

Background and details of the Energy Efficiency and Sustainability Education Offering:

Hopes Sustainability aims to work with schools and local councils to develop a vast cohort of climate-aware Climate Stewards who, through exposure over time to the vast range of innovative solutions being implemented by the business community and other organisations that address and implement positive climate actions and programmes, they will be inspired to consider and understand how they can contribute to Carbon Zero goals as they move through their schooling and consider the range of green careers available to them when they leave school.

“This is about what we as school leaders and teachers can do to embed a philosophy across the school that we are always thinking about climate change and how we can all take positive actions. It’s something that needs to be part of every single day, so that it becomes part of our school values.”

Daniel Bishop, Head Teacher, Chase Bridge Primary School

Bromley Pilot Project:

Hopes have been working on a pilot project with a number of schools in Bromley during 2022. The key insight from that pilot is that **over 35% of electricity consumption** in those schools has occurred out of hours, overnight, on weekends and during the holidays. They are currently working with those school leaderships to improve their processes and have projected **potential annual savings in energy consumption of over 20% of current bills** in the first year, with further savings to follow as the project implementation gathers pace.

Bromley Schools project - projected savings
Electricity analysis

			Rate 30p/kWh	Rate 50p/kWh		Rate 30p/kWh	Rate 50p/kWh
	Potential saving kWh	Expected saving 50% (kWh)	Potential saving £	Potential saving £	Expected saving 67% (kWh)	Potential saving £	Potential saving £
School 1 - 2 form entry	36,165	18,082	£5,425	£9,041	24,110	£7,233	£12,055
School 2 - 2 form entry	83,483	41,741	£12,522	£20,871	55,655	£16,697	£27,828
School 3 - 2 form entry	42,348	21,174	£6,352	£10,587	28,232	£8,470	£14,116
Special school - all through	112,783	56,392	£16,917	£28,196	75,189	£22,557	£37,594
School 5 - small school (75 pupils)	10,658	5,329	£1,599	£2,664	7,105	£2,132	£3,553

“Bromley Council are very excited by this project as it represents a first in London. It is an innovative programme which includes unique data visibility and bespoke high-level Net Zero pathways for each school. This will inform the much needed and highly competitive funding for retrofit applications. The inclusion of lesson plans based around the captured data, means the children will be brought along their school’s journey to Net Zero, making for a holistic educational approach. The feedback surveys will also allow the Council to measure the wider social impact that the scheme is having. This novel programme is already bearing fruit and we are excited to be sharing the results once the pilot has completed.”

George Brown, Environmental Officer, London Borough of Bromley

“The combination of having technology as well as the staff involved is so important in terms of building that culture within the school. We can promote and encourage them in different ways so that they start to feed into that culture within the school and understand the importance of what the school is trying to achieve by saving energy.”

“The school intends to re-invest all savings generated from the energy efficiency project into teaching the kids about sustainability. We intend to both support and promote environmental sustainability, through a clear and concise whole school environmental policy. The innovative approach and support of Hopes Sustainability excites us, as our journey gathers momentum. In particular, we are as one with regard to embedding the concept of sustainability into our curriculum, enthused by their vision and the practical support and encouragement Hopes provides.” *Mike Parker, the Deputy Chair of Governors at Poverest Primary School, Bromley*

The project components:

- Installation of sensors to provide visibility of electricity consumption by distribution boards
- Monitoring of gas consumption IF there is access to an electrical power point in near proximity to the gas meter location
- Real-time consumption information via the online platform across the whole school and all significant devices
- Ongoing Project management to support the identification and implementation of energy wastage reduction opportunities, including
 - Analysis of data
 - Recommendations re technology and process improvements
 - Recommendations re behaviour improvements
 - Mechanism to monitor ongoing compliance with SLT-mandated behaviour and process improvements
- 12 months access to a suite of energy efficiency and climate education learning resources including
 - Teacher and pupil engagement – timetabling, integration into normal curriculum, access to wide range of energy and other sustainability innovations and solutions, linked to elements of the National Curriculum lesson topics
 - Parental engagement opportunities
 - Sustainability Education resources from the Climate Education College:
 - School leadership training
 - Teacher and support staff training
 - Schemes of Work and Lesson Plans

The Climate Education College is the streaming home for high-quality professional development in climate education. We provide everything you need to strengthen, manage and evidence your climate education teaching professional development in one place, on one platform. We include the Climate Education/Sustainability Change Agents All School Staff Diagnostic Survey so that your leadership team can easily draft the School Climate Action Plan. With more than 200 Teacher, Non-Teacher, School Governor, PTA and Parents Climate Education Committee Training Courses (all CPD Certified!), we have covered all the bases to ensure the delivery of confident and highly competent climate allies, ensuring that all learning integrates climate literacy as a golden thread throughout your curriculum, with the resulting raising of attainment and future life prospects of your pupils.

A key element for the delivery of this plan involves the engagement of your local community, of which you are a key part. We believe that this project will inspire your children to learn from an early age why a deep understanding of sustainability is crucial for their future lives and careers, provide insights into the vast range of exciting green career options that are being created and empower them to take action to contribute to personal, national and global climate and sustainability goals.

Access to Green Innovations and Solutions from local and national businesses

As part of the project engagement, your teachers will have opportunities to link lessons with the wide range of green innovations and solutions being undertaken by the business community. The full project will help your school

- a. Identify future energy efficiency and other green roles and highlight the skills needed to fulfil those roles
- b. Showcase stories and case studies of companies' decarbonisation journeys and the roles being undertaken by current employees
- c. Provide real-life examples of employees who are undertaking "green" roles
- d. Connect schools and companies to help pupils make effective career choices through regular **Green Skills Jobs Fairs**
- e. Help KS2 and 3 pupils assess a wide range of potential green career options and what subject options for GCSE and A levels will be needed to enable them to fulfil those choices
- f. Create direct connections between KS4 and 5 pupils with companies, universities and FE colleges to map future pathways and actively support green recruitment opportunities

Next Steps:

Contact us on ivortucker@hopes-sustain.org to arrange for an outline quotation and further information about how your school can implement this offering when your school reopens at the beginning of the Spring Term of 2023.

As soon as you register your interest to take advantage of this offering, you will begin your journey to lower energy bills while simultaneously engage and inspire your pupils to start their transformation into the next generation of Climate Stewards.