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Demand for energy-efficient lighting solutions is rising

Increased adoption of LED utilities worldwide in sectors, such as the retail, hospitality, architecture, commercial, and residential, has increased the demand for energy-efficient lighting solutions, says Gautam Seth, Joint Managing Director, HPL Electric & Power Ltd.

How do you see the demand for eco-friendly lighting growing in India?

India's energy demand would grow at 4.2 per cent a year for the next 30 years, according to the latest Economic Survey report of the Government of India. So we see a massive traction in the consumption of power across the country as it is being used in manufacturing and other allied services, which have been reporting robust growth. At the same time, a lot of importance and focus is on saving energy by means of putting in energy efficient measures. LED street lighting is one such eco-friendly lighting which is immensely helping to drastic cut in usage of electricity. The LED lighting has changed India's landscape as one of the progressive nations globally. According to an industry report, the global LED lighting market accounted for USD 26.09 billion in 2016 and is expected to reach USD 54.28 Billion by 2022, and growing at a CAGR of around 13 per cent between 2017 and 2022. LED which stands for Light Emitting Diode are considered as eco-friendly lighting, as 95 per cent of the energy in LEDs is converted into light and only 5 per cent goes waste as heat. Additionally, LED bulbs don't generate as much heat as incandescent bulbs and are cooler and are safer to use. Another ecologically-friendly feature of LED bulbs is their composition. They are made of non-toxic materials and are 100 per cent recyclable. Increased adoption of LED utilities worldwide in sectors, such as the retail, hospitality, architecture,

commercial, and residential, has increased the demand for energy-efficient lighting solutions. The high luminous efficiency, greater life span, reduced energy use, and decreasing average selling price (ASP) of LED lighting products induce consumers to switch to LED technology. Together, governments and organizations globally function on the lines of reducing the energy consumption and running costs for lighting solutions. LEDs compared to their counterparts, such as incandescent lamps, are technically advanced and proficient in terms of energy



Lumino Gold 7W



consumption, luminous intensity, and efficiency. Besides providing energy-efficient lighting, LED bulbs are durable when compared to incandescent bulbs. As such LED consumers spend lesser amounts on the replacement of these products, given the high life span of LED products.

Please comment on the emerging trends in energy efficient lighting?

Globally, there has been a surge in power consumption. The high rate of power consumption can be associated with rise in population worldwide, abrupt subsidies on electricity by the governments and restricted attempts to rationalize the consumption. Moreover, growing consumption of electricity has not been supplemented with adequate electricity production, which has led to power crisis. Owing to this, there is a strapping demand for energy-efficient products such as LED bulbs. Today, LED lights have emerged as a big source for lighting homes, street-lighting industries, offices and at all other open areas for past few years. The abundant of benefit it commands over conventional lighting technology has helped it gain its foothold in the Indian lighting market. Skilled labour, ease of doing business and demographic advantages has also provided a sustainable environment for the LED industry and is poised to offer innumerable opportunities for growth over the next decades.

How can lighting enhance the aesthetic appeal of a place?

Lighting is considered to be one of the most important factors in ergonomics, but too often this part is overlooked, rushed, or sacrificed. Lighting has different effects in different settings. These include:

- **Street Lighting:** Lighting walkways and smaller urban streets are significant to construct a cozy and inviting atmosphere in the urban atmosphere. The lighting provides a sense of security and comfort

while helping to increase city's attractiveness. Lighting and the luminaries are also an integral part of the landscape architecture, helping to shape and redefine its character.

- **Industry Lightings:** Industrial settings can present a multitude of lighting challenges. Each of the diverse locations has different lighting needs. And it's no secret that dim lighting can strain the eyes and cause headaches, lowering productivity and resulting in fatigue. Dim lights also result in drowsiness or lack of focus. So, it's very important to focus on better & efficient lighting systems to ensure an enhanced and healthy environment.
- **Commercial Lighting:** Lighting is an important aspect of interior design, as it creates the mood and ambience of a living space. Lighting fixtures that illuminate a room creates a safe and comfortable environment besides adding style to the interior decor. Therefore, proper lighting is a vital element for decorating your homes.

Please share your offering in eco-friendly and energy efficient lighting.

HPL is an established electrical equipment manufacturer with highly eco-friendly and energy efficient manufacturing facilities, having a wide range of LED lighting for different sectors (Consumer, Industrial, Commercial, and Outdoor), few of them are:

- **LED lamps:** LED lamps are highly efficient and ensures energy saving up to 50% as compared to CFL. Due to their efficiency they are maintenance free and have long lifespans. This range is widely spread into:
 1. LED GLO 0.5W & Led GLO+
 2. Decor Ball
 3. LED GLO
 4. LED "R"
 5. Led filament lamps
- **LED Battens:** LED battens have long operational life time expectation of upto 80,000 hours. In spite, of zero UV emissions they can be operated in extreme cold and hot temperatures. HPL offers following range:
 - Bright Led Fitting
 - Phoenix Led Fitting
 - Aries Plus Led Fitting
- **LED Panels & Downlights:** These are extremely durable and build with sturdy components. Also, they are ecologically friendly free of toxic chemicals. LED downlights are now widely available in a range of sizes and lumen packages, offering alternative to incandescent and compact fluorescent products. HPL has following products-
 - Spark 2 in 1 Led Panel
 - Levis Led ceiling light
 - Lumino Plus Led
 - Led Bulk head
 - Onyx Plus led panel
 - Led economic panel.