



# HURON PERTH HEALTHCARE ALLIANCE SEAFORTH COMMUNITY HOSPITAL

## CONSTRUCTION YEAR

2021

## HIGHLIGHTS

Annual Electricity Reduction =  
44,182.55 kWh/yr

Annual Natural Gas Reduction =  
5,582.20 m<sup>3</sup>/yr

Annual Energy Reduction =  
103,112 ekWh/yr

Annual GHG Reduction =  
12.367900 tons/yr

## EQUIVALENCY RESULTS

CO<sub>2</sub> Emissions From

3.7845773  
Passenger Vehicles

2.8945773  
Homes' Energy Use for One Year

8.274125  
Homes' Electricity for One Year

## PNEUMATIC CONTROLS UPGRADE

Seaforth Community Hospital (SCH) undertook a project, replacing pneumatic heating and ventilation controls. This initiative encompassed the replacement of existing perimeter and reheat pneumatic control valves and completes the hospitals initiative to eliminate pneumatic controls entirely and remove the air compressor. Additionally, building automation system (BAS) control was provided for control and monitoring of the operating room exhaust fans and dampers and for vestibule force-flow heaters. The endeavor aimed to enhance hospital infrastructure, providing efficient control and monitoring of temperature and ventilation.

## ENERGY & CARBON SAVINGS

The project introduced innovations focusing on energy conservation and carbon reduction. Removal of the pneumatic control system eliminates energy consumption required by the air compressor. Circuit balancing valves were added and modern control sequences in accordance with ASHRAE Guideline 36 "Best in Class HVAC Control Sequences" were utilized for the digital control of the reheat and perimeter radiation control valves bolstering operational precision and optimizing resource usage. These features collectively support sustainable practices within the emergency department, fostering energy savings and a notable reduction in carbon footprint, aligning with a commitment to environmentally conscious healthcare infrastructure.