GREENEST CHALLENGE

What environmental topics are you most passionate about?

I'm most passionate about reducing my carbon footprint. I'm also very passionate about reducing the harmful environmental impact of individuals, since change starts with us.

What are you good at?

I'm good at writing and communicating in order to get my points across. I can also communicate ideas through art, such as drawing and 3D modeling.

What do you love doing?

I love seeing the effect that my actions have on the environment and influencing everyone around me to adopt more sustainable lifestyles.

Environmental Focus: Optimizing School Energy Usage

Schools often waste copious amounts of energy on activities that can be maximized to optimize energy to the fullest. Several neglectful practices include not utilizing roof space and inconsistent heating/cooling systems.
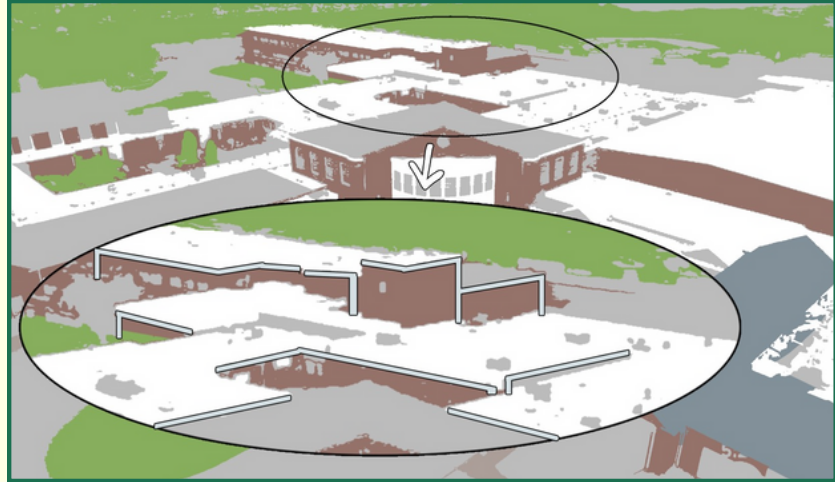
What can we do to improve?

The best options would be to turn the school roof into something that can harness energy and then distribute such energy in an even manner around school. In order to carry out the latter half, HVAC and lighting systems need to be energy efficient.

Who to call?

1 Building Groundskeeper

2 School Administration

3 Local Solar Companies

Recommendations

1 Gather opinions of school admin

2 Consult companies

3 Advocate for your cause

Examples

Westbury Schools: installation of solar panels on car ports (energy savings of at least $395,000 annually)

Hicksville Garage: installed solar lighting systems on top of the parking garage (10,883-pound carbon offset, equivalent of 6 acres of forest absorbing carbon dioxide!)
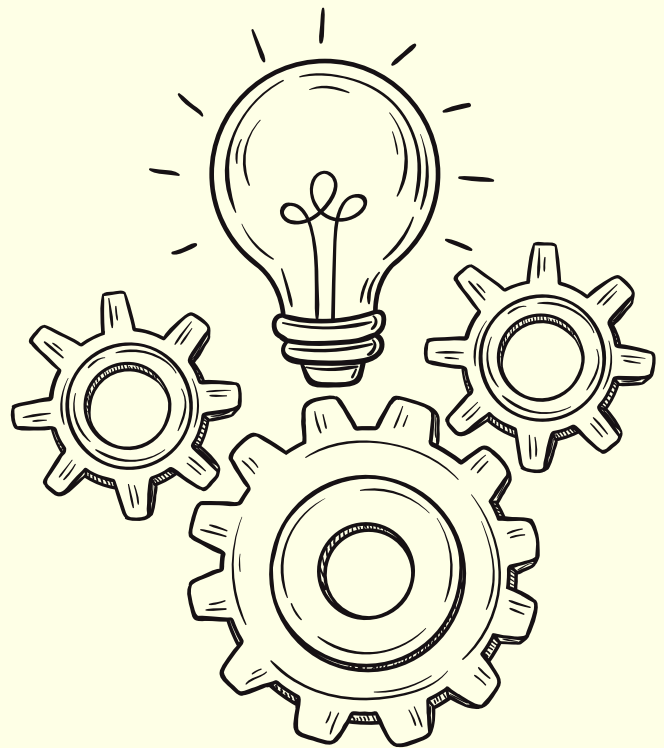

Skill Sets

1 **Evocative Writing**

2 **Representation through art**

3 **3D modeling**

Proposal

The problem with our school is that many operations are wasting energy and being unsustainable. Heating and cooling often fluctuate and the roofs are underutilized. As environmentally minded youths that spend half of our day in a school setting 5 days a week, we demanded there be steps taken in order to create a greener school environment. In order to initiate our school smart system, the appropriate equipment is needed.

- Occupancy sensors: installed in classrooms to automatically turn off lights when people leave the room

- Machine-learning (smart lighting): Many automatic sensors give access to predicting energy consumption patterns by storing large amounts of data. The use of machine learning devices analyzes energy efficiency and creates an alogrithm for light systems

- Solar panels: A hybrid solar panel system will be placed on the school's roof to generate enough electricity and also store excess energy. That way, the school doesn't have to invest hundreds of thousands of dollars into a full solar plan.

INSTA POST

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pathto2030

pathto2030 As environmentally conscious youths, almost everyday we need to address the many problems that go on in the operations of our school. We feel that we need to minimize our energy and search for ways to become more sustainable. Here's our way for making schools greener. @turninggreenorg #pgc2023

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