POLICY APPROACHES AND SET OF PROPOSED POLICY OPTIONS FOR ENERGY SMART APPLIANCES

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POSSIBLE POLICY APPROACHES
FOR ENERGY SMART APPLIANCES

Policy instruments
• Ecodesign
• Energy labelling
• Self-regulation (alternative to ecodesign)
• Voluntary labelling (Energy Star, Ecolabel etc.)

Considerations
• Action vs no-action
• Technical vs information requirements
• Mandatory vs non-mandatory
• Horizontal vs vertical
• Standardisation
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## Ecodesign & Energy Labelling Coverage

### For Products in Scope

<table>
<thead>
<tr>
<th>Category</th>
<th>Energy Label</th>
<th>Ecodesign</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Households</strong></td>
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<tr>
<td>Dishwashers</td>
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<td>Washing machines</td>
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<td>Tumble dryers</td>
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<td>Electric storage water heaters</td>
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<td>HVAC cooling</td>
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<td>HVAC heating</td>
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<tr>
<td>Refrigerating appliances</td>
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<tr>
<td>Home batteries</td>
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<tr>
<td>Electric vehicle chargers</td>
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<tr>
<td><strong>Commercial</strong></td>
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<tr>
<td>HVAC cooling</td>
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<tr>
<td>Refrigeration</td>
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<tr>
<td><strong>Commercial &amp; households</strong></td>
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<tr>
<td>Electric radiators</td>
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<tr>
<td>Electric boilers (space/water)</td>
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</tbody>
</table>
ECODESIGN TECHNICAL MINIMUM REQUIREMENTS

MANDATORY

All appliances in scope need to be energy smart

Benefits

• Lower cost per appliance (economies of scale reduces cost)
• Wide penetration – needed for ensure sufficient value
• Kickstart the market – from households to power system

Disadvantages

• Many appliances would not be under agreement = costs without benefits
• Market not matured technologically = higher costs
• Low end products with less functionality requires more upgrading to be energy smart = higher costs
• Only benefit for users if enter agreement & no consumer choice
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Icon on label if complies with technical requirement
Amendment to existing regulation
Separate icon if complies with technical requirement
Amendment to existing regulation
HORIZONTAL VS VERTICAL

Horizontal
• Easy to implement in one regulation..
• .. but amendments to vertical regulations can also be implemented in one regulation
• Harmonised requirements
• Lack of product specific adaptations

Recommended
• Vertical implementation – horizontal set of requirements, where possible
STANDARDISATION

**Typical**

Regulation:
- Requirements
- Overall verification procedure

Standards:
- More details for verification, measurements etc.
- Condition for unit under test, environments, cable lengths etc.

**Energy smart appliances**

Possible content:
- Procedure to verify energy smart functionalities
- Procedure to verify interoperability
- Interoperability standard
The labelling option is the preferred policy instrument
PROPOSED POLICY OPTION
FOR APPLIANCES IN SCOPE

Covered by existing energy label regulation:
• Energy smart icon if comply with techn. req.
• Info: Energy consumption, protocols supported etc.

Not covered by existing energy label regulation, but by ecodesign regulation:
• Energy smart icon as part of info req., if comply with techn. req.
• Info: Energy consumption, protocols supported etc.
• Additional technical req. for energy eff.

Not under either:
• Preparatory studies to be launched
THANK YOU