



Project Highlight

Beckfoot Trust, UK

AMERESCO 

Beckfoot Trust commitment to climate change and encouraging young people to be part of the discussion on local and global environmental issues

Technology Type:

Building Management System | Boiler | CHP |
Building Fabric Improvements | LED Lighting &
Lighting Controls | HVAC Upgrades | Measurement
& Verification | Solar PV

Facility Scope

26,258 square metres

Annual Energy Savings

1,322,643 kWh

Annual CO₂ Reduction

282 tonnes

Project Size

£1.1 Million



Summary

Beckfoot Trust is a Multi-Academy Trust family of ten schools, primary, secondary & special, in the Bradford, West Yorkshire, UK. Our vision is *No Child Left Behind* and we aim to create remarkable schools that represent the communities they serve. The Trust runs 10 schools on 9 sites with over 7,000 pupils. The Trust's estate includes Victorian buildings and modern schools built through Private Finance Initiatives.

The Trust have committed themselves and their resources to becoming a more sustainable and energy efficient organisation, and have developed an Environmental Strategy built around this aim and the UN's Sustainable Development Goals for the benefit of the whole community. The project with Ameresco forms a key part of this planning.

Beckfoot
Trust



Solution

Throughout this project, Ameresco has helped Beckfoot Trust understand and monitor their energy consumption, by replacing inefficient equipment and lowering their overall carbon consumption. Ameresco's services include development of an investment grade proposal, implementation and project management, and post-completion measurement & verification. This project's energy conservation measures include:

- LED Lighting Replacement and Lighting Controls
- Building Management System Upgrade and Optimisation
- HVAC Optimisation including Variable Speed Drivers (VSD) Installation, A/C Controls and Pipework Insulation
- Equipment Operating Schedules Optimisation
- Building Fabric Improvement
- Renewable Energy for the Trust: 246 kW Solar PV Installation
- Boiler Upgrade and Optimisation
- Water Conservation including Pool Cover and Filter System Upgrade
- Transformer Tap Down

As part of our commitment to the improvement of energy efficiency in our buildings we have committed to invest over £1m in energy conservation measures at six of our schools, Beckfoot Nessfield, Thornton, Priestthorpe, Allerton, Phoenix and Heaton. The work is nearing completion with installation of insulation, LED lighting, efficient water heaters and boilers and solar PV panels at many of the schools. The long-term costs savings from the installations mean we can channel more of our funding into improving outcomes for Bradford students to make our aim of creating remarkable schools a reality in all our settings.

We are grateful for the support of our schools and to a dedicated team across our Trust and of course Ameresco project managers and contractors for their planning, collaboration and driving this work forward. They have worked sensitively and flexibly over the last year under COVID working conditions. We are excited about the opportunities to use these newly installed systems, such as solar PV, to educate and inspire our young people, and the wider community, about the environment, climate change and sustainability as we approach Climate Change Conference of the Parties, COP26, in November 2021.

Chris Burland
Operations Director
Beckfoot Trust



Benefits

By implementing the improvements provided by these ECM's, Beckfoot Trust will benefit from a significant upgrade to its energy infrastructure. Through this Re:Fit project, Ameresco will deliver long term carbon, energy and cost savings. This will help to improve the welfare and comfort of Beckfoot Trust's pupils and staff.

- Significant reduction in carbon emissions (282 tonnes per year)
- Annual energy savings of over 1.3 MWh and 25% reduction in annual energy costs (£92K)
- Significant reduction in annual energy and maintenance costs
- Improved comfort levels for staff and pupils
- Optimal use of Beckfoot Trust funding
- Upgrades to ageing energy infrastructure; Extended life and optimised operation of existing equipment

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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