



Significance and Benefits of MEPS for Lighting Products

Steve Coyne

Why MEPS?

- ❑ MEPS are an effective way to increase the energy efficiency of products:
 - ❑ Typically, the bottom performing 20% of the market is removed.
 - ❑ Regular reviews are required to maintain the progressive improvement in efficiency.
- ❑ By specifying minimum energy performance levels:
 - ❑ Inefficient products are prevented from entering the marketplace
 - ❑ Manufacturers are given appropriate signals to increase product efficiency
 - ❑ Consumers are provided with products in the market that use less energy and improved quality and function.

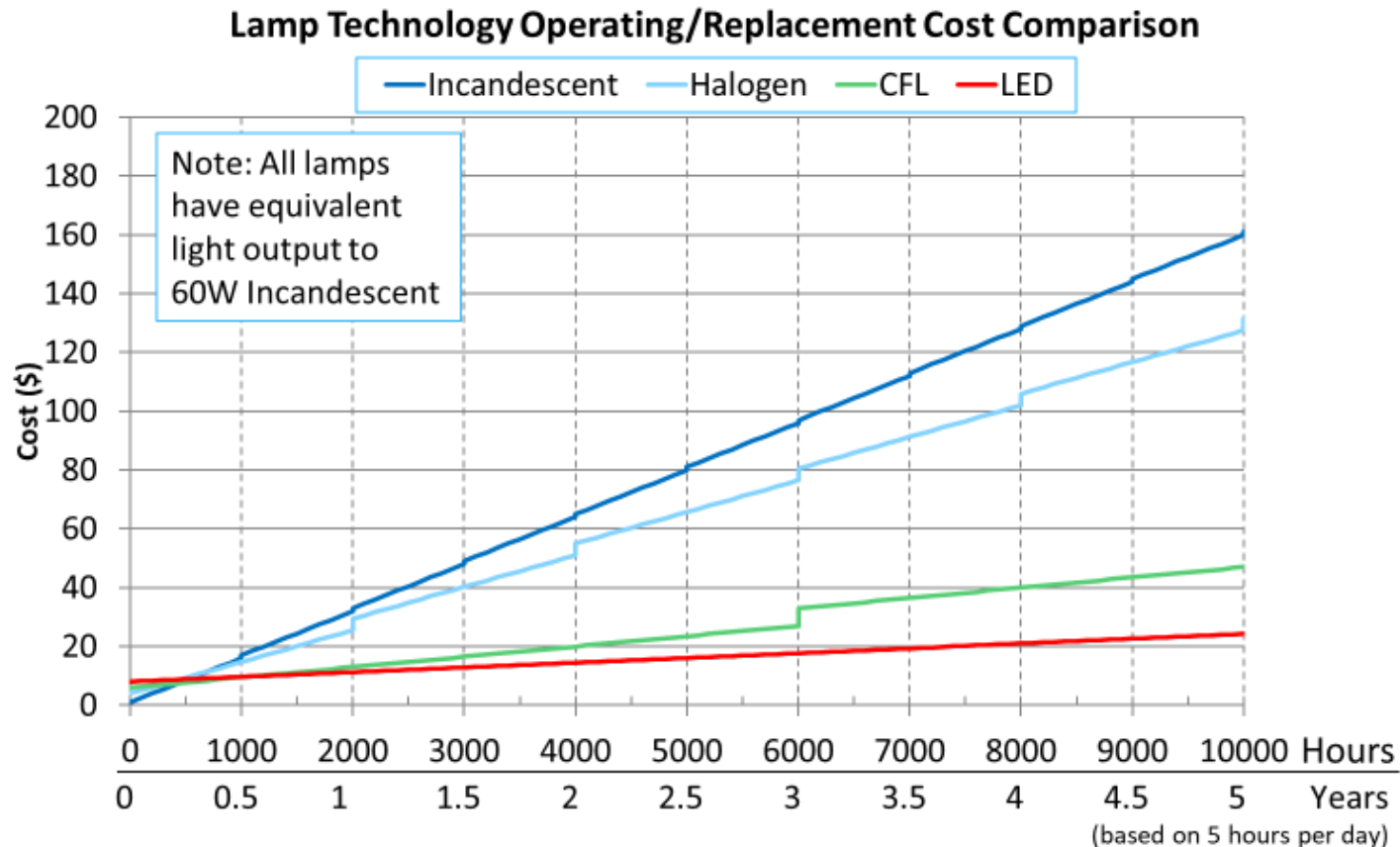
Significance and Benefits of MEPS

- Cost Savings
- Energy Savings
- Energy Security
- Emissions Reductions
- Technological Innovations
- Eliminating Market Barriers
- Job Creation

Cost Savings



- Increase in initial purchase price is recovered multiple times through electricity savings
- Over time purchase price reduces significantly with sales volumes & competition



	Cost
Electricity	\$ 0.25
Incandescent	\$ 1.00
Halogen	\$ 5.00
CFL	\$ 6.00
LED	\$ 8.00

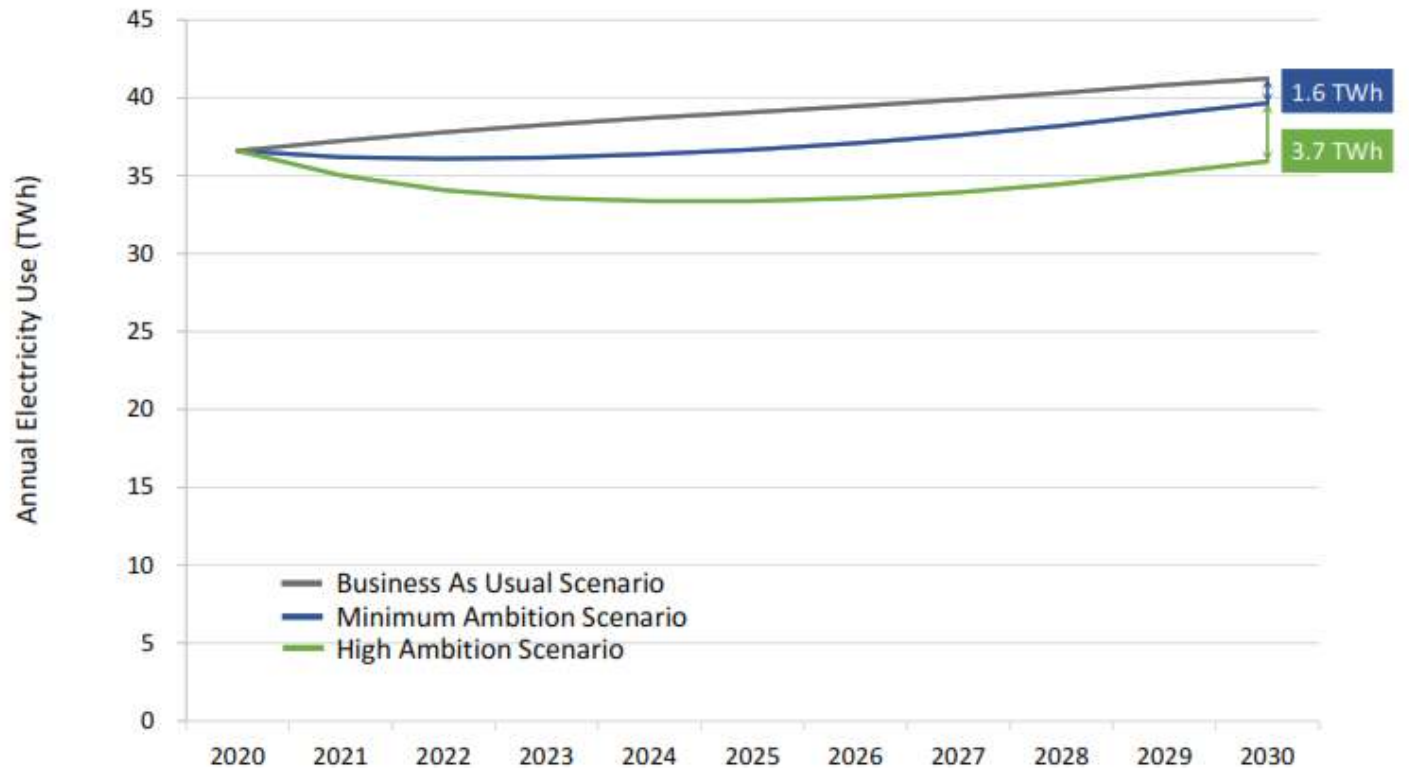
Energy Savings



- Efficient equipment uses less energy thereby reducing demand and peak loads



Lighting



Energy Security



- ❑ Reduces the need to:
 - ❑ Build more electricity generating capacity
 - ❑ Import more fuel for generation



Emissions Reductions



- Decline in electricity consumption (for manufacture and operation of lighting) requires less energy generation from fossil fuel-fired power plants



Indonesia

Lighting



Reduce electricity CO₂ emissions by over **1.1 Million tonnes**

equivalent to **620 Thousand Passenger Cars**

Technological Innovations



- Stimulates manufacturers to move away from outdated technologies towards the most efficient, innovative, and competitive product designs

Signify cuts energy consumption by 60% on LED bulbs

The new “Philips LED A-class” white LED bulbs will hit the shelves in Europe on Sept. 1 in 40W and 60W equivalent versions, each available in 3000K or a cooler 4000K version, delivering at least **210 lm/W**. Signify is labeling them as “ultra efficient.”

<https://www.ledsmagazine.com/architectural-lighting/article/14209479/signify-cuts-power-consumption-by-60-on-led-bulbs>



Eliminating Market Barriers



- Manufacturers benefit from harmonised standards by:
 - Providing market consistency and certainty across the region (ASEAN)
 - Eliminating the need to comply with different standards
 - Creating economies of scale
 - Simplifying market entry
 - Reducing the retail cost of innovative technologies for consumers

Job Creation



- ❑ MEPS create research, manufacturing, and installation jobs

European Commission has published its [Renovation Wave Strategy](#) to improve the energy performance of buildings. The Commission aims to **doubling the renovation rate to cut emissions, boost recovery and reduce energy poverty.**

[LightingEurope Calls for Renovation of Lighting Installations](#)

...key to helping Europe's lighting industry – 80% of which are SMEs – to recover from the economic impact of the current pandemic



Additional Benefits to Society



❑ Realised through additional performance requirements in the MEPS

❑ Minimum lifetime

❑ Providing confidence in obtaining the expected savings

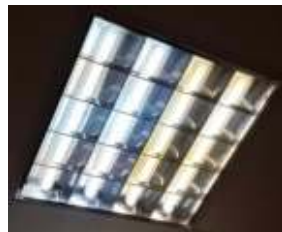


❑ Health parameters

❑ Healthier living and working spaces (flicker, blue light)



❑ Colour consistency



❑ Harmonics

❑ Making other appliances less efficient



Questions



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Contact

TRANSFORMING MARKETS TO ENERGY-EFFICIENT PRODUCTS



PHONE

+33 1 44 37 42 56



EMAIL

U4E@un.org



WEBSITE

united4efficiency.org