



Learning to shape the future

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Chester Community Energy Sustainability Competition Upton by Chester High School entry

Team name: **The Light Savers** Year 9

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Upton High School consists of a number of buildings and link corridors. The building has grown in size and been altered over 50 years. Alterations to the buildings have occurred in parts, although no major upgrade or refit has taken place.

As members of the Eco School Action Team, we approached our Premises Manager, Mr Jones who provided data on the monthly energy usage from the previous three years. He was able to give us data on our Gas, Oil and Electricity usage. He also explained the significance of reducing any energy consumption in light of the rising energy costs.

After a site survey with Mr Jones looking at potential ideas we identified existing lighting within areas of the school that still have in areas outdated in efficient lighting such as florescent or halogen lamps. The building is well used and the area we identified is where existing lighting is outdated, it would also generate sufficient savings in electricity to make the work of organising and installing the new lighting worthwhile.

Our aim: To continue to replace inefficient lighting in areas within school and replace with LED lighting.

Education is the beginning of the future; it is the development of a new generation, the revelation and discovery, where the lights switch on, the right lights switch on.

We believe that what we do should make a positive, practical impact, we have a responsibility not to be passive in our learning, and we want to be active in 'Shaping the Future' and creating a culture of care for our planet. Small changes can bring about a bigger difference. Energy saving, environmental and efficient changes make a huge transformation.

We have identified an area, seen a problem and we believe the initial solution should be to install motion sensory LEDs. Removing fluorescent tubing to lights with a conscience. As seen through the yearly energy usage statistics, our electricity usage has started to decrease, but we can still do more!

From 552,472 in 2019-2020, to 432,377 in 2020-2021, to 315,024 in 2021-2022 amidst a global pandemic, our school is already decreasing its yearly electric consumption, we are moving towards a more sustainable way of life. Light is a gift. It is the absence of darkness, the metaphorical idea, it brings to light the joys of learning, and it encourages intellect and awareness.

With your help, we can develop students' educational experience, enhance their thirst for knowledge, and feed their curiosity. It is a chance for Upton-by-Chester High School to develop a step further in our energy efficient power journey, a chance to decrease our yearly energy consumption. Your investment

would be an incredible opportunity for growth in sustainability, it would make a larger indent into solving the school's environmental concerns and make it easier to teach for many teachers and learn for many learners.

B9 classroom is the problem. A maths classroom that does not see the light of day, no, literally.

We have already conquered many of the previously dismal spaces, the World Café for example. Communal areas where learners take a break from lessons and create community are essential to learning. Now that they have been fitted out with new LED lights, it is not just a hub for community it is a part of Upton-by-Chester High School's energy efficient journey.

We want this **classroom B9** to go from outdated, inefficient lighting to LED using 90% less energy and equivalent if not increased levels of brightness.

We have hope that this venture could brighten four to five hours of learners' days each week, but this is only possible with your investment

