



Project Highlight

Cannon Mountain, NH



Cannon Mountain Reduces
Energy Consumption by 30%
After Efficiency Project

Technology Type:

Energy Efficiency

Project Size

\$5,100,000

Reduced Energy Consumption

30%

Annual Greenhouse Gas Reduction

2.3M+ pounds

Expected Annual Energy Cost Savings

\$386,000



Summary

The State of New Hampshire contracted with Ameresco for an energy efficiency initiative at Cannon Mountain. The project was funded through the state's energy performance contract, and is budget-neutral, with savings from the reduction in energy to be used to pay-off the cost within 16 years.



Solution

In partnership with Ameresco, energy efficiency and conservation measures were installed for Cannon Mountain's snowmaking and energy-supply systems.

- Replaced 388 high energy use snow guns
- Added 1,200 feet of water/air lines to expand snow production
- Installed a new pump house to increase summit snowmaking efficiency
- Replaced main-trunk power line
- Replaced high- and low-voltage transformers
- Upgraded lighting and weatherization



No matter how you look at it, this project is a win-win. It helps us achieve our overall efficiency and sustainability goals while reducing energy consumption and energy costs, and provides critical upgrades to important ski area infrastructure.



Commissioner Jeffrey Rose
*Department of Natural
& Cultural Resources*



Benefits

This project helped institute an innovative approach to more efficient snow making and ski condition management at Cannon Mountain. Efficiency measures are expected to help reduce energy consumption at the ski area by 30 percent, while significantly increasing snowmaking capabilities for less cost.

- Increased power reliability and energy efficiency
- Energy savings and increased operational efficiency on the mountain
- Expanded snow making ability at higher elevations
- Reduced compressed air energy and labor to move old guns around the mountain
- 2017 State of New Hampshire Governor's Award for Energy Efficiency
- Annual greenhouse gas reduction of over 2.3 million pounds, equivalent to 244 acres of pine or fir forests storing carbon

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**.

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