



## CASE STUDY: CANADIAN FORCES BASE KINGSTON

**TO HELP CFB KINGSTON ACHIEVE THEIR GOALS FOR ENERGY USE, COST CONTROL AND EFFICIENCY, DIRECT ENERGY BUSINESS SERVICES WILL BE WORKING WITH THEIR TEAM TO IMPLEMENT A COMPREHENSIVE ENERGY MANAGEMENT PROGRAM.**

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# Canadian Forces Base Kingston

Canadian Forces Base (CFB) Kingston is a military base under the command of the Land Forces Central Area. The primary resident units are the Canadian Forces School of Communication and Electronics and The Royal Military College of Canada. With over 5000 employees, CFB Kingston is the largest employer in Kingston, Ontario.

## BACKGROUND

In late 2003, Defence Construction Limited (DCL), acting on behalf of the Department of National Defence (DND), issued a Request for Proposal for the delivery of an energy management program at CFB Kingston. Direct Energy Business Services competed, and was awarded the opportunity to demonstrate how they could conceptualize, engineer, finance and implement measures that would pay for themselves over a 10-year period. Through this project CFB Kingston, DND and DCL will demonstrate how the wise use of energy and new equipment can result in improved infrastructure and a holistic approach to upgrading facilities and investing in the future.

## SOLUTION

To help CFB Kingston achieve their goals for energy use, cost control and efficiency, Direct Energy Business Services will be working with their team to implement a comprehensive energy management program. Through this effort, more metering will be added to the site, intelligent lighting controls will be installed and central plant efficiency will increase. Additionally, the control system will be expanded; a new chiller may be installed at The Royal Military College and long stretches of underground piping, for water and steam distribution, will be examined and upgraded as necessary to ensure they are operating with maximum efficiency.

There will be a strong renewable energy component as well. Studies will be conducted to determine the viability of Wind Technology for specific site locations and there will be an installation of a heating system powered by the sun. The work at The Royal Military College of Canada will address systems that have traditionally been less energy efficient and required a higher degree of maintenance from base personnel.



Construction has begun on this project, with full installation scheduled for March 2007. Direct Energy Business Services is acting as engineer and general contractor, and is also providing a 100% guarantee that all works performed will be paid for by the energy savings produced. This is the largest Canadian Federal Building Initiative project to date.

## ANTICIPATED RESULTS

The project is anticipated to assist CFB Kingston in achieving approximately \$2.3M in annual energy savings. The energy management program will encompass approximately 170 buildings and potentially over \$9 million in annual electrical, gas and water/ sewer usage.

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