ATLAS
MULTI-ACADEMY
TRUST

ATLAS Sustainability Strategy 2023

Aspire To Learn And Succeed

Energy Strategy

Climate change is a major cause of concern for students, staff and parents. The Trust has a moral obligation to make improvements in energy efficiency and drive reductions in carbon emissions where possible.

Change is possible through focussed activity across the following four key areas:

Energy Procurement	Reduction of Energy Consumption	Generating Energy	Embedding Behavioural Change
Buying energy in an efficient and sustainable manner across the Trust.	Investment in programmes of work and activity to reduce our energy consumption	Investment in programmes to generate our own renewable energy (e.g. Solar Panels)	Affecting organisational change to ensure energy efficiency and sustainability are key considerations of everything the organisation does

Following an internal review of the options it has been agreed the Trust needs to set out an ambitious policy which builds on its success and ensures the Trust meets its responsibilities under the UK Government Carbon reduction commitment whilst leaving a real legacy for future generations:

The Strategy moving forward focuses on further reduction of energy consumption and generating a greater proportion of its own electricity which will make the most of the current central contract which are in place which have no minimum use restriction.

As such the Trust propose that by 2030 it will:

• Reduce the Trust carbon footprint by over 20% from scope 1 &2 (Scope 1 – Direct emissions from owned or controlled sources and Scope 2 – indirect emissions associated with purchased energy from the 2022 levels.	• Ensure the electricity not generated on site is procured from green sources.
• Reduce Scope 1 & 2 emissions from 780 tCO_2e to 623 tCO_2e	• Have the facilities on site to charge electric vehicles.
• Salix Application to Public Sector Low Carbon Skills Fund	• Be self-generating 50% of the electricity used.
• Have substantially reduced the use of gas by 10%.	• Move all server storage offsite – to cloud based low carbon provider.
• Heat Decarbonisation Plan	

These ambitious targets not only help with addressing the Trust's carbon footprint, but also support the financial challenges the Trust faces. Our Trust-wide sustainability policy has been agreed and is supported at Trustee/Board level. In turn, this policy will be developed into a bespoke plan and targets for each academy

within the Trust. These targets are shown in the Decarbonisation Roadmap (See Appendix A). This will be regularly updated as the Trust navigates its way along the journey to net carbon zero.

Trust Target

The reduction of the Trust carbon footprint is directly linked to the consumption of energy from the grid or renewable sources. This in turn has a day-to-day financial implication for the Trust in that it has to pay for energy consumed from its general annual grant.

If the Trust can reduce its carbon footprint from the position it was in 2022 by 20% by 2030 then this could save 157 tCO_2e tonnes of carbon and also bring a financial benefit for the Trust by releasing £200,000 by 2025. This is measured against what the Trust could be expected to pay for energy in those years based on energy price forecasts.

This will be achieved by reducing the electricity from the grid by 50% and gas consumption by 10%.

These are ambitious but realistic targets and will leave both a financial and carbon reduction legacy for future generations of staff and students

Measuring the impact of actions - Current position on the decarbonisation journey

The summary of the current position against the organisations carbon commitment is set out below.

Target emission (Tonnes)	Current emission (Tonnes)	Gap to plan (Tonnes of C02)
623 tCO_2e	623 tCO_2e	157 tCO_2e

Measuring the impact of actions - Carbon reduction in the past year

Using existing energy consumption figures for the year 2020/21, the table below sets out the impact of the Decarbonisation Plan in the past 12 months. This is based on the actions and projects agreed in the Decarbonisation Roadmap (See Appendix A)

Following the audit undertaken by Save Monday – Cut Carbon the outcome of greenhouse gas emissions alongside the energy usage the following was reported and used to generate the figures and targets for this report.

Greenhouse gas emissions and energy use data for the period		1 September 2021 to 31 August 2022			
		STAGS	**Adeyfield**	**Beech Hyde**	
Energy consumption break down (kWh) (optional)					
	Natural Gas	1,535,893	840,443	154,810	kWh
	Electricity	529,260	316,431	63,298	kWh
	Transport Fuel				**litres**
Energy consumption used to calculate emissions (kWh)	**Total energy consumption**	**2,065,153**	**1,156,874**	**218,108**	**kWh**
Scope 1 emissions in metric tonnes CO2e					
	Natural Gas	281.3	153.9	28.4	tCO_2e
	Owned transport – mini-buses	0	0	0	tCO_2e
	Total Scope 1 emissions	**281.3**	**153.9**	**28.4**	**tCO_2e**
Scope 2 emissions in metric tonnes CO2e					
	Electricity	135.3	80.9	16.2	tCO_2e
	Total Scope 2 emissions	**135.3**	**80.9**	**16.2**	**tCO_2e**
Scope 3 emissions in metric tonnes CO2e					
	Business travel in employee owned vehicles				Miles
	Total Scope 3 emissions	**0.0**	**0.0**	**0.0**	**tCO_2e**
Total Emissions		**416.6**	**234.8**	**44.5**	**tCO_2e**
Number of Pupils		1,392	563	185	
Intensity Ratio, Tonnes CO2e per pupil		0.30	0.42	0.24	tCO_2e/pupil

The figures in the matric below will be used to set the targets for 2023-24 review and ongoing, this is why they are currently blank as no comparison to last year can be made.

Gas						
Annual Gas Consumption (kWh)	Annual Gas Spend (£)	Annual Carbon Emissions (Tonnes)	Saving in last period (£)	Saving in last period (kWh)	Target emission (Tonnes)	Gap to plan (Tonnes of C02)
2,531,146kWh	£117,837	463.6 t/C02	£0 Costs of contracts increased	? kWh kWh not recorded in 2021/22	463.6 t/C02	X t/C02
Electricity						
Annual electricity Consumption (kWh)	Annual Electricity Spend (£)	Annual Carbon Emissions (Tonnes)	Saving in last period (£)	Saving in last period (kWh)	Target emission (Tonnes)	Gap to plan (Tonnes of C02)
908,989 kWh	£148,048	232.4 t/C02	£0 Costs of contracts increased	? kWh kWh not recorded in 2021/22	232.4 t/C02	X t/C02
Solar Generation						
PV arrays present across the estate (kWp)	Annual Generation in last period (kWh)	Annual Carbon Emissions saving in last period (Tonnes of C02)	Saving in last period (£)	Saving in last period (kWh)	Target emission (Tonnes)	Gap to plan (Tonnes of C02)
0 kWp	£0	0 t/C02	£0	0 kWh	0 t/C02	0 t/C02

Summary of actions completed

The following actions have been taken in the past 48 months in support of the Decarbonisation Plan.

Actions undertaken to date							
Energy Procurement		**Reduction of Energy Consumption**		**Generating Energy**		**Embedding Behavioural Change**	
Action	**Owner**	**Action**	**Owner**	**Action**	**Owner**	**Action**	**Owner**
Best price secured for utilities in Sep 2021. Had to remain with the incumbent due to supply crisis	POL	More efficient boilers at STAGS in Aug 2021	POL & ETR	LED lighting roll out continued in new builds	SITE Teams	Re-cycling initiatives introduced	POL

in the uk to ensure the relief from government was secured							
		Cif bids submitted on time – Dec 2022	POL	Action plan agreed by Trustees	Trustees	Review of schools Green policy at STAGS	Executive Team
		Decarbonisation information shared with HCC	POL			Staff training across the trust	POL
		LED lighting installed at STAGS and BH in 2017 – payback period now reduced due to energy costs.	POL			Funding to be received for energy improvements in school – Headteacher to support the COO in delivering identified projects	Executive team
		Energy efficient IT equipment installed	POL			Project delivery	Site team and Headteachers
		Scope 1,2 &3 carbon footprint audit completed	POL				

Summary of next steps

The following actions are planned in the next 12 months in support of the Decarbonisation Plan.

Actions Planned in next period							
Energy Procurement		**Reduction of Energy Consumption**		**Generating Energy**		**Embedding Behavioural Change**	
Action	**Owner**	**Action**	**Owner**	**Action**	**Owner**	**Action**	**Owner**
Continue to work with expense	POL & KRE	Investigate PV at all locations	POL	PV investigations	POL	Green Policy role out across the trust	Headteachers

reduction analysis to obtain best possible price							
Move BH supply from LASER to ERA at the end of the contract in Nov 2023	POL	Apply to DfE for a lease for PV if appropriate	POL & KRE	Car charging points at all schools		Student council projects	Headteachers
Energy survey (to Inc water) to take place	POL	IT equipment and energy saving initiatives put in place	NCE			Electric car lease scheme for staff	POL
Water supplier to be reviewed	POL	Findings from audit to be investigated	POL			Review travel plan for all schools	POL & SBM and Headteachers
		Review condition survey and implement	POL, SRS, ETR, KHY			Site energy surveys to take place	POL
		Investigate Salix / decarbonisation funding	POL			Sustainability included within the schools improvement plans and key area for Trustees	Executive Team
		CIF bids – water improvements across all schools in the trust	POL			EV Charging at all sites	POL
		Public Sector Low Carbon Skills Fund (LCSF)	POL				
		Undertake Heat Decarbonisation plan at TAA	POL				

Carbon Reduction Commitment

Context

The UK Climate Change Act 2008 is a landmark piece of environmental legislation and one that continues to attract interest and inspire action all round the world. It sets out a clear, legally binding framework to reduce greenhouse gas emissions and to ensure that the UK plays a part in avoiding dangerous climate change. The Climate Change Act 2008 set the countries' emission reduction targets. The 'legally binding' targets are a reduction of least 80% by 2050 (against the 1990 baseline).

In 2017 the Department for Business, Energy and Industrial Strategy state that schools used around 13 terawatts of electricity and generated over 4.6 million tonnes of carbon. This equates to almost 1% of the UK carbon emissions and 20% of public sector emissions based on the 2017 Clean Growth Strategy data.

An average secondary school produces between 200 and 300 tonnes of carbon per annum and a typical primary between 40 and 70 tonnes of carbon. Developing a strategy to impact the carbon dioxide emissions for the UK's schools and academies would contribute to the UK government reducing its own carbon footprint.

The Department for Business, Energy and Industrial Strategy is currently encouraging academies to use data from smart metering to help schools reduce their energy consumption by 15% and emissions by 40% by 2030

Our Commitment

"At ATLAS Trust we are committed to achieving the Department for Business, Energy and Industrial Strategies targets for carbon Reduction."

Statutory Requirements

At the current time there are no compulsory CO2 emissions limits or targets for schools and academies to comply with. Statutory requirements relate only to measurement and reporting as set out below:

Display Energy Certificates (DEC) requirements

A DEC shows the energy performance of a building based on actual energy consumption as recorded over the last 12 months within the validity period of the DEC (the operational rating). This rating is shown on a scale from A to G, where A is the lowest CO2emissions (best) and G is the highest CO2 emissions (worst).

A DEC and advisory report are required for buildings with a total useful floor area over 250m that are occupied in whole or part by public authorities and frequently visited by the public.

From 9 January 2013, if you are an occupier of a building requiring a DEC, you will need to display a DEC showing an operational rating in a prominent place clearly visible to the public. You will also need to have in your possession or control a valid advisory report.

Where the building has a total useful floor area of more than 1,000m², the DEC is valid for 12 months. The accompanying advisory report is valid for seven years. Where the building has a total useful floor area of between 250m² and 1000m², the DEC and advisory report are valid for 10 years.

The school/Trust has the following arrangements in place for the production of DECs

Each school will display the DEC certificate in accordance with our statutory requirements. The production of the schools DECS will be via appropriate tender – currently Zenergi LTD

Streamlined Energy and Carbon Reporting (SECR) requirements

The Companies (Directors' Report) and Limited Liability Partnerships (Energy and Carbon Report) Regulations 2018 came into force on 1 April 2019 and apply to financial years starting on or after 1 April 2019. The legislation is aimed at tracking progress to the government's carbon reduction targets.

The regulations require academy Trusts from their financial year 2021 – 2022 to report their greenhouse gas emissions under the Streamlined Energy and Carbon Reporting (SECR) requirements. This requires the Trust to develop key performance indicators which:

a) Clearly reflect the scope of matter material to both your company and your stakeholders.
b) Transparently review the quality of your disclosures.
c) Provide clear conclusions on data quality and processes.
d) Be conducted by a qualified, independent third-party reviewer.
e) Meet the requirements of a recognised standard
f) Be easily understood and jargon free

Decarbonisation Plan

The framework for delivery of this decarbonisation plan

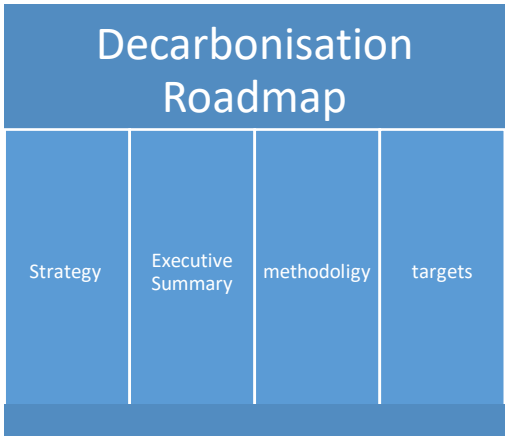
The process below represents the process being adopted to provide a clear and transparent framework for delivery of the decarbonisation plan. The constituent parts feed into a cyclical process of continuous improvement towards decarbonisation. The section that follows sets out the process adopted in more detail.

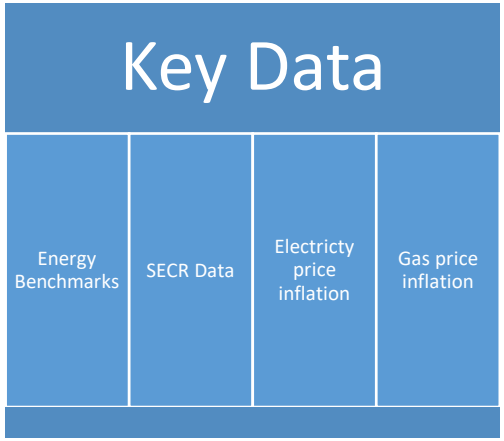
Stage 1	Strategy	This is a desktop assessment stage which assesses the potential benefits an energy management transformation process could generate. The resultant strategy will be formed from this strategic planning process, with the ultimate objective of delivering our energy policy. Atlas Trust will use our existing knowledge of the built environment, experience of previous installations and standard parameters for energy prices to modelling the potential for energy saving schemes across the whole organisation. This will result in the setting of targets, timescales and agreement of areas of focus.
Stage 2	Policy	The Policy sets the vision, objectives and targets that the Trust will adopt. As well as setting measurable targets, it will also help to engage stakeholders and drive meaningful, urgent action. Our aim is reducing our carbon footprint and where possible saving money.
Stage 3	Energy surveys	This will involve completion of energy audits across the entire estate. It will identify possible energy saving and decarbonisation measures that could be adopted to drive forward reductions in energy consumption and/or generate cost savings. The audits will include budgets for capital works costs plus carbon and cost savings.

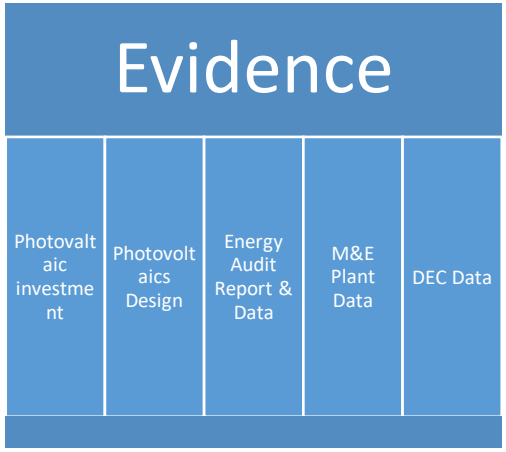
Stage 4	Energy transformation plan	This stage will develop the energy survey data into a detailed energy transformation plan including a schedule of all of the energy efficiency projects which could be completed, with cost estimates based on current market prices with associated timing plans. The proposal will also consider the funding options available as part of the next stage. It is also possible then to look at phasing and prioritisation of works across the estate to gain maximum savings at the earliest opportunity. The culmination of this process will form an Energy transformation plan which will provide the detailed roadmap to achieving the Trust's targets.
Stage 5	Analysis	Collecting, analysing and presenting data plays a key role in measuring the success of energy transformation. Using real time data presented in a simple format is key to monitoring energy usage and costs across the estate. This stage will focus on how the Trust reports and analyses data collected from condition surveys, audits and the government's published data on finances and performance and present it in easy-to-understand graphs and tables. The Trust leadership can use this information to quickly understand the issues and opportunities, benchmark the data against others and make the best strategic decisions to drive positive change.
Stage 6	Funding	The capital investment required to undertake the energy transformation process can be seen as a barrier for many education providers. There are a range of funding options and grants available to assist implementation. The team will appraise the available funding opportunities and identify the optimum approach. This will consider factors such as capital outlay, return on investment, upcoming funding schemes, external funding opportunities, timing and risk.
Stage 7	Implementation	Once the scope of work and funding has been agreed and funding is approved, an implementation plan will be developed which will match efficient project management with minimal disruption to day-to-day operations. To drive the implementation a Project Team will be established including the following roles – Project Management, Design Services, Contractors/Installers, Health & Safety CDM advisors, Cost Managers. Technical Assurance.

The table in the next section summarises the activity covered in each of these stages and provides detail around the outcomes expected at each stage. It should be recognised that the journey towards net carbon zero is not a linear one. As such it will be necessary to apply the above process as a 360 degree “loop”. Change will happen in phases and cycles. As such, each phase or cycle will involve feeding data, learning and savings back into the process to enable continuous improvement.

Decarbonisation Implementation Process







Decarbonisation roadmap contents

Building Inventory

- The building invetory provided an overview of the size and make up of the Trust estate and details the age of each building, construction type its size and operational hours as well as detail on its location and surroundings

Energy use

- Provide an insight into the Trust consumption data for the trust and how it evidences in the our dispaly energy certificaes and SECR reports

Project Matrix

- Provides insight into out ten year investmnet programme as well as deatiling progress to date the matrix focuses on the investments in key areas but also looks at maitenacnce costs and EV charging

Challenges

- Details the Governance process for the trust as well as defining solutin to the challenges the trust faces in delivering decarbonisation startegy

Planning

- Addresses the planning issues each academy within the trust needs to consider when developing its decarbionisation plan

Agreed Supply Capacity

- Overview of current agreed supply capacity along with details of Forcast Capacity Requirments andactiojns to reduce demand

Heating Systems

- Condition data on the current Heating Systems as well as overview of the key elements which make up the system

Hot Water

- Details on the hot water infastructre within each building

Project Governance

- Insight into the Trust Project Delivery and Governance Process

Complete Projects

- To date we have made considerable investment in our esstates, this dashboard captures the cost as well as forcast carbon savings

Delivering carbon reduction strategy – Identified Project & Opportunities

St Albans Girls School
Sustainability Projects within our payback Criteria (5 years)

Project	Investment	Savings £ PA	Payback Time (yrs)	Carbon Saving tCO2e	Financial Feasibility modelling / model	Risk Status	Active	Status
English Block Door Closure	£0	£1,134	0	4.90	Further investigation required	Low	Yes	
Compensated Boiler Control	£500	£1,583	0.32	6.90	Further investigation required	Low		
Energy Management	£5,000	£7,322	0.68	19.00	Further investigation required	Low		
Pipe Lagging Upgrade	£2,628	£2,628	1	3.70	Further investigation required	Low		
Tap Upgrade	£5,475	£4,299	1.27	7.20	Taps	Low		
Variable Speed Drive Upgrade	£2,100	£859	2.44	0.98	Further investigation required	Low		
Urinal Upgrade	£1,001	£225	4.45	0.04	Urinal	Low		
Solar (with Linear Savings)	£325,345	£67,192	4.7	0	St Albans Girls' School	Medium		
Totals	£342,049	£85,242		42.72				

Projects outside of the 5 year payback period

Project	Investment	Savings £ PA	Payback Time (yrs)	Carbon Saving tCO2e	Financial Feasibility modelling / model	Risk Status	Active	Status
Lighting Upgrade	£5,768	£936	6.16	0.91	LED	Low		
Hand Dryer Upgrade	£6,901	£854	80.08	0.83	Hand Dryer	Low		
Reduced Boiler Flow Temp	£4,000	£239	16.74	1	Further investigation required	Medium		
Toilet Upgrade	£48,929	£2,819	17.36	0.44	Toilet	Medium		
Totals	£65,598	£4,848		3.18				

The Adeyfield Academy
Sustainability Projects within our payback Criteria (5 years)

Project	Investment	Savings £ PA	Payback Time (yrs)	Carbon Saving tCO2e	Financial Feasibility modelling / model	Risk Status	Active	Status
Tap Upgrade	£3,407	£4,210	0.83	5.20	Taps	Low		
Energy Management	£5,000	£4,142	1.21	9.53	Further Investigation Required	Low		
Lighting Upgrade	£16,285	£6,587	2.74	6.37	Lighting	Low		
Urinal Upgrade	£3,888	£1,540	2.52	0.17	Urinals	Low		
Hand Dryer Upgrade	£2,815	£906	3.11	0.88	Hand-Dryer	Low		
Variable Speed Drive Control	£2,100	£476	4.41	0.54	Further Investigation Required	Low		
Solar (with Linear Savings)	£285,286	£56,035	4.6	0	Project Solar UK	Medium		
Totals	£318,781	£73,896		22.69				

Projects outside of our payback period

Project	Investment	Savings £ PA	Payback Time (yrs)	Carbon Saving tCO2e	Financial Feasibility modelling / model	Risk Status	Active	Status
Heat decarbonisation plan	£12,000	NA	NA	NA	This is required in order to apply for public funding to install improved heating system	Low		
Main Boiler Upgrade	£30,000	£3,321	9.03	13.41	Further Investigation Required	Medium		
Pipe Lagging Upgrade	£2,628	£270	9.73	1.09	Further Investigation Required	Low		
Toilet Upgrade	£18,821	£1,381	13.63	0.15		Medium		
Totals	£51,449	£4,972		14.65				

Beech Hyde Primary and Nursery School
Sustainability Projects within our payback Criteria (5 years)

Project	Investment	Savings £ PA	Payback Time (yrs)	Carbon Saving tCO2e	Financial Feasibility modelling / model	Risk Status	Active	Status
Energy Management	£500	£2,005	0.25	2.28	Further Investigation Required	Low		
Compensated Boiler Control	£500	£861	0.58	0.98	Further Investigation Required	Low		
Tap Upgrade	£3,184	£3,230	0.99	6.04	Taps	Low		
Hand Dryer Upgrade	£1,885	£486	3.88	0.55	Hand Dryers	Low		
Pipe Lagging Upgrade	£1,015	£253	4.01	0.29	Further Investigation Required	Low		
Solar (With Linear Savings)	£74,637	£13,982	4.4	0	Project Solar UK	Medium		
Totals	£81,721	£20,817		10.14				

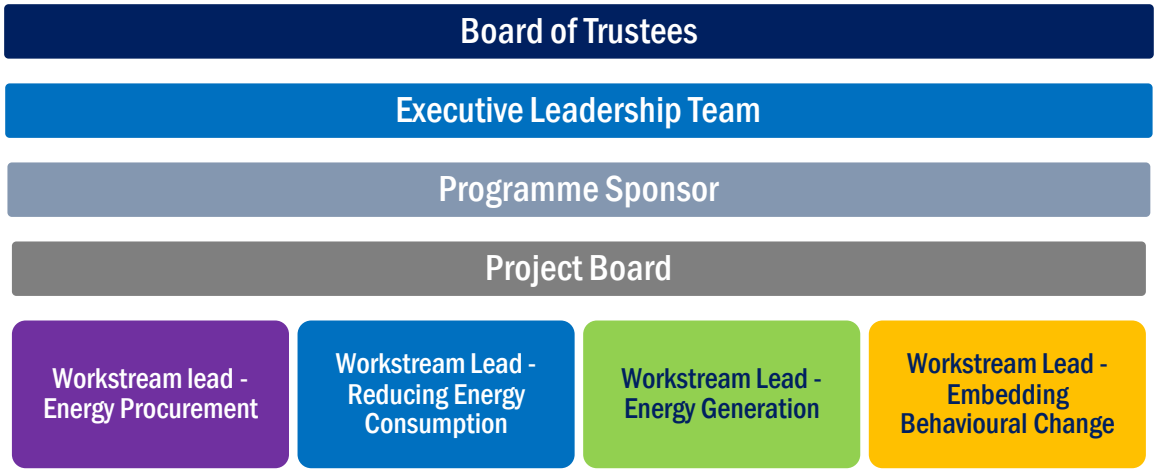
Projects outside of our payback period

Project	Investment	Savings £ PA	Payback Time (yrs)	Carbon Saving tCO2e	Financial Feasibility modelling / model	Risk Status	Active	Status
Lighting Upgrade	£2,292	£332	6.9	0.38	Lighting	Low		
Urinal Upgrade	£1,247	£147	8.48	0.03	Urinals	Low		
Toilet Upgrade	£23,497	£1,141	20.59	0.21	Toilet	Medium		
Totals	£27,036	£1,620		0.62				

Resources

To deliver the plan it is necessary to have a strong governance process in place that provides accountability, delegates responsibility and provides adequate resources and training to enable the plan to be successful. For our Trust the following measures have / will be implemented to enable this.

Governance structure



Roles and Responsibilities

The table below sets out the agreed roles and responsibilities as well as details of the teams and individuals who are accountable and/or responsible for delivering this plan

Role	Responsibilities
Board of Trustees	Providing strategic oversight of the project ensuring the project and programme reflects the aims of the Trust
Executive Leadership Team	Executive decision-making group taking overall responsibility for the project on behalf of the Trust
Programme Sponsor	Executive member of the team responsible for overall delivery of the decarbonisation programme and accountable to the Board of Trustees and Executive Team for success against the agreed outcomes.
Project Board	Responsible to the for day-to-day delivery of the project. The Project Board is managed by the Trust within the constraints provided by the Senior Leadership Team.
Workstream Leader	Part of the Project Board Team and leads on delivery of specific projects within each of the four workstreams
Project Team	Responsible to the Workstream Leader – Technical and Advisory Support roles including Strategy, Data, Design, Procurement, Technical Advisory, Cost Management and Legal advice.

Delivering carbon reduction strategy

In order to drive forward the organisation's decarbonisation plans the activity required is managed under four strategic workstreams.

This enables the creation of a team that has the right skills and capabilities to effect the changes required. The Terms of Reference for each Strategic Workstream is set out below.

Internal Training Needs

We have identified the following internal training needs to enable delivery of the plan:

Training Need & Rationale	Recipients(s)	Workstream Owner	Target timescale
Travel Plan Review	Support Services Students	POL	September 2023
Sustainability commitment	All staff and Students	POL Sustainability champions	June 2023
Recycling	Students Staff	Site Managers Sustainability Champions	April 2023

Technical Advisory Support

Based on the skills presently available within the Trust it has been determined that external technical and consultancy support is required to deliver the plan. The following areas of expertise are required to be outsourced. Where partners have been selected these are noted. In line with the governance structure, management of the supplier will fall to the person(s) noted.

Area of expertise	Selected Partner(s)	Workstream Owner	Actions
Energy Procurement / Broker	Expense Reduction Analysis	Stephen Letly	Quartile Reports to the COO Annual Review of Contracts Procurement lead for contract renewals
Technical Advisors – e.g. Sustainable Technology Specialists, Energy Auditor, Designers, Project Management	Save Money Cut Carbon Property Techtronic	Tim Higgs Ian Haywood	Annual Audit Lead As Required
Energy Data Management	Applied to become part of the Energy Sparks programme	POL	Follow up on application If unsuccessful follow up on the procurement of software and

			monitoring units undertaken in January 2023
Legal Advisor	Stone King	Various	As required
Accountancy / Finance Advisor	Moore Kingstone Smith	Various	As required
Installing Contractors	Various	Various	As required

Funding

The benefits of reducing carbon emissions, lowering energy bills and engaging with students and the wider community are clear however funding is often a barrier to implementation. This section sets out the funding options available to enable the delivery of the plan.

Green Recycling Fund – The long-term strategy

The reduction of the Trust carbon footprint is directly linked to the consumption of energy from the grid or renewable sources. This in turn has a day-to-day financial implication for the Trust in that it has to pay for energy consumed from its general annual grant.

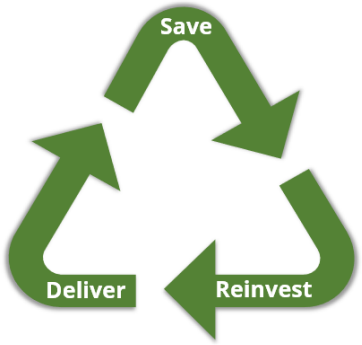
If the Trust can reduce its carbon footprint from the position it was in by 20% by 2030 then this could save 157 tCO_2e tonnes of carbon and also bring a financial benefit for the Trust by releasing £300,000 by 2025. This is measured against what the Trust could be expected to pay for energy in those years based on energy price forecasts.

Application to The Public Sector Low Carbon Skills Fund to commission a heat decarbonisation plan for STAGS and BH, the trust is looking to fund the same report directly for The Adeyfield Academy and there is a higher risk of total plan failure prior to this fund being available in 2023 and would subsequently miss the expected funding window for applications to the Public Sector Decarbonisation Scheme in September 2023.

Public Sector Decarbonisation Scheme application for The Adeyfield Academy potential project following its Heat Decarbonisation plan being received in the expected application window of September 2023. Following a successful application to the low carbon skills fund to produce Heat Decarbonisations Plans for STAGS and Beech Hyde applications would be ready to submit for the 2024 funding window.

Funding assessment

Following the identification of project opportunities and agreement of the energy transformation plan, an assessment has been made against each of the possible funding options. This includes advantages and disadvantages and any technical or regulatory limitations to enable the leadership team to make an informed decision on the most suitable option for each technology or project type.



This is set out below and forms the basis of the funding options for each of the available actions/projects set out in the decarbonisation plan/roadmap.

Funding options

Below is a summary of the main options available for funding energy efficiency projects.

Funding Option	Cash/Reserves	Salix Finance – public sector schemes	Power Purchase Agreement	Operating Lease
The Concept	By using cash, the organisation realises 100% of the savings generated by the energy efficiency project. With returns on investment of up to 400% this can provide an additional funding stream that can be reinvested in the estate	Government funding (grants and loans) to the public sector can be a good way to improve energy efficiency, reduce carbon emissions and lower energy bills. Salix is a non-departmental public body, owned wholly by Government.	A power purchase agreement, is a contract between two parties, one which generates electricity and one which is looking to purchase electricity.	An operating lease is a way of financing the acquisition of assets where the risk and reward of ownership remain substantially with the lessor. The lessor often includes other services such as maintenance of the asset.
Advantages	No finance costs means the organisation realises 100% of savings generated. Savings can be reinvested. Organisation can manage its own procurement and implementation programme. Can work well for smaller sites where it is harder to get finance options to work.	Interest-free loans mean the organisation realises 100% of savings generated. Grant funding has been given in the past (i.e. PSDS) which provides excellent returns for organisations.	A recognised and compliant route. Guarantees energy price for fixed period. Low risk solution provided it is set up correctly.	Wide availability of finance enables organisations to start immediately. 100% funding means little/no capital investment required. Savings can be reinvested. Organisation can manage its own procurement and implementation programme.
Disadvantages	Requires school or Trust to have capital available.	Funding only available through application process. Limited funding available. Match-funding required for loans. Administrative burden of application, reporting etc	Rates of return are less than other options. Unlikely to generate a surplus for reinvesting. Legal complexity and due diligence requires specialist input. May require Secretary of State approval pending new DfE guidance	Finance costs reduce the returns generated. Legal complexity and due diligence requires specialist input. Does not work for all low-carbon technologies. May require Secretary of State approval pending new DfE guidance.

Summary	A viable and flexible option if you have strong financial standing and well-developed estate strategy & budget.	A possible option if you can access the funding but delays in securing funding could outweigh costs of other options.	A viable option for risk-averse organisations who simply want to buy energy at a firm but discounted price for a period such as 20 years but returns are low	A viable option for most organisations, especially for Solar PV and LED lighting. Likely to generate surplus and enables organisations to start as soon as they are ready

Next steps / Roadmap

Summary

XXX

Completed works

XXX

Upcoming works

XXX

Key risk and issues

XXX

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Appendix A : Decarbonisation Roadmap

1. EDUCATE. Educate the school community about decarbonisation. ...
2. ANALYSE. Energy bills are a variable cost. ...
3. RESEARCH. Research decarbonisation systems. ...
4. ADVOCATE. ...
5. INVESTIGATE. ...
6. COMMUNICATE.

Appendix B: Energy Consumption Data – Baseline vs Progress to Date

Appendix C : Energy Audit Summary

Progress & Partnership

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