

# Lighting Retrofit Benefits

Lighting retrofits offer the following benefits to users:

- **Energy savings**

Lighting retrofits can greatly reduce energy consumption and lower energy bills, while maintaining lighting levels and quality by upgrading lighting components to more efficient and advanced technologies. Upgrading technologies can also offer users greater control over lighting, allowing for additional energy savings.

- **Improved lighting quality**

Lighting retrofits can improve lighting quality by targeting problem areas with specific design considerations to overcome common lighting issues. Newer technologies also add increased reliability to the lighting system, so fewer short-term lighting-quality issues should arise. These newer technologies often have better lighting-quality characteristics, such as improved color, reduced flicker, greater light output, etc.

- **Reduced maintenance and labor costs**

Improvements in lighting technologies have led to increased lifetimes for components that will result in fewer failures and lengthen the time between maintenance activities. The

implementation of a routine maintenance program in addition to your lighting retrofit will greatly simplify your maintenance practices and reduce the operational costs associated with maintaining your lighting systems.

- **Pollution reduction**

By consuming less electricity, your facility will help reduce the demand and associated emissions from “off-site” power generation. These harmful emissions include CO<sub>2</sub> and other greenhouse gases.

- **Green Power systems**

For those facilities served by photovoltaic or other green-power systems, efficient lighting will help limit power demands. Using more efficient lighting will require less power to be generated, stored, and used to accomplish the same tasks, making alternative power systems more economically and technically feasible