
Soon, LEDs may light your homes

4 Jan 2009, 1344 hrs IST, PTI

NEW DELHI: Don't frown if you have to discard normal bulbs and tubes at your home and replace them with light-emitting diodes (LEDs).

The use of smart lighting and LEDs will revolutionise illumination in the recent future, researchers claim.

A new generation of lighting devices based on LEDs will replace the normal light bulb in coming years, saving almost USD one trillion in energy costs, said professors E Fred Schubert and Jong Kyu Kim of Rensselaer Polytechnic Institute.

"What the transistor meant to the development of electronics, the LED means to the field of photonics. This core device has the potential to revolutionise how we use light," said Schubert.

"Deployed on a large scale, LEDs have the potential to tremendously reduce pollution, save energy, save financial resources, and add new and unprecedented functionalities to photonic devices," Jong said.

The high manufacturing cost of LED is a deterrent for the common man but its huge energy saving potential and long life almost for a decade might be a boon to energy starved world.

LED lights can be six times more efficient than CFLs. If all of the world's light bulbs were replaced with energy-efficient LEDs for a period of 10 years, researchers say it would reduce global oil consumption by 962 million barrels.

LEDs are similar to regular bulbs but have no filament.

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