

GE LEDs - Signage and Architecture

GE Tetra[®] LED Lighting Systems are transforming the world of commercial signage and architectural lighting with a new generation of money-saving, environmentally friendly solutions. Patented Tetra[®] delivers impressive energy savings, long life, reduced maintenance and more consistent brightness, both indoors and out.



GE LEDs - Signage and Architecture

The brilliant future of signage and architecture

GE Tetra® LED Lighting System provides a significant reduction in energy consumption while simultaneously improving performance of commercial signage and architectural lighting applications. Compared to standard neon or fluorescent lamps, GE Tetra LED solutions are up to 80 percent more energy efficient, while delivering less frequent maintenance, easier jobsite installation and more consistent brightness.

The Tetra® high-efficiency, long-life LED system delivers exceptional performance in channel letter, border lighting, architectural accent, cove lighting, POP signage and wall washing applications.

If a major retailer switched outdoor signage in 450 stores from fluorescent lamps to Tetra® Power White LEDs, the energy savings would exceed \$189,000 per year. Annual CO2 emissions would be reduced by 3.2 million pounds. That is equal to the amount of carbon 402 acres of trees absorb annually, or the impact of removing 283 cars from U.S. roads.

The advanced thermal management design maximizes the life of the Tetra® LED, which can last up to 50,000 hours. If a chain of 200 stores replaced the neon in existing signs with 250 feet of red Tetra CL LEDs, it could save about \$67,000 per year in energy costs and reduce annual CO2 emissions by 1.14 million pounds, which is equivalent to the CO2 absorbed each year by 142 acres of trees.

What's next for LEDs?

According to industry sources, the LED industry grew nearly 50 percent year-over-year between 1995 and 2004, and its growth trajectory between 2004 and 2009 is expected to nearly double, from \$3.7 billion to \$7.3 billion. Many industry observers would attribute these high-growth forecasts to the low penetration of LEDs in general illumination (1 percent), signage (5 percent) and transportation (25 percent) applications.

