



Article Side

LED Lighting Technology for Massive Reduction in Oil Consumption Worldwide with Tips for Home/Shop Owners by [Jessica Williams](#)

Article published on March 14th 2012 | [Technology](#)

There has been a gradual improvement in ways LED lights are used ever since first red light emitting diode was put forward by Nick Holonyak and S.F. Bevacqua in 1962. Lighting technology has been witnessing a revolution with the emergence of newer lighting devices based on LEDs. Newer LED lighting devices are made from cutting edge PMMA lens (the secondary optic), leading to optical efficiency of around 90 per cent.

Few decades back, LED technology was used only for indicator applications, such as lighting signal that we see in electrical iron. Today, the use of LED lights is no more limited to indicator applications. With the progress in LED technology in the 1980s, new vistas have opened. Particular breakthrough was the invention of blue LEDs. Using phosphors, new methods are developed to combine red, green and blue LEDs. Researches by lighting engineers at US-based Cree and Australia-based Valen Light Technologies are especially remarkable. Today, Valen Light holds patents of numerous devices related with ground lighting, LED light bulbs, LED outdoor and shelter lighting. Valen Light has conducted intensive researches on design, verification, equipment quality level and lighting system maintenance and is also active in developing semiconductor materials that use organic material carbon.

Lifespan, compactness, output, color adjustment, and ease of dimming: LED devices offer higher performance at all levels. LED lights consume three to four times less energy than incandescent bulbs (Patrick Mottier, Led for Lighting Applications). Addressing diffuse emission or Lambertian behavior from many LED devices is, however, an ongoing challenge.

For your home/shop, you can save big on electricity cost. At a time when electricity cost is rising, you need a strategy of partnering with a reliable agency that can significantly reduce electricity consumption of your home/shop. It makes sense to spend some time with an expert who would not only advise you on strategies for reducing consumption of electricity for your home/office, but also implement it practically for your system. Also, in the long run, it is prudent to pay more for an electronic device like LED lighting devices because of cost reduction it will bring going forward. You have reduced electricity bills for months and no need to change them frequently. You can get in touch with a home renovating agency who would help you choose the right LED products for your home/shop.

The number of vehicles in roads is increasing at a rapid rate, thanks to rapid growth in developing countries like China and India. There is a need to implement efficient lighting system in roadways that is safe and eco-friendly as well. Today, tunnel illumination, visibility metrics, and sign lighting are promising themes over which extensive researches are going on. Solar and LED-based lights can pave the way for massive reduction in oil consumption worldwide. It is estimated that light bulbs deployed in shelter and street lighting utilizes about 19 per cent of electricity generated worldwide in a year. Therefore, it is important that LED light bulbs along with other LED devices are encouraged to be developed by the state.

Article Source:

<http://www.articleside.com/technology-articles/led-lighting-technology-for-massive-reduction-in-oil-consumption-worldwide-with-tips-for-home-shop-owners.htm> - [Article Side](#)

[Jessica Williams](#) - About Author:

Valen Light Technologies manufactures advanced luminaries to optimize lighting performance and reduce energy consumption. Our use of a [Cree LEDs](#) outdoor lighting technology coupled with our unique optics delivers unparalleled light output that ensures maximum light spread and uniformity. Why not visit us now at <http://www.valenlight.com> to know more about our initiatives in building a greener planet.

Article Keywords:

Cree LEDs, ground lighting, shelter lighting

You can find more [free articles](#) on [Article Side](#). Sign up today and share your knowledge to the community! It is completely FREE!