



**LIGHTINGEUROPE**  
THE VOICE OF THE LIGHTING INDUSTRY

# Healthy building infographic - storyline

The infographic illustrates the key proposals of LightingEurope to the EPBD review and the reason why

## Part 1 – EPBD

- explains, why it is important to address existing buildings in the EPBD review
- lists the key proposals of LightingEurope:
  - o lighting systems' role should be improved as it brings energy savings and enables quality of light and human centric light
  - o EPBD should aim for human centric approach in the renovation of the buildings
  - o Smartness indicator will support digitalization and enable additional benefits in Buildings
- shows that total annual electricity savings potential from lighting systems will be higher than from the existing EcoDesign 245/2009 regulation. The source for this claim is the ENER LOT 37 study, page 25.  
([http://ecodesign-lightingsystems.eu/sites/ecodesign-lightingsystems.eu/files/attachments/2016Preparatory\\_study\\_on\\_lighting\\_systemsTasks0\\_4\\_7final2.pdf](http://ecodesign-lightingsystems.eu/sites/ecodesign-lightingsystems.eu/files/attachments/2016Preparatory_study_on_lighting_systemsTasks0_4_7final2.pdf))

## Part 2 – Lighting Systems

- explains the benefits of lighting systems
- compares the difference of measuring energy consumed and installed power in an (office) building
- illustrates the steps of the lighting system design process. This process is important to gain full advantage from installing lighting systems

## **Part 3 – Quality of light**

The “quality of light” criteria are already defined in the European norm EN 12464-1 (lighting of work places). The design of lighting systems should follow at least the minimum requirements as defined in this norm. The aim is to safeguard light quality while saving energy. We can do both at the same time, there is no need to choose.

## **Part 4 – Human Centric Lighting**

- only by installing dynamic and tunable lighting systems we have the chance to create Human Centric Lighting. This part is an excerpt from the Human Centric Lighting infographic.
- This part indicates that light has not only an impact on vision, but also on your body and emotion.
- The circle shows the connection between the natural light cycle and the functioning of our body.
- It shows the need for application oriented lighting and
- Indicates the range of metrics that need to be taken into consideration

## **Part 5 – Healthy Buildings**

In the evaluation of investments in better performing buildings, it is important to understand that 90% of typical business operating costs are related to staff costs. The pay-back time of investments in healthy buildings is shortened by considering the benefits for people due to lighting. The benefits mentioned are examples only.