



**A TYPICAL HOSPITAL WOULD  
NEED AN ADDITIONAL 15 PATIENT  
VISITS ANNUALLY TO EQUAL THE  
MONEY SAVED BY  
SWITCHING TO LED LIGHTING\***

Not only can hospitals save energy by using more energy efficient equipment, but there are additional positive effects on the overall revenue and environment of the hospital. By simply upgrading to LED lights and heating, ventilation, and air conditioning units in rooms, the following benefits can occur:

- Worker and guest comfort, safety and satisfaction
- Decreased maintenance costs
- Increased worker productivity by improving working conditions
- Decreased equipment failure

\* Based on DNV GL study

**“WE’VE [RECEIVED] A  
TREMENDOUS AMOUNT OF  
COMPLIMENTS AND  
ASSURANCE FROM STAFF AND  
FAMILY MEMBERS THAT THEY  
FEEL A LOT SAFER ON  
PROPERTY AT NIGHT”**

**- Kevin Miller, Corporate Director of  
Facilities and Energy,  
McLaren Health Care**

Consumers Energy offers rebates, technical services and more to help hospitals like yours become more energy efficient. Our team is here to walk you through the program requirements and available resources.

**CONTACT US**

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# **Hospital Facilities’ Hidden Benefits from Energy Efficiency**

**Consumers Energy**  
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# The Impacts of Energy Efficiency in Hospitals

The following non-energy improvements can result from upgrading to energy efficient equipment:

## Code Compliance

A failure or malfunction of any component of the HVAC system may subject patients and staff to discomfort and exposure to airborne contaminants. Cool temperature standards usually are associated with operating rooms, clean workrooms, and endoscopy suites. Relative humidity levels greater than 60 percent promote fungal growth.

## Increased Comfort

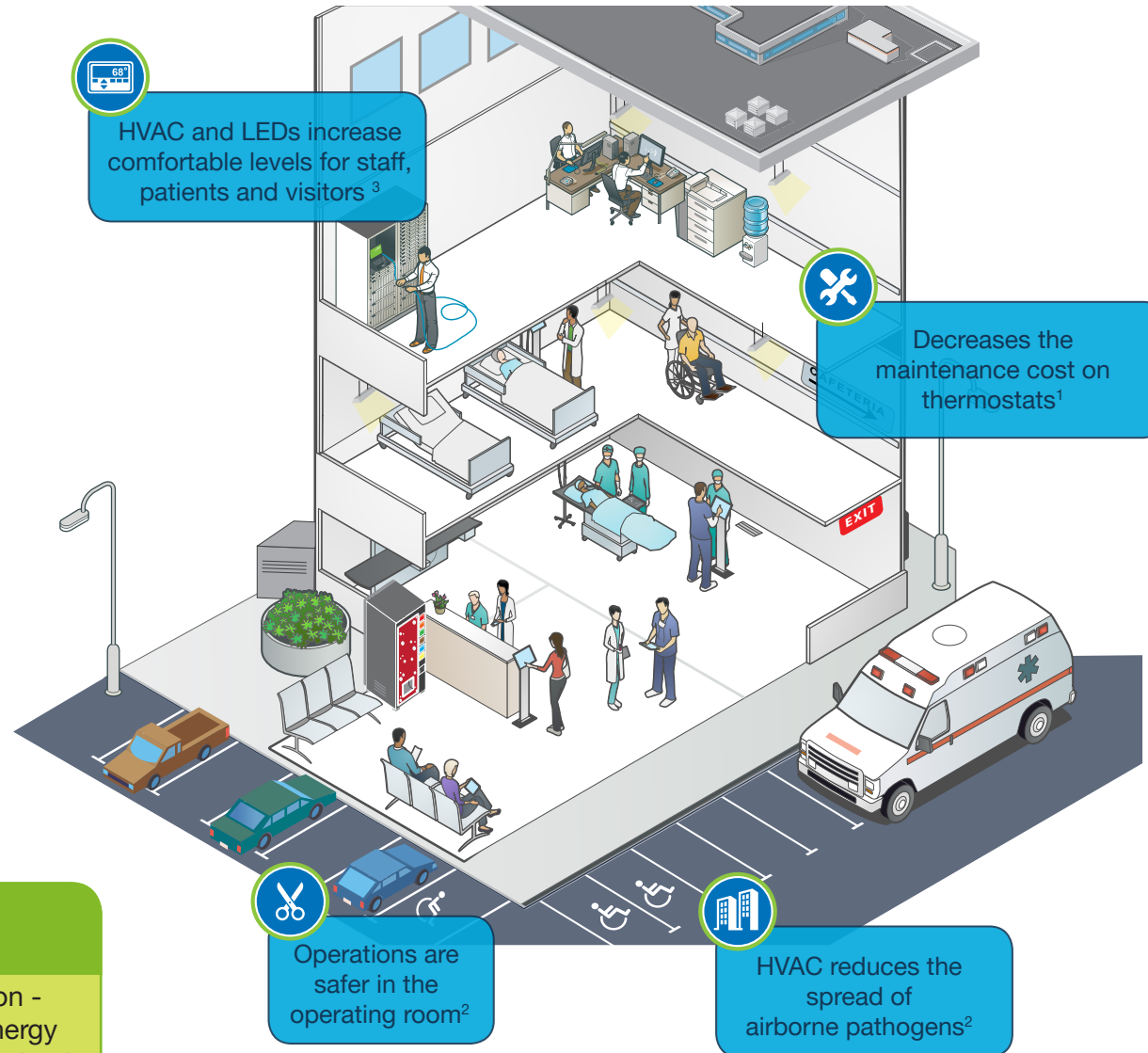
Comfort is important, especially in a health care facility. For instance, HVAC systems are designed to maintain the indoor air temperature and humidity at comfortable levels for staff, patients, and visitors. Bright LEDs can also substantially influence mood and the ability to focus. LEDs improve patients comfort by improving their health and reduce agitation and lessen staff stress during night shift hours.

## Increased Safety

Safety is the main priority in health care facilities. For instance, exterior LEDs can enhance security by providing useful and even light distribution. HVAC delivers safer conditions in operating rooms since surgeons can control the temperature and humidity creating.

## O&M Cost Savings

By installing electronic sensors that replace traditional thermostats, you no longer need to annually replace or verify proper function.



## O&M Cost Savings

| Equipment                | Energy Savings | Non - Energy Savings | Total Savings | Energy Payback | Non - Energy Payback |
|--------------------------|----------------|----------------------|---------------|----------------|----------------------|
| Lighting                 | \$1,615        | \$1,553              | \$3,169       | 2.78 yrs.      | 1.42 yrs.            |
| Compressed Air           | \$3,843        | \$349                | \$4,192       | 2.13 yrs.      | 1.95 yrs.            |
| HVAC & Heating Equipment | \$11,141       | \$0                  | \$11,141      | 5.65 yrs.      | 5.65 yrs.            |

1. 2014 Powerpoint presentation, Non-Energy Impact Marketing Analysis by Industry, Special Cross Sector Research Area [PPT]. (2014). DNV GL.  
 2. Guidelines for Environmental Infection Control in Health-Care Facilities: Recommendations of CDC and the Healthcare Infection Control Practices Advisory Committee (HICPAC) February 15, 2017  
 3. (Anjali Joseph, Ph.D., Director of Research. "The Impact of Light on Outcomes in Healthcare Settings." The Center for Health Design. Robert Wood Johnson Foundation. 2006)