Future Trends in Lighting

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Lighting`s 3rd revolution



"I never perfected an invention that I did not think about in terms of the service it might give to others."

THOMAS ALVA EDISON, GE FOUNDER





imagination at work







XXI. Century



Lighting Industry in the XXI. century

From conventional light sources to solid state lighting

From product to application focus

(end-user intimacy, new applications)

From products to controllable systems

(scene setting, energy management)





Phase out of Incandescent lamps





Potential Energy Impact

- In the US, Lighting consumes 25% of total electricity per year or ~9.8 Quads/year¹
- ~ 40% for incandescent lighting¹
- ~4B household sockets with incandescent bulbs²
- In next decade, potential energy savings of
 ~ 3 Quads/year with energy efficient CFLs/LEDs
 - 1. US DOE, EERE, Solid State Lighting Research and development: Multi-Year Program Plan, March 2010
 - 2. CFL Market Overview, ENERGY STAR Partner Meeting, March 2009



LEDs Transforming Industry





LED Outdoor Lighting

- Targets 50% energy savings vs. 400W Metal Halide
- Superior light distribution
- 50,000-hour life lowers maintenance costs
- No lead, mercury







OLED Technology

- Thin, flexible sheets of plastic that light up
- Soft, diffuse light with high CRI
- Energy efficient
- Mercury-free
- Limitless design options







Possible Applications



Home





Home





Offices





Offices





flexible



Suspended ceiling lights



flexible



Suspended ceiling lights





imagination at work

