

Transitioning to energy efficient lighting

Climate change is the driving force behind many sustainability programs worldwide. Transitioning from conventional to energy efficient lighting is an important option for governments to reduce their CO₂ emissions in a cost-effective way. While a number of countries and regions have already created local regulations for the transition to LEDs, many emerging economies and developing countries are still right at the beginning of this journey.



General Service & Linear LED Lamps

The Global Lighting Association has published a recommended set of regulatory guidelines for general service and linear LED lamps. It is aimed at countries who do not yet have such a framework in place and want to accelerate the transition to energy efficient lighting. The guidelines are not only designed to drive energy savings, but also to enable affordability and effective market enforcement.





The GLA Regulatory Guidelines (+link)

A simple, practical, balanced approach

The regulatory guidelines define only seven essential requirements to be regulated, which cover the key elements needed for a fast, smooth transition to energy efficient lighting of assured product quality. Easy and fast to implement and enforce!

In addition, they also include advice on how to demonstrate compliance and how to set up effective market surveillance and enforcement of the requirements.

GLA Regulatory Guidelines: Gen. Service/Linear LED Lamps
Energy Efficiency Requirements 1. Luminous efficacy 2. Standby power 3. Fundamental power factor
Functional Performance Reqs. 4. Colour rendering index 5. 1000-hour early failure test 6. Short term flicker perceptibility
7. Information obligation only • Rated power • Rated initial luminous flux • Colour temperature • Dimmability statement • Exempted products mark

Simplicity prevails!
Over-stringent regulations with a high degree of complexity lead to:

- LED lamps that are too expensive for the ordinary consumer
- Parallel imports of non-compliant LED lamps, due to too high regulatory limits
- Hoarding behaviour, stimulating grey imports of inefficient incandescent lamps
- Delays in the latest LED technology reaching the market (a bottleneck)
- Overlap and conflicts with other international regulations

Based on decades of consumer lighting experience, GLA firmly believes that a simple, practical, balanced approach, with well enforced regulations, is the only feasible path to implement the transition to energy efficient LED lighting in emerging economies. Keep it simple!