



# EPBD Review and Wellbeing in Buildings

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Light and Well-Being in Buildings  
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# Clean Energy Package: The Regulatory Framework for post 2020

## – Clean Energy for All Europeans Package (8 legislative proposals):

<https://ec.europa.eu/energy/en/news/commission-proposes-new-rules-consumer-centred-clean-energy-transition>

- ❖ Proposal for a revised Energy Efficiency Directive
  - ❖ Proposal for a revised Energy Performance of Buildings 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)

	COM Proposal for a new EPBD (2016)
<b>Main points</b>	<ul style="list-style-type: none"> <li>• Strengthened long term building renovation strategies</li> <li>• Support for electro-mobility</li> <li>• Stronger link between financial measures and building renovation</li> <li>• Higher thresholds for heating and air conditioning systems and promotion of electronic monitoring</li> <li>• Updated definition of Technical Building Systems (TBS)</li> <li>• Introduction of a Smart Readiness Indicator (SRI) for buildings</li> <li>• Increased transparency of calculation methodologies, raised awareness on good indoor environment, and comfort levels, better take into account renewables.</li> <li>• THE "SMART FINANCE FOR SMART BUILDINGS" INITIATIVE</li> </ul>
<b>Lighting and indoor air quality</b>	<ul style="list-style-type: none"> <li>• Definition of technical building systems includes built-in lighting</li> <li>• The energy performance of a building shall reflect its typical energy use for heating, cooling, domestic hot water, ventilation and lighting</li> <li>• 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.</li> </ul>

# State of Play EPBD revision



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\*

\* Methodology 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**.



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## Thank you!

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