

MAKE ENERGY SOLUTIONS EASY

KINGS-EDGEHILL SCHOOL

EFFICIENT SOLUTION - ENERGY SAVINGS

THE HISTORY

Founded in 1788, King's-Edgehill School (KES) was the first independent school in both Canada and the British Commonwealth. Today, the school continues to honour the traditions of excellence, achievement, and leadership.

KES' administration building, Marshall House, is an historic two and-a-half story wooden building with sash windows and a gabled roof. For more than 100 years, Marshall House has maintained its architectural integrity.

THE CUSTOMER

The school's administration building, Marshall House, is a historic two-and-a-half story wooden building with sash windows and gabled roof. It is over 100 years old and still maintains its architectural integrity.

As with similar buildings across Nova Scotia, the age of Marshall House meant it had an inefficient heating system with no means for cooling or to decrease humidity. The second floor is home to KES's archives, where boxes of historic items, documents, and photos are stored.

Instead of implementing a standalone cooling solution, the school consulted the Business Solutions team at NS Power who worked with sales representatives to provide both a heating and a cooling solution. This would enable KES to offset fossil fuel-fired heat in the colder months, in addition to providing cooling and dehumidification in warmer months.

THE SOLUTION

The new solution was installed in May 2015 by Ready Refrigeration and included:

- 5 outdoor condensing units and 16 indoor units, serving 16 zones
- 3 Daikin 24,000 BTU class configurable tri-zone heat and cool split system
- 2 Daikin 36,000 BTU class configurable quad-zone heat and cool split system



THE BENEFITS AND FEATURES

Marshall House is seeing operational savings on heating costs, in addition to enjoying a new cooling solution. The staff immediately noticed significant changes, including:

- Increased comfort
- Lack of noise from equipment and systems, and
- The gain in equipment efficiency, which has been proven through energy savings.

Kings-Edgehill was so satisfied with the solution implemented at Marshall House, the School followed up with heat pump installations at the Athletic centre's weight room and reception area.

In the coming years, KES, in partnership with Nova Scotia Power and our heat pump contractor, will continue to identify further opportunities across the rest of campus; a total of 14 buildings.

For a copy of the complete case study or to learn more, contact one of our business solutions experts at: businesssolutions@nspower.ca