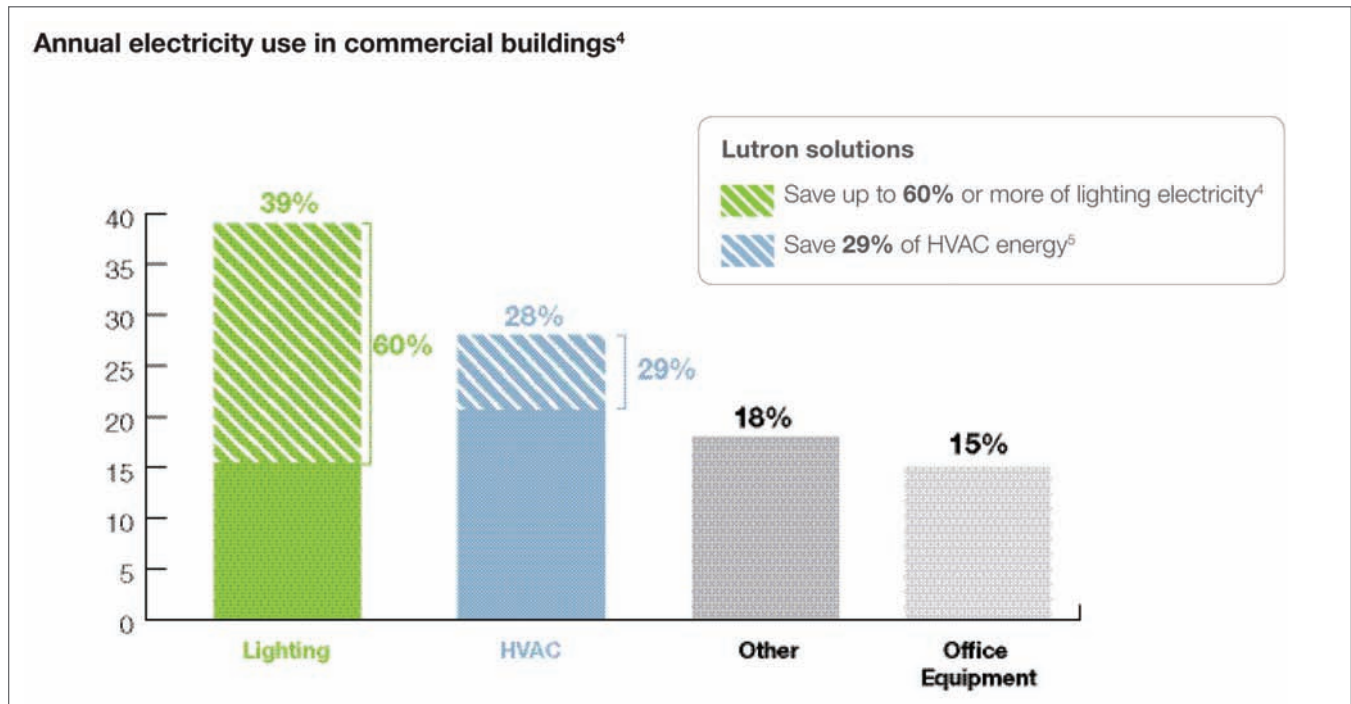


# Maximize Energy Savings Sources

Lighting and HVAC represent 67% of electricity usage in commercial office buildings. Lutron solutions can save 60%<sup>1</sup> or more in lighting electricity, and 29%<sup>2</sup> or more in HVAC electricity. Lighting uses the majority of electricity in a typical commercial office building (39% of annual electricity use<sup>3</sup>) and a considerable percentage of building peak loads (30% of peak electricity demand). Light control is a simple and effective energy-saving solution.



<sup>1</sup> Glenn Hughes, director of construction for The New York times Company building in New York City reports 75% lighting energy savings using Lutron systems. Jeff Choma, manager of mechanical and electrical systems at Georgian College in Ontario Canada reports 70% lighting energy savings using Lutron systems. Lighting energy savings exceeding 60% is frequently reported by customers using Lutron solutions as part of an overall energy-savings design program. Contact Lutron for more information.

<sup>2</sup> Savings is based on reduction in HVAC energy from a reduced lighting load, from shades, and from HVAC integration. A 60% lighting reduction contributed to a 14% savings in HVAC electricity consumption (Sources: (a) Illuminating Engineering Society of North America. 2003. Advanced Lighting Guidelines.; (b) Energy Information Administration. 2008. 2003 Commercial Buildings Energy Consumption Survey.). Shades contributed to a 5% reduction in HVAC electricity (Source: Lutron commissioned study by Herrick Laboratory, Purdue University.). HVAC integration contributed to a 10% reduction in HVAC electricity (Source: EnergyPlus energy modeling simulations.). Contact Lutron for more information.

<sup>3</sup> Energy Information Administration. 2008. 2003 Commercial building energy consumption survey (CBECS).

# Maximize Energy Savings Sources

<sup>4</sup> D&R International Ltd. 2005. 2005 Buildings Energy Data Book. Prepared for the Energy Efficiency and Renewable Energy, U.S. Department of Energy.

<sup>5</sup> Savings is based on 60% reduction in lighting energy and 14% reduction in HVAC energy use. Lighting and HVAC account for 25% and 51% of building energy use respectively (Source: Energy Information Administration. 2008. 2003 Commercial building energy consumption survey.). Contact Lutron for more information.

