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# GE LEDs - Refrigerated Display

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imagination at work

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## The cooler future of lighting

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Wal-Mart Stores, Inc. recently announced that it will outfit low- and medium-temperature refrigerated cases in 500 stores across the country with GE LED Refrigerated Display Lighting. The company expects to save \$2.6 million in energy costs and reduce its CO2 emissions by 35 million pounds annually

If 200 stores, operating freezer cases 24 hours a day, replaced their current fluorescent lamps in 120 refrigerated case doors per store with GE LED Refrigerated Display Lighting, the energy savings would exceed \$975,000 per year and eliminate 11.4 million pounds of expelled CO2. That is equivalent to the CO2 absorbed each year by 1,400 acres of trees.

The GE LED solution reduces energy consumption up to 78 percent versus fluorescent lighting on a five-door refrigerated case. For every light watt reduced inside the refrigerated case, the compressor works less hard to remove heat from the display case. Also, our LED system reduces the heat load in the case by eight percent per door compared to a fluorescent system.

## 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.

