Blomqvist (project leader), Kadre Pari, Emma Olsson (earlier Lina Kinning, Nils Ahlén, Emma Hagman Rang, Karolina Petersson)
Ecodesign takes away the worst performing products and energy labelling gives consumers the possibility to request the best products.
Ecodesign and Energy Labelling
Process in EU for each produkt

**Preparatory study**
- Furnaces industrial ovens
- UPS
- Waste water and other pumps etc.

**Consultation Forum**
- Central Heating & cooling
- Prof. Dish & clothewashers
- Furnaces industrial ovens
- Compressors

**Committee vote**
- New for vote 2018:
  - Servers, data storage mm
  - Vending machines
  - Commercial refrigeration

**Publication in OJ**
- Revision votes in 2018:
  - Transformers
  - Lighting
  - Washing machines
  - Dishwashers
  - Refrigeration household
  - TV & displays
  - EPS
  - Motors + VSD
  - Fans

**Market surveillance**
- Simple settop boxes
- Stand-by
- Lighting
- EPS
- 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

**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**
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

Primärenergi - TWh/a i 2020

El - TWh/a i 2020
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.
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)
5. Information material (2013)
7. Effects of market control (2013-2014)
9. How small counties work with ecodesign and energy labelling (2013-2014)
Nordsyn 2016-2017

Projects Nordsyn 2016-2017
1. Challenges
   - 1.1 Ventilation 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](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