Clean Energy for all Europeans: with a focus on buildings and the EPBD

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Buildings Performance Institute Europe
QUALICHeCK International Workshop
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Clean Energy for all Europeans Package

- Energy Efficiency Directive
- A communication on accelerating clean energy in buildings
- Ecodesign working plan 2016-2019
- Renewable Energy Directive
- Electricity market and consumers: Electricity Directive, Electricity Regulation and ACER Regulation, and a new Risk Preparedness Regulation
- Governance of the Energy Union Regulation
BPIE assessment

New

- Smartness indicator
- Provisions to protect vulnerable consumers
- Measures to leverage financing

But the proposal fails to trigger more and deeper renovation activities

Missing

- 2030/2050 EU vision for the buildings
- Requirements for better energy performance of public and commercial buildings
- Any changes to EPC towards personalised renovation advice
What has changed?

**RENOVATION STRATEGIES**

- Continuation of national renovation strategies:
  - long term 2050 goal
  - specific milestones for 2030
- National renovation strategies now in EPBD
- Mechanisms to support investment in national renovation strategies
What has changed?

**VULNERABLE CONSUMERS**
- Measures to alleviate energy poverty in national renovation strategies
- Protection of vulnerable consumers from price increases

**FUTURE PROOF BUILDINGS**
- Smartness indicator
- Electromobility infrastructure requirements
- Building automation and energy monitoring system requirements as an alternative to inspections
- Consumer participation in demand response
What has changed?

**ENERGY PERFORMANCE CERTIFICATES (EPCs)**

- Contents list for EPCs
- Requirements to collect energy consumption data for public buildings
- National databases to collect EPC information
- Aggregated anonymised data to be available on request
- Info on building technical system passed to building owner and included in national EPC database
- Linking financial incentives to EPCs – comparison before/after renovation
- Numeric indicator of primary energy use in kWh/(m².y)
# Expected impact of revised EPBD

## Table 8: Comparison of policy options

<table>
<thead>
<tr>
<th>Option</th>
<th>Reference: No-change option</th>
<th>Option I: Enhanced implementation and further guidance</th>
<th>Option II: Enhanced implementation, including targeted amendments for strengthening of current provisions</th>
<th>Option III: Enhanced implementation towards further harmonization and higher ambition</th>
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<tbody>
<tr>
<td>Additional final energy savings in 2030</td>
<td>-</td>
<td>2 Mtoe</td>
<td>28 Mtoe</td>
<td>72 Mtoe</td>
</tr>
<tr>
<td>Additional associated construction activity in 2030</td>
<td>-</td>
<td>€2.15bn</td>
<td>€47.6bn (€1 – €4 bn mandated by the Option)</td>
<td>€101bn (€52 – €59 bn mandated by the Option)</td>
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<td>Economic growth, incl. SMEs in 2030</td>
<td>-</td>
<td>€2.4bn - €10.1bn</td>
<td>€103.8bn - €143.8bn</td>
<td>€197bn - €280bn</td>
</tr>
<tr>
<td>Jobs retained/created</td>
<td>-</td>
<td>9k</td>
<td>220k</td>
<td>500k</td>
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<td>Energy poverty alleviation</td>
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<td>515k - 3.2M households</td>
<td>1.5M to 8.3M households</td>
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What is missing?

**LONG-TERM VISION AND STIMULATING DEEP RENOVATION**

- A concrete EU vision for buildings in 2050
- Definition of decarbonised building stock
- Long-term renovation targets
- Minimum energy performance levels for commercial and public buildings and requirements to renovate
What is missing?

NATIONAL RENOVATION STRATEGIES

• “Trigger points” to capitalise on renovation opportunities
• Clear guidance on national renovation strategies
• Methodology how to measure progress in implementing renovation strategies
• Requirements to regularly update national renovation strategies
What is missing?

**REFORMING THE COST-OPTIMAL METHODOLOGY**

- Inclusion of the multiple benefits
- Link between minimum renewable energy requirements and cost-optimal calculations
- Ensuring demand is reduced first (energy efficiency first)
What is missing?

**PROTECTING VULNERABLE CONSUMERS**

• Tailored policies promoting deep renovation of homes as a long-term solution

**ENSURING FUTURE PROOF BUILDINGS**

• Energy efficiency first within the smartness indicator
• Reflection of smart buildings in the definition of nearly zero energy buildings
• Provisions related to promoting and use of energy storage
What is missing?

**ENERGY PERFORMANCE CERTIFICATES (EPCs)**
- EPCs tailored to advise owners on how to properly plan, finance and implement deep renovation (individual building renovation passport)
- Harmonised EU requirements for qualified experts and certifiers
- Regular quality checks

**FINANCING ENERGY PERFORMANCE IMPROVEMENTS**
- Long-term financing framework to meet the 2030 objectives (public and private financing + suite of instruments)
- Timeline of measures under the Accelerating clean energy in buildings Communication
The path not chosen
# The path not chosen

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Long way ahead
Thank you

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• **Targeted** changes
• Few articles have been modified (7 articles + Annex)
The path not chosen

Direct market action: Standards for buildings sold or rented

New targeted ambition for new buildings in 2030, beyond cost-optimality and minimum requirements for the indoor environment

Additional sustainability co-benefits in the cost-optimal calculation framework

Further harmonisation of the EPCs
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