

## IF I COULD INVENT SOMETHING NEW

My name is **Somtochuckwu Praise Gershom**, I am a **year 8** student of **Trinitate Staff School, Portharcourt**. I am an aspiring biomedical engineer; a professional who specializes in solving life's problems using engineering techniques and inventions

Currently our world is facing a serious ecological crises addressed by the SDGs (sustainable developmental goals) which include; good health and well-being (SDG 3) sustainable cities and communities (SDG 11), climate action (SDG 13) and fourteen others. These crises are a serious menace to the entire earth as the amount of harmful gases released into the atmosphere through exhaust fumes of mammoth crowd of poorly maintained cars, gases from gas flaring as well as construction machines and factory chimneys have depleted the ozone layer by more than 4% over the last few decades (<https://en.wikipedia.org>) with greater impact in our global temperature. These gases have an enormous toll on global respiratory problems witnessed over the last few years. With the rising number of industries, cars in our streets and construction machines in our paradise; earth, it is obvious that the earth is approaching its tipping point as these greenhouse gasses keep increasing and building the global temperature, it is also crystal clear that the number of respiratory cases is on the rise therefore, containing these gases is an enigma in my mind and I am poised towards its solution

As an aspiring biomedical engineer, if I could invent something new, it would be an '**Air pollutant liquefier (APL)**'. The APL would be a device that can be installed on the chimneys, exhaust pipes of cars, factory generators and machines that have the capacity to emit gaseous pollutants. It would work by converting harmful gases into water, oxygen and harmless gases that can be released back into the atmosphere. The APL can collect the fumes from factory chimneys, exhaust pipes of cars and construction machines as well as generators. It filters, converts and purifies the fumes to oxygen or non-harmful gases and water which is released into the atmosphere hence slowing down the negative impact of these gases on climate change. The unconverted harmful gases are taken to a chamber to be condensed and liquefied to water. When the APL is magnified, it will have the capacity to liquefy large volume of gases to water which can flow through a series of purification processes and can be dispensed to homes as a form of clean water. The device may be the game changer in the war on global warming and climate change since it can minimize the amount of greenhouse gases released into the air and keep the air safe and healthy.

It has become necessary to look beyond people's habits as each day the global economic conditions is producing more 'insane normal' people whose actions keep depriving us of sustainable cities unconsciously. One way to help will be to get a good education that will enable me refine my knowledge and understanding of chemistry and engineering techniques. The APL will be invented.