

# ST VINCENT HOSPITAL

Ottawa, Ontario, Canada



## **BENEFITS**

- ▶ 30% reduction in boiler natural gas consumption
- ▶ Recovery and reuse of up to 90% of flue gas exhaust heat
- ▶ Economical in-house electrical power generation
- ▶ Significant reductions in greenhouse gases and other emissions

## **FLU-ACE® Boiler & Cogen Heat Recovery**

Thermal Energy designed and implemented an integrated FLU-ACE® heat recovery system with cogeneration unit for efficient electrical power generation and overall reduction in energy consumption.

The installation is comprised of a natural gas fueled engine with a 425 kW generator, waste heat boiler, and FLU-ACE® waste heat recovery system processing combined flue gas streams from existing steam boilers and the cogeneration unit. The system was designed to recover 1,758 kW of waste heat to be utilized for fresh air heating, dehumidification and boiler make up preheating of the "B-Wing" part of the facility. The system provides 95% of the hospital's heating requirement during the summer months replacing the existing summer boiler operation.

*"The FLU-ACE® heat recovery and pollution control system has been very reliable with a minimum of maintenance,"* said Paul Fortier, Chief Operating Engineer at St. Vincent Hospital. *"In the last five years, the electrical rates stabilized while the gas rates have been increasing every year making the installation of such a system even more interesting. If reducing energy consumption while also contributing to the limitation of harmful environmental emissions is part of your mandate, then the installation of a FLU-ACE® system should be considered."*



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Custom Energy and Emission Reduction Solutions

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