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## **Recently Released 2010 Report on U.S. Office Buildings Shows Potential \$4 Billion Annual Savings with LED Lighting Switch**

**GREATER PHILADELPHIA, PA**—GREENandSAVE, a leading sustainable living education and resource organization for individuals and businesses, issued a new report this month: *2010 G-ROI Report for U.S. Office Buildings*, that shows office building owners and managers could save more than \$4 billion annually by switching from legacy lighting to new LED lighting.

The report, based on data from the U.S. Dept. of Energy (DOE), ENERGY STAR, and private sector sources, states there are around 736,000 office buildings in the U.S., with approx. 12 billion square feet of space. The *2010 G-ROI Report* estimates switching from traditional blended incandescent and fluorescent lighting to LED lighting in those buildings can save \$4.3 billion per annum, and \$78.8 billion over the life of the building.

“LED lighting offers lower energy consumption, longer life, smaller size, and increased durability,” says Charlie Szoradi, founder and president of GREENandSAVE. “The findings in this report are based on 53 hours of operation per week, or 2,756 hours a year. LED lighting uses 50 percent fewer kilowatt

hours (kWh) than the existing blend of incandescent and fluorescent bulbs (EPA/DOE/ENERGY STAR claims 'at least 75 percent less energy'), and has a much greater life expectancy of 50,000 hours, or more than 18 years of use. We estimate LED lighting saves about \$0.36 per foot/per year in an average office at average operating hours. That equates to potential savings for American building owners and managers of over \$4 billion a year."

*The 2010 G-ROI Report for U.S. Office Buildings* is the first in a series of reports based on verifiable data that explain how businesses can invest in green energy adoption and sustainable retrofits with exceptional returns. "It's a bull market for green," says Szoradi. "We are proving to American businesses smart green investments in tested and trusted sustainable products and services—LED lighting, high performance spray foam insulation, cool roofing, water retention systems—pay them back for years to come. These are smart investments with brilliant returns."

According to Szoradi, "There is also a ripple effect of savings the building owner, or facility manager, never sees. Take for instance the single, simple change to LED lighting: The lighting change over all U.S. office buildings could reduce our equivalent CO<sub>2</sub> (CO<sub>2</sub>e) by more than 28 million tons per annum, and more than 512.5 million tons over the life of the retrofit. 28 million tons is the equivalent of taking 4.7 million vehicles—all the cars in the State of Michigan—off the road each year. It's a small shift that can become a world-altering change."

*The 2010 G-ROI Report for U.S. Office Buildings* is available to download for free at [www.g-roi.com](http://www.g-roi.com).

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**ABOUT GREENandSAVE ([www.greenandsave.com](http://www.greenandsave.com))**

GREENandSAVE is an environmental consulting organization with a concentration in energy efficiency for residential and commercial buildings. GREENandSAVE is recognized as one of America's first and leading green resources for saving money and the environment by creating a healthier home, office, career and lifestyle. The company was the first to offer comprehensive *Green Return on Investment* (G-ROI) rankings and *Take Action* recommendations on ways to "go green and save". National Association of Realtors (NAR) and the American Institute of Architects (AIA) use GREENandSAVE information for member education. The company drives initiatives that range from saving money for home and business owners to continuing education and re-training for new careers in the green economy.