ENERGY SERVICES ASSOCIATION OF CANADA

PROMOTING PERFORMANCE BASED SOLUTIONS

case study

Atomic Energy of Canada

Atomic Energy of Canada increases energy efficiency, improves safety, and reduces greenhouse gas emissions through solutions provided by Siemens.

*Performance-based solutions become the **premier choice** for energy and infrastructure renewal initiatives, resulting in fiscally and environmentally responsible outcomes.*

Project Description

Atomic Energy of Canada Limited's (AECL) Chalk River Laboratories site lies 200 kilometres north of Ottawa along the Ottawa River. More than 2000 people work on a variety of nuclear research and development projects at the site. Siemens Building Technologies and AECL have been working together to improve the energy efficiency at Chalk River since the mid-1990s, and in 2005 wanted to implement additional improvements.

Opportunity

With assistance from the Natural Resources Canada Federal Buildings Initiative, Siemens performed a Detailed Feasibility Study and identified several energy savings measures. Some of the upgrades implemented included the conversion of some buildings to propane heating; the replacement of chillers with environmentally friendly energy efficient units; and the addition of building automation technology.

Results

The reduction of greenhouse gases, operational savings, and improved employee comfort and safety were all results of the upgrades performed at the Chalk River site. The continuity of the production and research facilities were crucial considerations while performing these upgrades.

For more information visit:

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