



## Project Highlight

# West Lothian Council, UK

AMERESCO 

Scottish Council Implements  
Efficiency Measures to Maximize  
Annual Energy Cost Savings

### Technology Type:

Cogeneration/CHP | Energy Efficiency |  
Energy Savings Performance Contract |  
Interior Lighting and Controls | Solar Power

### Facility Size

**83,750** square metres  
(total of 9 sites)

### Annual Energy Cost Savings

**£186,000+**

### Energy Project Size

**£1,298,610** contract value  
excluding VAT

### Annual Energy Savings

**1,860,932** kWh



### Summary

West Lothian Council selected Ameresco as their energy solution partner through the Non Domestic Energy Efficiency (NDEE) framework for Public Sector Bodies in Scotland. Through detailed investment grade audits, significant energy efficiency opportunities were identified across 9 sites spanning primary and high schools, and a care home.



## Solution

West Lothian Council and Ameresco worked in close partnership to ensure the optimal solution was identified, taking the requirements of all stakeholders into account during the process. The project included several energy conservation measures (ECMs) that were implemented across the 9 buildings in scope, deploying the available funding to deliver the best outcomes for the council.

- Interior LED lighting and controls upgrades
- Building Management System (BMS) optimisation – set points and time schedules
- VSD inverters fitted to pool air handling units (AHUs) and pumps
- Recommissioned 48 kW CHP unit
- 50 kW of rooftop-mounted solar PV
- Enhancements to pipework and insulation

**The project investment has enabled us to significantly reduce our energy consumption across a range of sites, resulting in lower carbon emissions and energy costs and assisting us in our aim of achieving net-zero emissions.**

Peter Rogers  
*Energy & Climate Change Manager,  
West Lothian Council*



## Benefits

West Lothian Council now enjoys significant upgrades to its energy infrastructure. Ameresco has delivered over £1,295,000 in capital investment with a guaranteed annual energy saving of more than £186,000 with a payback of less than 7 years. The Investment Grade Proposal (IGP) prioritised the ECMs to deliver the greatest value to the Council. The suite of ECMs are delivering:

- Optimal use of the West Lothian Council's funding
- Upgrades to ageing energy infrastructure with new technology
- Extended life and optimised operation of existing equipment
- Improved comfort levels for staff, students, and building users – Better environment for children studies
- Reduced maintenance costs (£31,532 saved annually) and enhanced environment
- Significant reduction in annual energy and maintenance costs
- Community workforce development benefits via labor apprenticeships
- Improvements saved 604 tonnes of CO<sub>2</sub> per year

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 **+44 20 3542 8300** or visit **[uk.ameresco.com](https://uk.ameresco.com)**.

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