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# REEP Plus support for implementation of ecodesign and energy labelling requirements in the Energy Community: sharing experience in Montenegro

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Energy Efficiency Workshop – Implementation of Energy Labelling and Ecodesign  
Requirements

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# Agenda

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- ▶ **Background on ecodesign and energy labelling in Montenegro**
- ▶ **Tasks undertaken / completed so far and major outcomes**
- ▶ **Current support**
- ▶ **Questions / discussion**

# Background on ecodesign and energy labelling in Montenegro

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## ▶ Energy Labelling Directive adopted

## ▶ Ecodesign Directive adopted

At the beginning of the assignment (06/2017) a number of rulebooks / pieces of secondary legislation had already been adopted:

- Televisions
- Refrigerators
- Washing machines
- Dishwashers
- Etc.
- Fluorescent lightbulbs
- Non-directional lamps for households
- Electric motors

**What is the status of adoption of the directives / regulations in your country?**

# REEP Plus Assistance Overview

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- ▶ Inception stage – including stock-take of likely large energy consuming product groups
- ▶ Market analysis of costs and benefits of implementing ecodesign / labelling for 11 product groups (later also analysed a 12<sup>th</sup> (transformers))
- ▶ Assistance in drafting / translation of 5 regulations – later also helping with an additional 8 regulations
- ▶ Guidance notes to inspectors on 6 product groups - understanding obligations of importers, retailers, what information should be on labels, and what is in the ecodesign regulation
- ▶ Training and “training of trainers” for inspectors – 4 total workshops plus additional “ad-hoc” support



# Tasks undertaken / completed so far and major outcomes

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- ▶ **Assignment inception and selection of 10 product types for detailed market assessment / Stock-take of status of eco design transposition**
  - Initial stock-take of what products are likely to have an energy-saving impact from implementation of regulations
  - Prioritized 10 product types (described in previous slides) plus 1 additional to be analysed later (transformers)
  - Useful prioritisation exercise as:
    - Some ecodesign (and labelling) regulations don't have a huge impact due to the international market situation – e.g. computers where the EU market is dominant enough to drive EE for all products
    - Some regulations can have a huge impact – such as for solid fuel space heaters

What are the product groups that use the most energy and where do they come from?

What is produced in your country?



# Montenegro has / had ambitious plans for adopting additional ecodesign regulations by the end of 2017

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1. **Washing machines**
2. **External power sources (EPS)**
3. **Standby regime (Standby)**
4. **Directional lamps**
5. **Room Air Conditioners (RAC) (<12kW) and comfort fans (<125W)**
6. **Refrigerators**
7. **Dishwashers**
8. **Fans with input power between 125 W and 500 kW**
9. **Televisions**
10. Simple set-top boxes for the conversion of digital television signals to analog (STBs)
11. Water pumps
12. Circulation pumps
13. Laundry driers

**Bold – covered in market study and likely have the largest energy savings**



# And 2018...

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- 1. Water heaters and storage tanks**
- 2. Transformers**
- 3. Solid fuel space heaters**
4. Space & combination heaters (boilers & heat pumps)
5. Local space heaters (typically gas, electric radiant (convector) and generally portable)
6. Solid fuel boilers
7. Computers
8. Ovens
9. Vacuum cleaners
10. Ventilation units

**Bold – covered in market study and likely have the largest energy savings**

What product groups would be the most “profitable” for saving energy / money in your country?

# Market analysis - conclusions

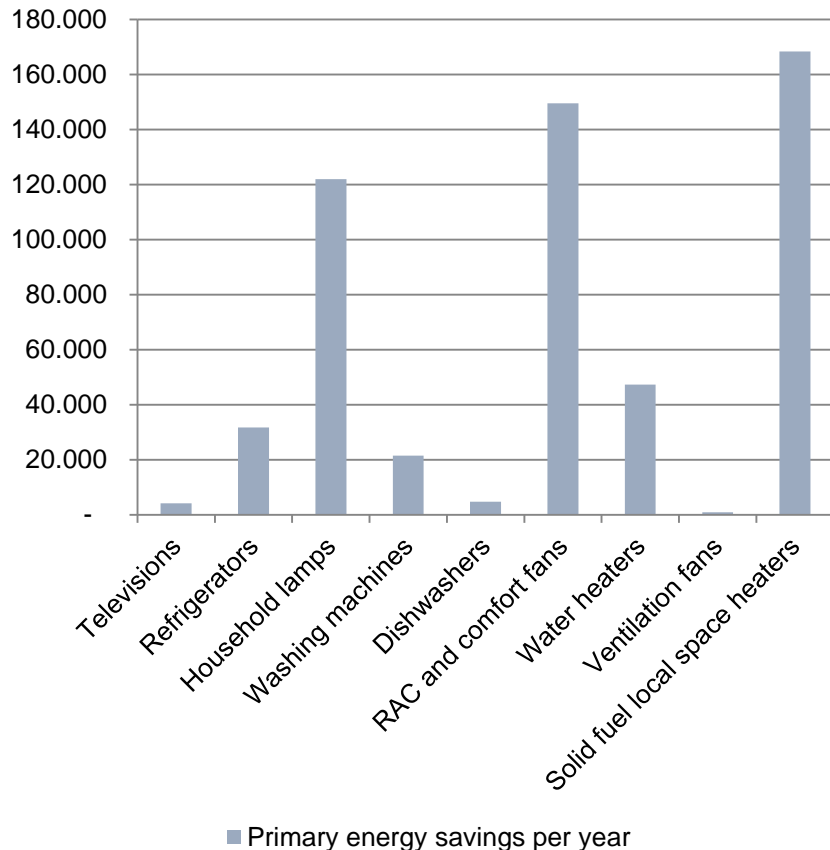
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- ▶ Estimated final energy savings of 181 GWh per year in final energy - 26% of the overall target for Montenegro's Energy Efficiency Action Plan (685 GWh)
- ▶ Reduction of primary energy consumption (savings of 422 GWh) would represent approximately 1.7% of total consumption in Montenegro for 2015
- ▶ 5 groups of products have an investment return period of 2 years or less:
  - Lamps
  - RAC (<12kW) and fans (<125W)
  - Water heaters
  - Fans
  - Solid fuel local space heaters
- ▶ Television research shows that there is very little or no correlation between efficiency and cost - as the price is determined by other aspects of the product



# Market analysis - conclusions

**Primary energy savings per year (MWh)**



Highest priority when it comes to the potential impact of potential energy savings:

- Lamps
- Room air conditioners
- Water heaters
- Refrigerators
- Solid fuel heaters

Of the 9 product groups analysed, the implementation of these 5 products would refer to 94% of the total estimated savings.

# Tasks undertaken / completed so far and major outcomes

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## ▶ **Monitoring, Verification and Enforcement (MVE) protocols design**

- Developed a document for inspectors to introducing the instructing inspectors on what protocols to follow - note that regulations should be published before developing this document

## ▶ **Drafting of Priority Regulations**

- 5 ecodesign regulations translated / adapted for Montenegro – based on the market study. Note that definitions and vocabulary are likely to be the biggest issue – local issue-specific experts are needed
- Tables comparing English and local language created (for tables of concordance)

# MVE roll-out support

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Activities are ongoing

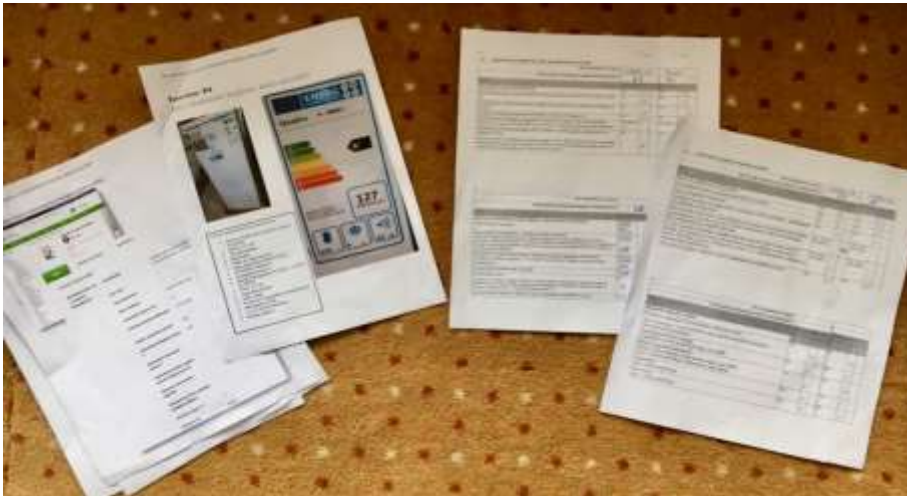
- ▶ Initial training session – January 2018 – 26 attendees including 10 inspectors, Ministry representatives, importers, and retailers
- ▶ Implementation roadmap created based on needs assessment



# MVE roll-out support - Supporting inspectors in undertaking label and document inspection and preparing guidance

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- ▶ Pilot documentation inspection spreadsheet templates created
- ▶ Document training workshop – 8/9 May 2018 for 9 inspectors
  - Practical exercises to assess real energy labels and suppliers' ecodesign information using checklists prepared by the consultant team;
  - The products covered were lamps, household refrigerators, and room air conditioners



# MVE roll-out support - Inspection Workshop – 20/6/2018 – 21/6/2018

- ▶ Day 1: Three ecodesign specialist Inspectors trained to review real technical documentation sets and understand details of how pre-prepared ecodesign inspection spreadsheet tools function.
- ▶ Day 2: Training for whole Inspector team to carry out exercises in evaluating real product technical data sheets for ecodesign compliance using the spreadsheet tools. The specialists Inspectors (and consultants) provided advice and answered queries.
- ▶ Covering non-directional lamps of CFL, halogen, and incandescent types.



# Generic and product specific ecodesign and labelling draft guidance

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- ▶ **Guidance has been delivered for 6 product groups:**
  - Washing machines
  - Televisions
  - Room Air Conditioners
  - Non-direction lighting
  - Directional lighting
  - Refrigerators and freezers
  
- ▶ **Guidance to inspectors on understanding obligations of importers, retailers, what information should be on labels, and what is in the ecodesign regulation**

# Current support: activities planned through the end of the year

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- ▶ Support to the Ministry in technical terminology for finalising 8 rulebooks on:
  - Space heating
  - Water heaters
  - Transformers
- ▶ Market assessment of transformers:
  - Electricity savings represents 0.42% of final electricity consumption from 2017
  - 5 year payback periods when choosing efficient transformers instead of BAU
- ▶ Excel tool / checklist for assessing Room Air Conditioners
- ▶ Market inspection workshop planned for late November on inspection of RAC with review of refrigerators and lamps

How well established are processes for inspection and how do they work?

Who are the importers / distributors / retailers and how does inspection work for current products?

# Questions / discussion

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- ▶ What is the status of adoption of the directives / regulations in your country?
- ▶ What are the product groups that use the most energy and where do they come from?
- ▶ What is produced in your country?
- ▶ What product groups would be the most “profitable” for saving energy / money in your country?
- ▶ How well established are processes for inspection and how do they work?
- ▶ Who are the importers / distributors / retailers and how does inspection work for current products?





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# Thank you!

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