



Project Highlight

Natural Resources Canada's Great Lakes Forestry Centre, ON

AMERESCO 

Energy Reduction and Facility
Renewal Program Reduces
Utility Costs by 34%

Technology Type:

Energy Efficiency | Energy Savings
Performance Contract

Project Size

22,505 square meters

Utility Cost Reduction

34%

Annual GHG Reduction

558 tonnes CO₂

Annual Energy Savings

\$399,000+



Summary

The Great Lakes Forestry Centre (GLFC) is a 22,505 square meter mixed occupancy facility that includes laboratories, offices, greenhouses, and a large area that hosts a range of environmental chambers. Ameresco designed and implemented a project to reduce energy costs and improve facility conditions for building occupants. The project was initiated with a feasibility study that was approved for implementation in 2014.



Solution

After completing a feasibility study, Ameresco commenced the design and implementation of a comprehensive project that involved infrastructure upgrades and numerous energy conservation measures. The project required careful planning with multiple stakeholders so as not to disrupt day-to-day operations. The performance contract included:

- Mechanical system upgrades
- HVAC & building automation system enhancements
- Fume hood variable air volume retrofit
- New chillers & variable flow pumping
- Washroom upgrades
- Greenhouse optimization
- MCC equipment upgrades
- Exterior LED lighting retrofit
- Heat recovery with heat pumps
- Environmental chamber audit & consolidation
- Interior lighting retrofit



Benefits

The long-term partnership between Natural Resource Canada's GLFC and Ameresco has delivered customer value through energy efficiency and innovative facility renewal. Natural Resource Canada's largest research centre, GLFC benefits from more than \$399,000 in annual combined electricity, natural gas, and water energy savings. Program benefits include:

- Annual energy cost savings
- Reduced operating and maintenance costs
- Equipment and system renewal
- Improved comfort for the occupants
- Operator training program
- Annual CO₂ emissions reductions of 558 tonnes

AMERESCO 

Founded in 2000, Ameresco, Inc. (NYSE:AMRC) is a leading cleantech integrator and renewable energy asset developer, owner and operator. Our comprehensive portfolio includes energy efficiency, infrastructure upgrades, asset sustainability and renewable energy solutions delivered to clients throughout North America and the United Kingdom.

Ameresco's team of energy experts can assist you in identifying the solution that fits your needs. For more information about Ameresco and our full-range of energy efficiency and renewable energy solutions, please call **1-866-AMERESCO** or visit **ameresco.com**.