



## Project Highlight

# Swansea Council, UK

AMERESCO 

## Energy Infrastructure Upgrades Optimise Council Facilities with Cost and CO<sub>2</sub> Reductions

### Technology Type:

LED Lighting | Solar PV | Energy Infrastructure  
Building Management Systems | Energy Savings  
Performance Contract

### Facility Size

67,500 m<sup>2</sup>

### Energy Project Size

~£1.4M

### Capacity Solar

205 kWp

### Annual Estimated Carbon Savings

379 te



### Summary

In response to the Climate Change Act in 2008, by which the UK Government set legally binding targets to reduce greenhouse gas emissions, the Swansea Council selected Ameresco to optimise the energy efficiency of its property portfolio. The project goals also included improving the energy performance of its assets through measured and verified energy efficiency upgrades and/or energy generation, reducing CO<sub>2</sub> emissions, while generating annual cost savings and/or income generation.



## Solution

Ameresco presented a complete and comprehensive Investment Grade Proposal (IGP) to address Swansea Council's needs and provide realistic solutions for the continued effective operations of the Council's facilities. The project included the design, procurement, installation, modification, commissioning, and training for the energy conservation measures (ECMs) to upgrade its energy infrastructure including:

- Implementation & Project Management
- M&V / O&M
- LED lighting and controls
- Building Management Systems (BMS) upgrade
- VSD installation/optimisation
- Electric heater conversion
- Solar PV
- Building fabric improvement
- Heating controls, fan, compressor and pump optimisation



**Swansea Council worked with Ameresco to deliver energy and carbon reduction projects throughout our corporate portfolio. Ameresco identified the measures to reduce consumption and then implemented Energy Conservation Measures (ECMs) such as Building Fabric upgrades, LED lighting, Solar PV, Controls upgrades, heating optimisation to name a few. The Council and Ameresco worked in partnership to deliver the successful project and are looking to work together on further phases of work in the future.**

Antony Moss  
*Energy Manager, Swansea Council*



## Benefits

Ameresco's delivered an estimated 12% reduction in annual energy costs in the sites where ECMs were installed and an estimated reduction of 379 tonnes of carbon per year to advance Swansea Council's decarbonisation goals. The project is designed to deliver the following benefits for the Council including:

- Significant reduction in annual energy and maintenance costs
- Achieves all Salix funding criteria
- Optimal use of Swansea Council funding
- Upgrades to ageing energy infrastructure
- Extended life and optimised operation of existing equipment
- Improved comfort levels for staff and building occupants

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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