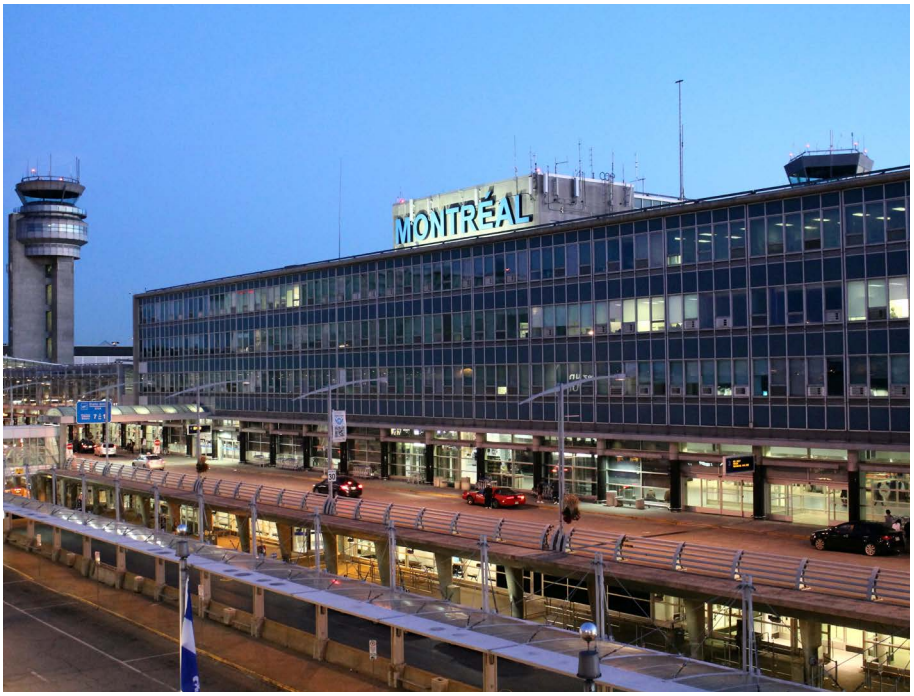
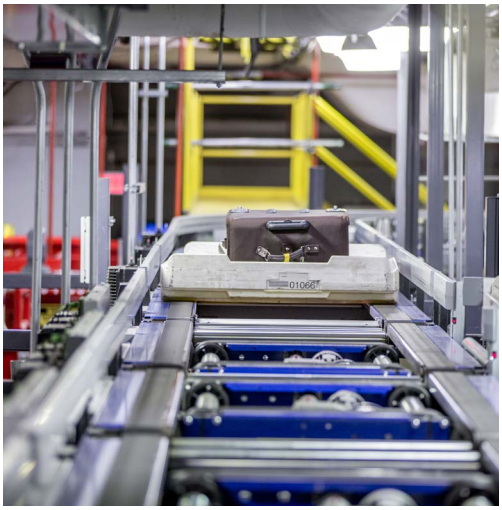
Montreal's Pierre Elliott Trudeau International Airport (YUL)

Conveyor System Optimization for the Baggage Handling System (BHS)





Client: Montreal's Pierre Elliott Trudeau International Airport (YUL)
Location: Montreal, Quebec
Contract date: Since 2013

Close to downtown Montreal and run by Aéroports de Montréal (ADM), Pierre Elliott Trudeau International Airport (YUL) is the third-busiest airport in Canada. With close to 14 million passengers annually, the airport is a major hub for industrial, business, administrative and government activities. ISO 14001 and BOMA BEST certified, YUL is the first airport to obtain the Airport Carbon Accreditation certification. To be recognized as a leader in sustainable development, ADM has invested close to 40 million dollars in environmental projects and initiatives since 2013.

Context

Since 2005, ENGIE has positioned itself as a service-provider of choice by delivering efficient and comprehensive operation and maintenance services for YUL's Baggage Handling System (BHS). As airports evolve, we recognize that embracing innovative and forward thinking projects are essential to face the challenges and requirements of tomorrow's travelers and to remain on the cutting edge of technology. ENGIE's engineering team actively supports on site operation and maintenance personnel to develop new initiatives and support the Airport's sustainable and environmental action plan.

The project

In 2012, ENGIE launched a conveyor system optimization project to reduce energy usage and increase life expectancy of the BHS. The assignment looked to reduce the operation of the conveyors outside peak periods, which represented 80% of the time. By re-programming the entire conveyor system and implementing a centralized IT server, YUL airport benefited from 30% annual energy savings and required no capital investment to finance the project.

How we did it

By re-programming the entire conveyor system and implementing a centralized IT server, the system was able to automatically stop when no baggage was visible and limit the quantity of conveyors required to operate outside peak periods, without limiting redundancy capabilities. The resulting project allowed the conveyor system to stop for a short period of time when no baggage was detected. This conveyor system optimization initiative allowed the airport to benefit from 30% annual energy savings and to reduce wear and tear on the belts, motors and other BHS components. Additionally, the resulting project did not impact the system's capabilities during peak periods.

As a leader in Facility Management and Energy Efficiency services, ENGIE is active in many North-American Airports by providing innovative solutions to ensure business continuity, improve energy efficiency and support on-going sustainability initiatives.