OUR LADY OF LOURDES

CATHOLIC MULTI-ACADEMY TRUST

Environmental Policy and Annual Report

DOCUMENT CONTROL
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~~Version 1.02~~
~~Version 1.03~~
Version 1.04

November 2021

Trust Mission Statement
We are a partnership of Catholic schools and our aim is to provide the very best Catholic education for all in our community and so improve life chances through spiritual, academic and social development.

We will achieve this by:

- Placing the life and teachings of Jesus Christ at the centre of all that we do
- Following the example of Our Lady of Lourdes by nurturing everyone so that we can all make the most of our God given talents
- Working together so that we can all achieve our full potential, deepen our faith and know that God loves us
- Being an example of healing, compassion and support for the most vulnerable in our society

Numbers 35:33-34 ESV

You shall not pollute the land in which you live, for blood pollutes the land, and no atonement can be made for the land for the blood that is shed in it, except by the blood of the one who shed it. You shall not defile the land in which you live, in the midst of which I dwell, for I the Lord dwell in the midst of the people of Israel.

This Policy was approved and adopted by the Academy Trust Company on:	4.12.2020
Policy Reviewed on:	Nov 2021
Next Review date:	Nov 2022
Reviewer:	Dave Burrough / OLOL Trust

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Background

In partnership with the Diocese of Nottingham, Our Lady of Lourdes Catholic Multi Academy Trust has a strategic vision to make a significant contribution to both national and global efforts to achieve environmental sustainability. Our aim is to continue to develop the Trust's estate in a way that provides first-class teaching and learning environments whilst reducing the environmental impact of our activities and services. Environmental management is an essential element of sustainability and sustainable development at the Trust is a cornerstone of our Strategic Plan.

Environmental statement

The Trust is committed to best environmental practice and to continually improve its environmental performance through effective and appropriate environmental management practices and is committed to publicly promoting this policy and our performance in these areas.

We are committed to minimising the environmental impact of our activities at the local, regional, national, and global levels. The Trust has set out its commitments to the environment in this Environmental Policy and has already made considerable progress in addressing environmental issues through its travel planning, recycling and energy saving activities.

Greenhouse gas emission reporting

The Trust accepts its responsibility to report greenhouse gas emissions under the GHG protocol. The Trust will utilise the GHG protocols to direct its strategy.

Policy

It is the Trust policy to:

- Minimise our environmental impact
- Send zero waste to landfill
- Maximise recycling
- Minimise our use of natural resources
- Minimise hazardous waste
- Ensure that all developments take into account sustainable construction principles and avoid the use of environmentally damaging substances, materials and processes
- Work with our supply chain to reduce our environmental impact
- New buildings will be carbon-neutral
- Where facilities are redeveloped or redeployed, we will ensure that energy usage within the building envelope is reduced, and this will form a key part of our project option appraisals
- Ensure that existing facilities are as efficient as possible through the development of sustainable buildings
- Implement the Environmental Strategy in full

Strategy

The Trust continues to contribute positively to sustainability through its commitment to operational carbon neutrality by 2030. We recognise that there are negative environmental impacts associated with our activities and we aim to minimise these by incorporating consideration of the environment into our planning, decision-making and processes.

In accordance with our commitment to 'best environmental practice' we will undertake the following activities in order to promote effective environmental management:

1. Identify current emissions and the environmental risk of the Trust's operations and develop mechanisms to monitor and mediate the significant impacts of these
2. Deliver environmental improvements to the Trust's estate and working practices through both education and investment sources including Salix Finance and private sector partners

Annual report

Our waste streams, heating and hot water production, IT and lighting have been identified as the biggest risk to the environment followed by procurement, product supply and packaging.

Trust emissions September 2020 – August 2021

UK Greenhouse gas emissions and energy use data for the period 1 September 2020 to 31 August 2021

Energy consumption used to calculate emissions (kWh)	9234420.30
Energy consumption breakdown (kWh)	
Gas	6798834.42
Electricity	2405489.96
Transport fuel	30095.92
Scope 1 emissions in metric tonnes CO2e	
Gas consumption	1233.71
Owned transport – mini-buses	1.90
Total scope 1	1235.61
Scope 2 emissions in metric tonnes CO2e	
Purchased electricity	614.84
Scope 3 emissions in metric tonnes CO2e	
Business travel in employee-owned vehicles	3.74
Total gross emissions in metric tonnes CO2e	1854.19
Intensity ratio	
Tonnes CO2e per pupil	0.20

Trust greenhouse gas emissions for the period 1st September 2019 to 31st August 2020 was 2199.13 tonnes CO2e. This equates to 0.20 tonnes CO2e per pupil.

Year-on-year performance charts

Chart 1 shows a reduction in energy consumption across the Trust equating to -0.037 Tonnes CO2e per pupil.

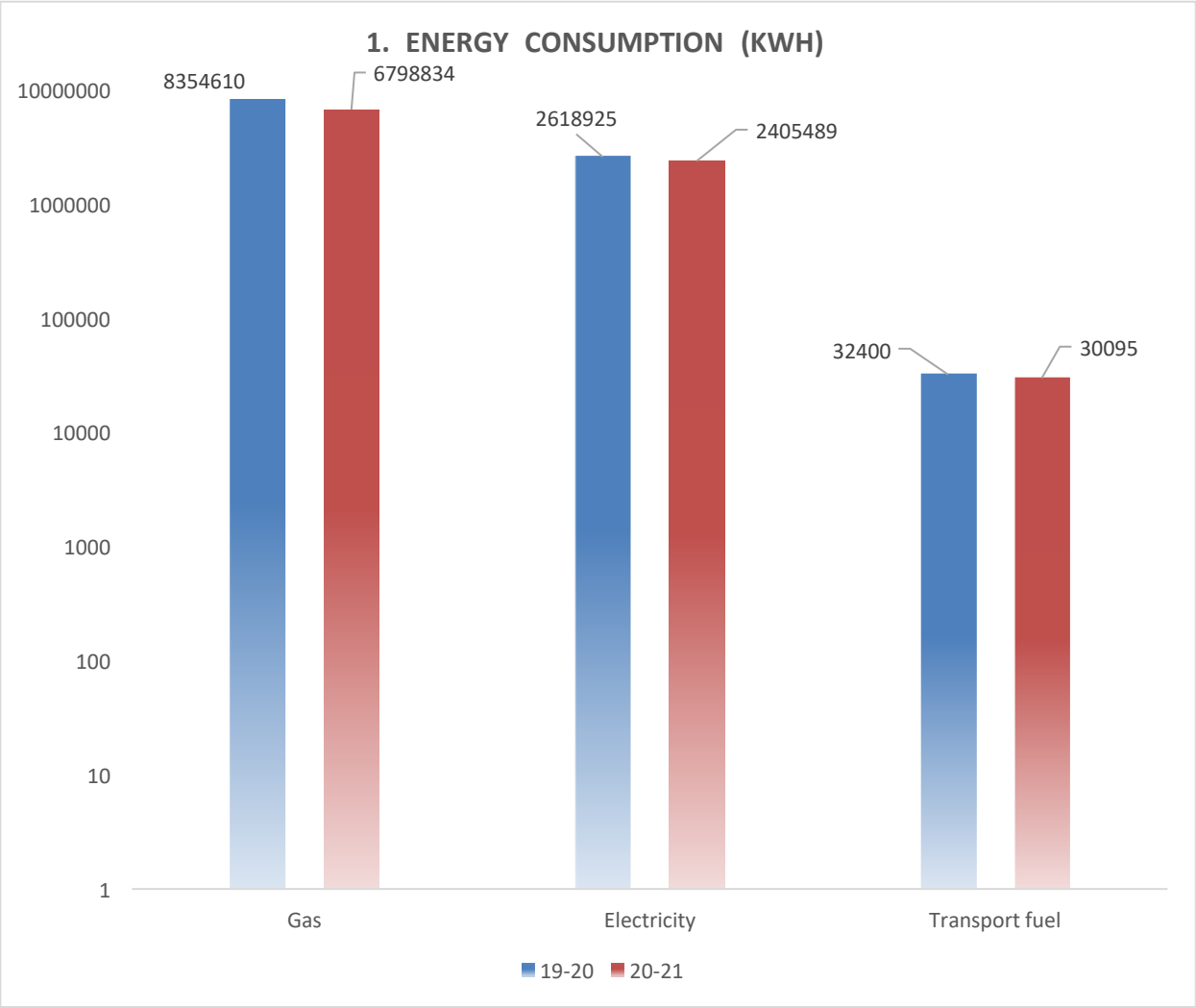


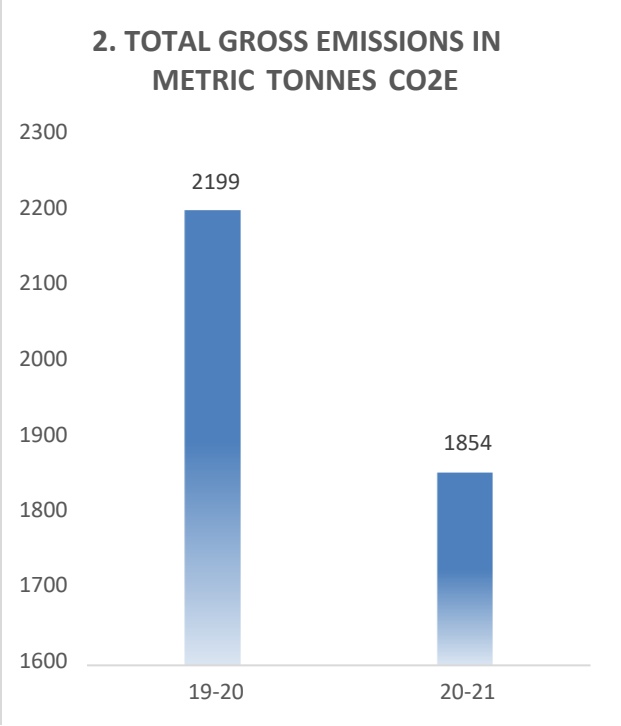
Chart 1 - energy consumption for:
September 2019 - August 2020
September 2020 - August 2021

Chart 2 Total Gross Emissions

Chart 3 Intensity Ration

shows a reduction in C02e emissions across the Trust equating to -0.037 Tonnes CO2e per pupil. This is made up of the following elements:

Emissions in metric tonnes CO2e	Variation
Gas consumption	-282.31
Owned transport – mini-buses	-1.41
Purchased electricity	-54.55
Business travel in employee-owned vehicles	-6.66



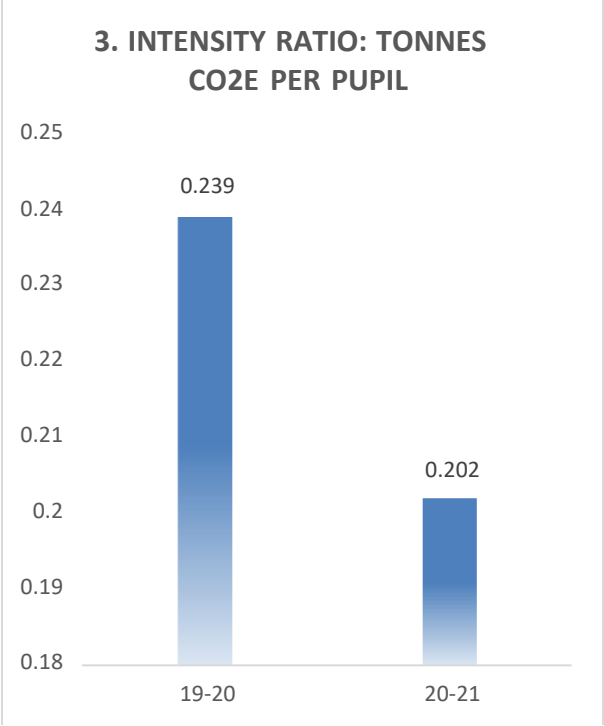


Chart 2 – Total Gross Emissions (C02e)
September 2019 - August 2020
September 2020 - August 2021

Chart 3 – Total Gross Emissions (C02e)
September 2019 - August 2020
September 2020 - August 2021

Chart 4 – Average UK Temperatures

Chart 4 shows that average UK temperatures were generally higher than the long-term mean (LTM) in 19-20. In 20-21, average temperatures have fluctuated. Average temperatures and the associated heating degree days have an impact on our energy heating consumption carbon emissions.

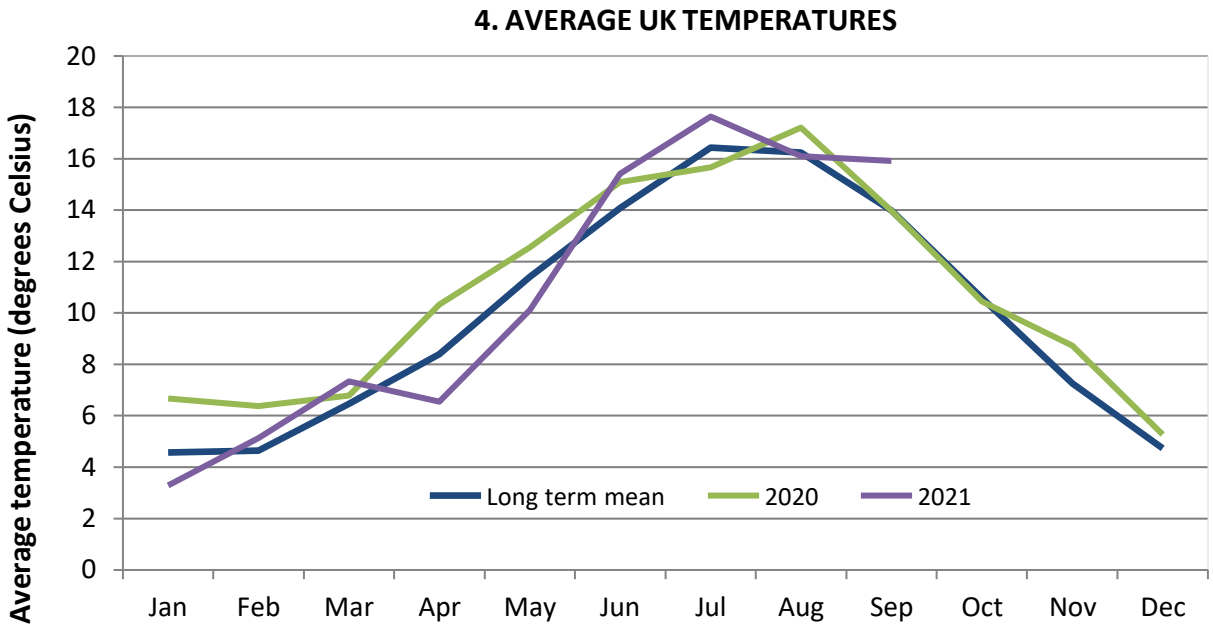
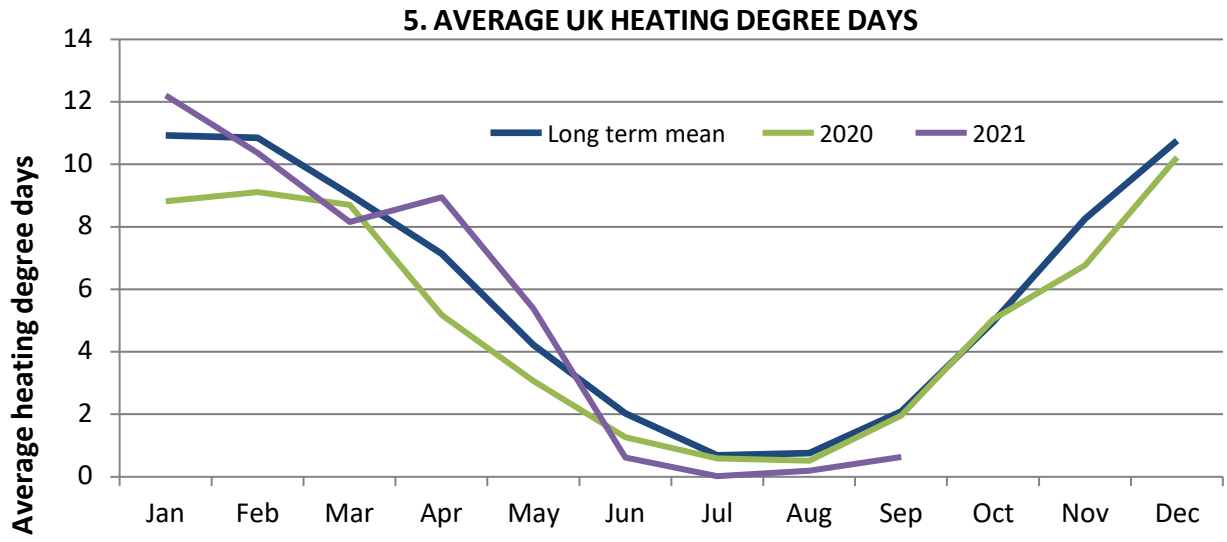


Chart 5 – Average UK Heating Degree Days

Chart 5 shows that average UK Heating Degree Days in 19-20 were above the long-term mean (LTM). In 20-21, values dropped below the LTM in May and have remained below to date.



1. Based on data provided by the Meteorological Office. Information on the methodology used is given in footnotes to DUKES table 1.1.7 at:
https://www.gov.uk/government/statistics/weather-digest-of-united-kingdom-energy-statistics-dukes
and in the June and September 2011 editions of Energy Trends.

Environmental improvements

During the Trust financial year 2020-2021, we addressed the following:

- Replaced the natural gas-fired heating system at St Margaret Clitherow Primary School with a heat pump system
- Replaced the natural gas-fired hot water system at St Margaret Clitherow Primary School with a hybrid heat pump and direct solar system
- Installed a new passive solar array at St Margaret Clitherow Primary School
- Installed new double-glazed windows at St Margaret Clitherow Primary School
- Installed new loft insulation at St Margaret Clitherow Primary School
- Installed new double-glazed windows at Good Shepherd Primary Academy
- Installed a new passive solar array at Good Shepherd Primary Academy
- Installed new double-glazed windows at All Saints Academy
- Installed a new passive solar array at All Saints Academy
- Installed a new passive solar array at St Joseph's Primary School, Langwith Junction
- Replaced a sterilising sink with an energy efficient dishwasher at Holy Cross Primary Academy
- Worked with our catering provider to eliminate plastic disposable cutlery
- Worked closely with responsible property officers to reduce gas consumption through heating systems
- Upgraded heating system controls

Ongoing strategy

To maintain our progress, we will:

- Continue to press forward with our agenda through education through our 'Environmental Champion' volunteers at each school
- Continue work towards our 'carbon neutral by 2030' target by identifying further environmental aspects of the Trust's operations and develop mechanisms to monitor and mediate the significant impacts of these
- Upgrade the passive solar array at St Joseph's, Boughton
- Upgrade the chapel at All Saints Academy to a heat pump system
- Continue working towards replacing mobile buildings with permanent energy efficient buildings
- Make the most efficient and effective use of all resources, encouraging members of our community to develop a sustainable approach to the activities they undertake
- Encourage and facilitate sustainable modes of transport to and from our sites
- Minimise our carbon emissions where viable, and develop and implement effective energy and water conservation measures
- Minimise the use oil-based paints, floor coverings and cladding
- Reduce overall waste production and increase the recycled component of waste streams
- Manage our grounds in an environmentally and biodiversity-sensitive manner
- Foster environmental aspects of the Trust's teaching
- Set targets on environmental performance in our implementation of activities
- Engage with our community, neighbours and business partners to progress environmental initiatives and exchange ideas and activities that improve the performance of all
- Monitor and report on our progress towards our targets
- Promote awareness across our community of the need to achieve sustainable use of resources for the benefit of the Trust and society as a whole
- Ensure that the Trust compliant with legal requirements and can demonstrate our compliance through appropriate procedures and management information.

We will continue to plan and work towards our carbon neutral target by ensuring that existing facilities are as efficient as possible. This will be achieved through education, effective management and the following emerging technologies and innovations:

- Air source heat pumps
- Energy efficient server replacement
- Multi-functional device upgrades
- Network PC power management
- Thin client utilisation where curriculum usage supports
- Uninterruptible power supply upgrades
- Continue to replace lower power efficient IT storage with solid state devices
- Cooling control system, plant replacement and upgrades
- Hand dryer replacement
- Heating distribution pipework and zone control improvements including TRV's
- Hot water service distribution improvements, point of use heaters and efficient taps
- Energy efficient combi-ovens, convection-ovens, and steamers
- Loft space insulation
- Floor Insulation
- Roof insulation
- Draught proofing
- Ambient and heated air curtains
- Automatic/revolving doors
- Draught lobbies
- Heating and hot water service pipework insulation
- Energy efficient refrigerators, freezers and control systems including occupancy control
- Heat recovery on extraction systems
- Replacement of internal and external lighting with LEDs
- Fixed speed and variable speed drives and motor controls
- Solar PV
- Thermal solar
- Time switch and occupancy control installation
- Voltage management and phase balancing
- Ventilation, fan efficiency, air distribution and occupancy controls
- Boiler replacement and retrofit economy controls
- Wider embedded use of video conferencing to reduce carbon consuming journeys
- Refurbished IT equipment where appropriate and energy efficient

Minimisation and disposal of waste

The Trust accepts responsibility to protect and sustain the environment whilst carrying out our normal activities. Management and staff will ensure that our actions comply with all relevant legislation and will endeavor, at all times, and promote the use of sustainable resources whilst eliminating or reducing practices that are wasteful or damaging to the environment. We are committed to minimise any negative effects from our operations at all times by:

- protecting the natural environment
- reducing the use of natural resources
- reducing the creation of unnecessary waste at source and point of delivery
- preventing and/or minimising pollution caused by the Trust's activities
- promoting the reuse and recycling of products where possible
- ensuring that management and staff receive training on environmental issues

The Trust encourages all members of its workforce to act in a way that will improve rather than harm the environment and will welcome any initiatives that will help achieve this. We are committed to our sustainable waste management programme and minimising any detrimental impact that our business may cause and putting sound environmental processes in place.

The main waste streams from school sites are listed below along with our environmental mitigation:

Sealed batteries
Used as back-up power supplies for electronic access control systems, UPS, power banks and emergency lighting systems. When these batteries become unserviceable, they have to be replaced. Old batteries are stored under controlled conditions until they are collected by a licensed disposal contractor. At present there is no viable alternative to the use of batteries as back-up power supplies. However, battery technology (prompted by the needs of the mobile telephone industry) is improving all the time.

Repair, rather than replace
Our maintenance team are highly trained and will affect repairs to equipment whenever possible as both a service to schools and a benefit to the environment.

Manufactured products
The Trust does not directly manufacture any products. We only deal with manufacturers and suppliers who are committed to ensuring that they protect the environment wherever possible.
Because of greater environmental awareness more and more products are now being recycled and we will continue to work with our suppliers and service providers to do more.

Confidential waste
Wastepaper such as obsolete files and documentation is collected separately for secure disposal by recognised reclamation contractors.

Reducing wastepaper
We are constantly striving to reduce the amount of wastepaper created by our work. As a result of this we are focusing on paperless systems. Preventative and reactive maintenance is now carried out using an electronic flow of information which reduces our paper use significantly. Correspondence and reporting are also produced and recordedelectronically wherever possible to reduce paper usage. A print-release functional on multi-functional devices (MFD's) has been implemented on identified high volume machines. This reduces instances of waste due to non- collection of printed documents as the user has to physically visit the MFD to release the printed materials.

Food waste
Dry recyclables are collected locally and transferred to bulk collection points. Food waste is not sent to landfill. It is collected and incinerated to power the Nottingham district heating scheme.

Single-use plastics
We will work with our suppliers to minimise the use of single-use plastic containers and packaging in year one and eliminate, so far as reasonably practicable, in year 2.

Recyclable waste
Dry recyclables are collected locally and transferred to bulk collection points. These are then processed by Nottingham City Council as the Trust's contracted waste carrier / processor.

General waste
General waste is collected locally and transferred to bulk collection points. General waste is not sent to landfill. It is collected and incinerated to power the Nottingham district heating scheme.

Science Departments, Design Technology Departments and Maintenance Departments hazardous waste
Reduce the usage of materials that may produce hazardous waste through local risk assessment. All hazardous waste is disposed of by a registered contractor.

Contractors and service providers
Ensure that all contractors and service providers and suppliers meet our high standards.

Clinical waste
Clinical waste is disposed of by a registered contractor.

Minimisation of Travel

The Trust accepts responsibility to minimise its emissions from employees travelling to meetings in private vehicles. We wish to minimise this, where possible here meetings can be undertaken remotely, we will do so. The Trust launched a 'work from home' trial in September 2020 and this is still in progress. This scheme encourages office staff to work from home, rather than travelling to work. The trial will investigate increased opportunities to minimise the Trust travel carbon footprint.

Financing Decarbonisation

The Department for Business Energy and Industrial Strategy is making funding available via the Public Sector Decarbonisation Scheme (PSDS). To fully decarbonise the Trust estate an investment in excess of £1m is required at secondary schools and 0.5million at our primary schools. Clearly, this is based on an average property and further investment will be required to meet the needs of individual properties. The majority of the Trust estate is of CLASP/Hallam construction built in the 1960's and 1970's. Working in partnership with the Diocese, we will target both this funding source and other capital investment opportunities through identified funding streams working with BEIS through Salix Finance and private sector partners.

Roles and responsibilities

The Estates and Finance Committee is responsible for the approval and review of the Environmental Policy and for reviewing and monitoring the Trust's activities. The Committee is supported by the Director of Estates and Facilities who recommends targets in specific areas of environmental performance and undertakes monitoring.

1. The Estates and Finance Committee oversee the Trust's decarbonisation and sustainability strategy
2. The Director of Estates and Facilities leads on sustainability and works closely with other directors and Head Teachers and reports to the Estates and Finance Committee
3. The Director of IT leads on information technology infrastructure and works closely with other directors and Head Teachers
4. The Director of Finance leads on sustainable purchasing
5. Head Teachers lead advisory and user groups locally and report to the Directors of Performance and Standards
6. Environmental Champions will promote awareness at a local level
7. School Department Heads report to the Head Teacher
8. Student councils across the Trust are a key partner in improving environmental performance