

Quali-Breeze Initiative for the monitoring, managing and improving Air Quality in Ghana.

Project Name: School Air Monitoring Installation

Installing Air Monitors in Schools in the communities

We are experiencing significant environmental challenges due to significant open burning, indiscriminate waste disposal, dust from untarred road and emission from vehicular activities in our communities.

These pollutants contribute to foul odour, respiratory diseases and discomfort and as well global climate change. Our recent research work (link) highlighted the high increase of complaints of respiratory related diseases, waste burning, low social awareness and unavailability of monitors as only one functional monitor was available in Kasoa, a thriving community of about 300,000 people. There was a case of theft of a monitor installed along the new market road.

Why Air Monitors in Schools?

This project is to help achieve three important factors of improving the air quality in communities, to introduce and educate the school children about the importance and functions of air monitors where they can drive the message home to their respective parents, guardians, and friends about air pollution.

Also as a result of the unfortunate incident of device theft, we want the monitors to be in a safe environment where it can be monitored, properly managed, and protected from theft.

These monitors are installed in Schools in the communities, as this would give the community access to the data, where they can get it real-time on their mobile phones to further elicit conversation, push for policy change, and be in the fight for the protection of their environment from air pollution. With this we are able to create social awareness, educate the communities and give them the data to enable them take the right decision for the protection of their health and well-being.

We have limited Air quality Monitors and the ability to measuring air quality is our first step to creating a solution of change, attitude and properly manage and reducing air pollution in our communities.

The purpose of this project includes,

- Getting up to date information about the air quality and guide users to cleaner air routes.
- Offer real time tips on protection based on air quality.
- Provide important data to influence policy makers, and decision making
- Ability to simplify the data to make meaning.
- Make air pollution visible to the people to take actions for clean, healthy, and sustainable communities.
- Join the global database of air monitoring.

Solution

Our solution is to fix air quality monitors/sensors to strategic locations in Ghana especially schools.

We want to build a comprehensive inventory of emission sources in Ghana, track the data and put it in the hands of the people of the community in a simplified way to take actions for a clean air, healthy environment and sustainable future for all. Most importantly, putting in control measures and strategy to reduce emission.

It is our target to install 100 Air monitors in 100 schools in Ghana by 2026 for 100 neighborhoods to impact 100,000 people to monitor their air quality and drive for change for a clean air.

How do we want to achieve our purpose?

- Seek partnership with Air Monitors manufacturer.
- Seek grant and support.
- Get corporate organization to adopt a school to demonstrate their sustainability commitment to the environment.

Our Task progression of the Project

1. Install Air quality monitors in schools.
2. Carry out training to selected students and the school management on accessing and interpreting the data from the monitors and the importance of maintaining good air quality.
3. Adopt an air quality ambassador from every school who is going to champion the cause of improved air quality in the school and lead the success of the project in the school and the community.
4. Quarterly review and maintenance of devices in all schools.
5. Make the data available and accessible to residence of the community, researchers, and government agencies, and public for decision making.
6. Utilize the data available to see the areas which are continuously critical and look into the root cause for collaborative possible solutions to reduce pollution.

To ensure the sustainability of the project, Quali-Breeze shall own the devices, to ensure proper management, maintenance, and servicing of the devices to ensure its operational efficiency.

What this project tends to achieve

- Create social awareness and education
- Increase monitoring by Providing Air Quality monitors and data.
- Get the community involved in driving for a cleaner air for their environment.
- Protect the vulnerable group like children, pregnant women, elderly people, and asthmatic patient.
- Reduce air pollution and create a healthier environment.