

A TYPICAL OFFICE WOULD SAVE THE EQUIVALENT COST OF 3,250 REAMS OF PAPER ANNUALLY BY UPGRADING TO LED LIGHTING*

Research shows by upgrading to energy efficient lights, heating, ventilation and air conditioning systems, the following benefits occur:

- Enhanced worker and visitor comfort, safety and satisfaction
- Increased worker productivity
- Lowered maintenance costs
- Decreased equipment failure

* Based on a 2017 DNV GL study

“... [WITH] THE LIGHTING UPGRADE WE DON’T WORRY ABOUT LIGHTS BEING ACCIDENTALLY LEFT ON, SO NOBODY HAS TO DO A LIGHT CHECK AT THE END OF THE DAY.”

**- Cheryl Postma, Director,
AuSable Valley Animal Shelter**

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

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Offices

Hidden Benefits of Energy Efficiency



Energy Efficiency Impacts in the Office

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



Worker Productivity

Research proves light influences alertness, mental focus and cognitive performance. Replacing bulbs with LEDs can increase employee attention, mood and performance by 25 percent because they simulate natural light.



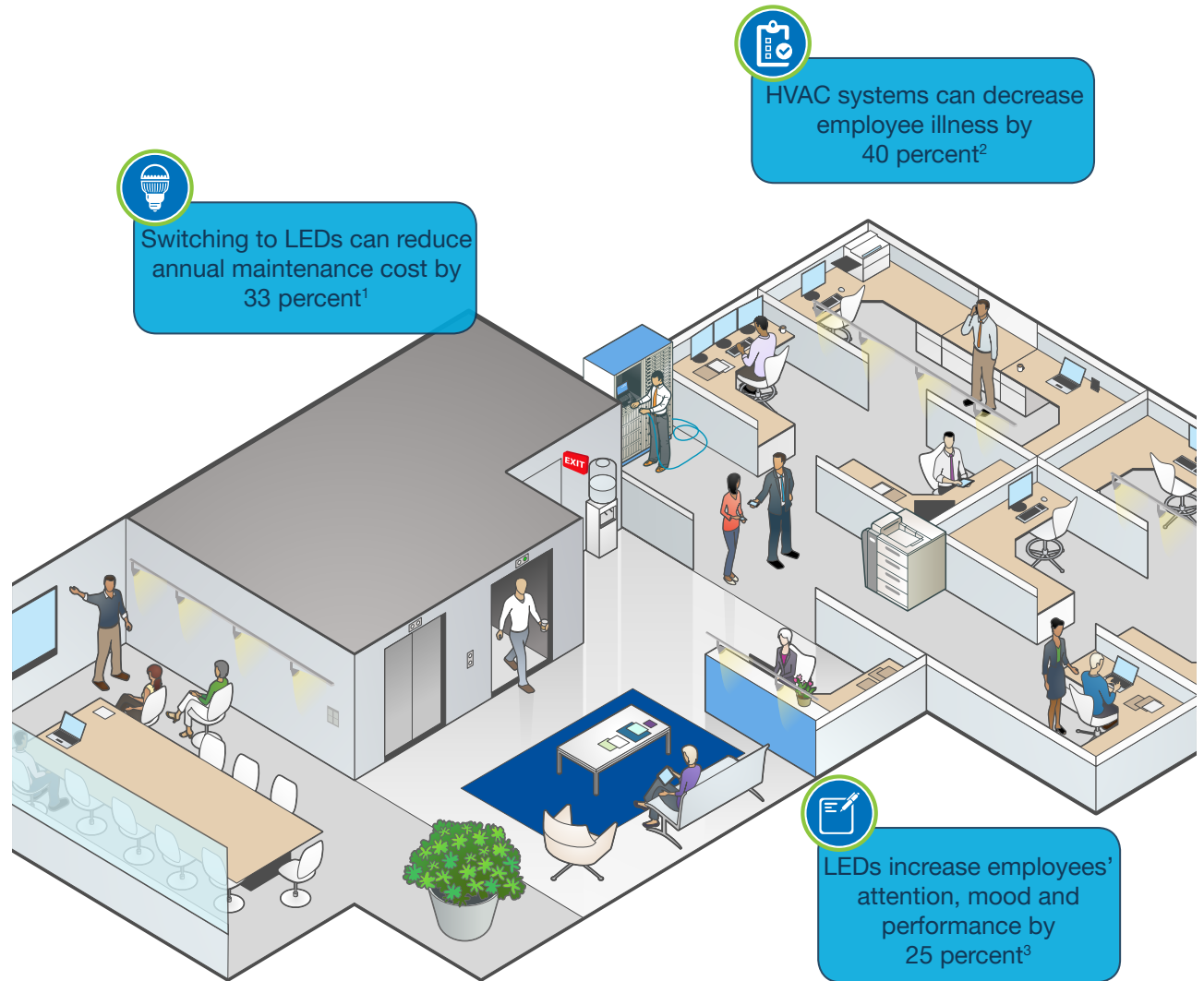
Increased Health

An outdated HVAC system can spread airborne pathogens. Switching to an energy efficient HVAC system improves the indoor air quality and reduces the number of office illnesses by 40 percent. Want an added bonus? Research shows a 74 percent increase in employee morale and satisfaction from improvements to temperature controls.



O&M Cost Savings

Maintenance visits can be a distraction for employees. LEDs have a longer life, require less upkeep and save 33 percent annually on maintenance cost while using less energy than fluorescent bulbs.



HVAC systems can decrease employee illness by 40 percent²



Switching to LEDs can reduce annual maintenance cost by 33 percent¹



LEDs increase employees' attention, mood and performance by 25 percent³

O & M Cost Savings

| Equipment | Energy Savings | Non-Energy Savings | Total Savings | Energy Payback | Non-Energy Payback |
|--------------------------|----------------|--------------------|---------------|----------------|--------------------|
| Lighting | \$1,631 | \$11,459 | \$13,090 | 2.08 yrs. | 0.26 yrs. |
| VFD | \$53 | \$0 | \$53 | 2.11 yrs. | 2.18 yrs. |
| HVAC & Heating Equipment | \$3,892 | \$0 | \$3,892 | 2.24 yrs. | 2.29 yrs. |

1. 2014 PowerPoint presentation, Non-Energy Impact Marketing Analysis by Industry, Special Cross Sector Research Area [PPT]. (2014). DNV GL.
 2. Carnegie Mellon, 2005.
 3. Natural Light and Productivity: Analyzing the Impacts of Daylighting on Students' and Workers' Health and Alertness Int'l Journal of Advances in Chemical Engg., & Biological Sciences (IJACEBS) Vol. 3, Issue 1 (2016) ISSN 2349-1507 EISSN 2349-1515 N. Shishegar, M. Boubekri