Multiple Chemical Generator

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With the world population increasing by 60 million every year, the search for clean water becomes a growing concern especially in Less Economically Developed Countries (LEDCs). Waste of animals, humans, industrial effluents and agricultural chemicals are but a few of the pollutants in water that create water- borne diseases. The fact that nearly 17 million (43%) of the Kenyan population have no access to clean water is a great issue of concern which cries for an immediate solution. Motor vehicle emissions are the largest contributors of air pollution which can damage the environment and cause health problems. When a fuel is burned in an internal combustion, toxic chemicals such as nitrogen oxides, carbon monoxides and hydrocarbons are released. Research has shown that CO2 in motor vehicle exhaust is responsible for the most poisoning deaths in the US. According to the data collected in Kisumu East district hospital, the number of people infected with various water- borne diseases is over 1,600. From this information we observed that if we implement this project then we can reduce the number of people infected with water- borne diseases. We also observed that Kisumu being the 3rd largest city in Kenya is heavily industrialized due to the products of car exhaust and industrial wastes hence it has a high level of pollution when compared to that of Kakamega. We therefore conclude that our project, the Multiple Chemical Generator, can be used to reduce pollutants not only in air but also in water as well as in domestic uses in a cost effective way.

Awards Won: