

Republic of the Philippines
HOUSE OF REPRESENTATIVES
Constitution Hills, Quezon City

FIFTEENTH CONGRESS
Third Regular Session

HOUSE BILL NO. 6892

Introduced by Representative Edwin L. Olivarez

Whereas, in Section 16, Article II of the Constitution, the State undertakes to protect and promote the right of the People to a balanced and healthful ecology in accord with the rhythm and harmony of nature.

Whereas in Section 12, Article XIV of the Constitution, the State undertakes to promote the adpatation of technology from all sources and for national benefit.

The use of Light Emitting Diode (LED) technology in lighting fixtures and light bulb are fast gaining popularity. LEDs are small, very efficient solid bulbs. When first developed, LEDs were limited to single-bulb use in applications such as instrument panels, electronics, pen lights and, more recently, strings of indoor and outdoor Christmas lights.

In time, manufacturers have expanded the application of LEDs by "clustering" or grouping together the small bulbs. The first clustered bulbs were used for battery powered items such as flashlights and headlamps. Today, LED bulbs are made using as many as 180 bulbs per cluster, and are encased in diffuser lenses which spread the light in wider beams. Now available with standard bases which fit common household light fixtures, LEDs are the next generation in home lighting, and eventually office lighting.

Studies have shown that compared to the Fluorescent Tube bulbs or the Compact Fluorescent Lights (CFL) often used in homes and offices, LED lights emit more efficient light, as they use only 2 to 17 watts of electricity. Thus, it saves almost seventy percent 70 % in energy consumption. Moreover,

They are more durable and can withstand jarring and bumping and has a lifespan of 50,000 hours, compared to CFL lifespan of 8,000 hours.

LED lights do not contain mercury, a chemical used to run CFL bulbs, but which were identified as a toxic metal associated with contamination of water, fish, and food supplies, and can lead to adverse health effects. They lead to the least amount of Carbon Dioxide emissions. Furthermore, LED lights do not cause heat build-up, which makes the airconditioning system work more efficiently.

By requiring Government offices to refrain from further using incandescent bulbs, fluorescent tube bulbs and CFL bulbs and to switch to LED tube bulbs, the Government can save more of its resources by paying for as much lower electrical bills brought about by efficiency in Government offices' lighting and airconditioning system, and which savings the Government may channel to finance its other functions. At the same time, it also actively protects the environment by ceasing to use products that contain mercury or cause high carbon dioxide emissions. For which reasons it is hoped that this bill will get the support of my colleagues.



EDWIN L. OLIVAREZ

Republic of the Philippines
HOUSE OF REPRESENTATIVES
Quezon City

FIFTEENTH CONGRESS
First Regular Session

HOUSE BILL NO. 6892

Introduced by Honorable Edwin L. Olivarez

**AN ACT REQUIRING THE USE OF LIGHT EMITTING DIODE (LED)
LIGHTS IN ALL GOVERNMENT OFFICES, AND FOR OTHER PURPOSES.**

*Be it enacted by the Senate and House of Representatives of the Philippines in
Congress assembled:*

Section 1. Short Title. – This Act shall shall be known as the "LED Light Savings Act of 2013".

Section 2. Declaration of Policy – The State recognizes the importance of science and technology and undertakes the adoption of science and technology for national benefit. The State likewise undertakes to protect the right of the people to a healthful and balanced ecology that is in rythm and harmony of nature. The State thus recognizes the use of Light Emitting Diodes (LED) lights as an emerging trend in lighting technology, and as an alternative to the use of incandescent bulbs and fluorescent tubes and bulbs.

Section 3. Use of LED Lights in All Government Offices. – To promote economy in governance and in order to protect the right of the people to a balanced and healthful ecology by ceasing to use all products that contain mercury, a known toxic metal used to run incandescent and fluorescent bulbs, all Government offices are hereby required to cease from using incandescent bulbs and fluorescent tube lights and CFL bulbs. Instead, Government offices are hereby required to replace all their lighting fixtures with LED bulbs

Section 4. Implementing Rules and Regulations. - The Department of Energy shall issue the necessary rules and regulations to carry into effect the purpose of this Act.

Section 5. Effectivity. - This Act shall be effective fifteen (15) days following the completion of its publication in the Official Gazette or a newspaper of general circulation.

Section 6. Appropriations. – The sums necessary for the implementation of this Act shall be included in the Annual General Appropriations Act.

Approved,