

# STRATFORD GENERAL HOSPITAL

Stratford, Ontario, CANADA



## **BENEFITS**

- ▶ Achieved 20% reduction in the consumption of natural gas
- ▶ Cut greenhouse gas emissions by 20%
- ▶ Removal of 776 metric tons of carbon dioxide (CO<sub>2</sub>) per year
- ▶ Over 98% removal of sulphur dioxide (SO<sub>2</sub>)
- ▶ Over 50% removal of particulate matter under 2.5 microns (PM 2.5)

## **FLU-ACE® Boiler Plant Waste Heat Recovery**

A FLU-ACE® waste heat recovery system was implemented at the Stratford General Hospital to reduce natural gas use and greenhouse gas emissions by 20%. The system was supplied to Johnson Controls, Inc. (NYSE: JCI) as part of a major energy reduction project at all four hospitals in the Huron Perth Healthcare Alliance. The FLU-ACE® system accounted for more than one-third of the energy savings and more than half of the emission reductions to be derived from the \$3.8 million dollar energy reduction project.

The FLU-ACE® system recovers waste heat energy from the flue gas exhaust of three steam boilers. In addition to removing harmful pollutants, the recovered "free" energy is utilized for space heating and boiler combustion air preheating. The FLU-ACE® provided an attractive return on investment by significantly reducing fuel consumption and generating certifiable emissions credits.

Huron Perth Healthcare Alliance CEO Andrew Williams said he looks forward to deriving the benefits of the FLU-ACE® system and other energy reduction measures at his facility. "The project's impact on patients and hospital savings will be significant," said Mr. Williams. "We can also all breathe a little easier thanks to the reduction in greenhouse emissions."

Since the implementation of the FLU-ACE® system, the Stratford General Hospital site has reduced the consumption of natural gas by 20% generating an estimated annual saving in excess of \$150,000. Greenhouse gas emissions have also been reduced by at least 20% including 776 tons of carbon dioxide (CO<sub>2</sub>), the equivalent of permanently removing more than 170 cars from local roads.



An Innovative Technology Company Providing  
Custom Energy and Emission Reduction Solutions

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