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Chapleau Health Services

General Hospital & Long-Term Care Facility



GOALS: More efficient lighting, improved illumination, reduced energy costs
SAVINGS: Over \$60,000 per year in energy and maintenance savings
RESULTS: Lighting that meets both staff and patient needs

Site description

Services de santé de Chapleau Health Services (SSCHS) is an integrated healthcare provider with multiple facilities to attend to the various medical needs of a Northern Ontario community. The property consists of the General Hospital, medical centre, and Cedar Grove long-term care facility. Due to rising power costs, SSCHS was looking at reducing their energy consumption in the General Hospital and long-term care facility. The hospital still contained old incandescent lighting throughout the building.

Primary challenge

The main driver behind the upgrade was reducing power costs, however SSCHS presented two other important requirements. First, the new lighting had to meet visual acuity requirements to allow medical staff to properly perform their duties, while maintaining comfort and safety levels for patients and visitors.

Second, ONEnergy had to guarantee the installation would not disrupt the hospital's regular operations or its patients and staff.

Process

ONEnergy completed a full audit of the facilities and identified areas for potential energy reduction. All materials required for the applicable rebate program were submitted on behalf of the client. Renovations were taking place at the same time as the lighting upgrade, so ONEnergy coordinated with the contractor to complete the lighting within their existing timeline. To work quietly and efficiently around the hospital operations, much of the installation was scheduled for after-hours or when rooms were not booked for use. Sometimes this required sections of rooms to be completed, and for the electrical team to return at a later time. A vigilant clean-up was completed after installation in each area to maintain the hospital's cleanliness.

Outcomes

Lighting

The new LED lighting provides noticeably improved, brighter light levels and a colour temperature closer to natural sunlight, which is proven to have a positive influence on mood and workplace satisfaction. In addition, SSCHS no longer has to deal with the cost and inconvenience of frequently replacing failed incandescent or fluorescent lamps.

Energy

The new LED lighting has successfully saved 369,000 kWh annually, equivalent to 60% of SSCHS's lighting energy consumption and with a very compelling payback of just over two years. The upgrade has also reduced annual CO2 emissions by 273 metric tonnes; the equivalent of the CO2 emitted by 25 homes. Most importantly, SSCHS is saving more than \$60,000 annually in energy and maintenance costs - money that can now be redirected to improving healthcare in a time of rising costs and lower public funding.

Testimonial

“When we retrofitted our hospital and seniors’ residence with LED lighting, I was amazed at how quickly the ONEnergy team worked and how little disturbance there was in our busy operation. Everybody loves how crisp and clear the lighting is now, and we are very excited about the energy cost savings that we are seeing as well.”

Padriac Taaffe, Support Services Manager, Services de santé de Chapleau Health Services

Contact

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