Clean Energy Package: The Regulatory Framework for post 2020

- Clean Energy for All Europeans Package (8 legislative proposals):
  - Proposal for a revised Energy Efficiency Directive
  - Proposal for a recast of the Renewable Energy Directive
  - Proposal for a recast of the Internal Electricity Market Directive
  - Proposal for a recast of the Internal Electricity Market Regulation
  - Proposal for a recast of the ACER Regulation
  - Proposal for a Regulation on Risk-Preparedness in the Electricity Sector and Repealing the Security of Supply Directive
  - Proposal for a Regulation on the Governance of the Energy Union

- Ecodesign Working Plan 2016-2019

Giving a clear signal to investors that the clean energy transition is the growth sector of the future, both through adapting our legislation and putting on the table an enabling environment
## Energy Performance of Building Directive (EPBD)

<table>
<thead>
<tr>
<th>Main points</th>
<th>COM Proposal for a new EPBD (2016)</th>
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<tr>
<td></td>
<td>• Strengthened long term building renovation strategies</td>
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<td>• Support for electro-mobility</td>
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<td>• Stronger link between financial measures and building renovation</td>
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<td>• Higher thresholds for heating and air conditioning systems and promotion of electronic monitoring</td>
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<td>• Updated definition of Technical Building Systems (TBS)</td>
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<td>• Introduction of a Smart Readiness Indicator (SRI) for buildings</td>
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<td>• Increased transparency of calculation methodologies, raised awareness on good indoor environment, and comfort levels, better take into account renewables.</td>
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<td>• THE &quot;SMART FINANCE FOR SMART BUILDINGS&quot; INITIATIVE</td>
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<th>Lighting and indoor air quality</th>
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<td>• Definition of technical building systems includes built-in lighting</td>
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<td>• The energy performance of a building shall reflect its typical energy use for heating, cooling, domestic hot water, ventilation and lighting</td>
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<td>• Annex I is updated to improve transparency and consistency in the way energy performance is determined at national or regional level and to take into account the importance of the indoor environment.</td>
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State of Play EPBD revision

26 June
The Council adopted its General Approach

7 September
ENVI adopted its (non-binding) opinion

11 October
ITRE is scheduled to vote its report

November
Start of trialogues

In parallel to ongoing work on implementation of the current EPBD:

» Adoption of CEN standards on EPBD: toolbox for better implementation
» EU Building Stock Observatory, supported by additional data gathering
» Relevant Studies

Promoting healthy and highly energy performing buildings in the European Union (to be published soon)
(a) implementation status of the EPBD relating to ventilation, indoor air quality and energy performance criteria and requirements
(b) assess avoidance of possible negative effects on the comfort, health and productivity conditions of the buildings’ occupants
(c) recommendations to enable the effective implementation of healthy and highly energy performing buildings in the EU

Smart Readiness Indicator: scoping and technical support

» EPBD Concerted Action: next meeting in Bucharest 25-26 October 2017
» Upcoming: NZEB targets, 2018 cost-optimal calculations, reinforcement of EPC quality and implementation
Ecodesign: LOT 37 on Lighting systems

» Feasible to set ecodesign requirements and/or energy labelling for Lighting systems? The ‘System level’ makes this case special.

» Discussion on-going on:

1. Considering an installed lighting system as a ‘product’? (full coverage)
2. Considering whether the full lighting installation, operation and maintenance process falls within the scope? (partial coverage)
3. Having product requirements related to particular lighting system applications?

» Limited preparatory study finalised in February 2017. "Limited" meaning no task 5 & no task 6 (on environment and economics including LCA) of the MEErP*

* Methdology for Ecodesign and Energy-related Products
Ecodesign: LOT 37 on Lighting systems

MAIN CONCLUSIONS SO FAR:

» **Scope of the study:** lighting systems that provide illumination to make objects, persons and scenes visible according to parameters from European standards

» A "Lighting system" has four components:

1. **Installation** (e.g. covered by EN 12464-1 Lighting of work places and EN 13201 Road lighting)
2. **Luminaires, light sources, control gears** (Lot 8/9/19)
3. **Controls** (covered by e.g. EN 15193 and EN 13201-5 on automatic detection and daylight responsive control systems)
4. **Design and calculation software** (e.g. EN 13032)
Ecodesign: LOT 37 on Lighting systems

» Number 2. – **Luminaires, light sources, control gears (Lot 8/9/19)** is already regulated for ecodesign and energy labelling and under review (Ecodesign Consultation Forum on 7/12/2017). Important to avoid the risk of double-counting: the same model (MELISA) is used.

» From the preliminary study: the max. extra savings to LOT 8/9/19 for EU-28 total annual electricity savings due to lighting system measures are approximately 10% (2030) or 20% (2050) of the total EU-28 electricity consumption for non-residential lighting in the BAU-scenario for light products in LOT 8/9/19.

» The European Commission may come with a position on LOT 37 at the ECF in December 2017 on **lighting products LOT 8/9/19**, having in mind the provisions in the EPBD, and the revision of those in **Lot 8/9/19**.
Thank you!

Paula Rey Garcia
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Energy Efficiency Unit
Directorate General for Energy
EUROPEAN COMMISSION