

## Problem Statement :

Gas detector can sound an alarm to operators in the area where the leak is occurring, giving them the opportunity to leave. This type of device is important **because there are many gases that can be harmful to organic life, such as humans or animals**

## Solutions:

We can use sensors that are used to detect essence of propane, iso-butane, LPG and even smoke. These sensor has an advantage to combine a sensitivity response time.

The system will detect the presence of excess amounts of harmful gases in environment then this system will notify the use



We can provide the information such as when a gas leakage is noticed, sensors in the project are used to notice the gas leakage and immediately turns ON the buzzer for the danger indication. Buzzer is a clear indication of gas leakage

We can also send messages SMS to mobile number specifically mentioned in the program of the source code for alerting danger to the people.

What does the problem affect?

Common People with sensitive lungs, People with genetic disorder, Asthama patients and it can affect any living thing that consumes air.

What is the issue?

While exposure to low levels of natural gas is not harmful, long-term exposure can affect your health. Burning natural gas produces nitrogen oxide, carbon monoxide, and methane. These chemicals can trigger respiratory problems, depression, and decrease the quality of your health.

Where does the issue occur?

Gas leaks happen when a gas line or a gas-burning appliance springs a leak. Natural gas flowing seeps out of the leak into open areas. Gas leaks are dangerous because natural gas is composed primarily of methane. Methane is an asphyxiant that pushes oxygen out of enclosed spaces as it rushes to fill those spaces.

Where is the issue coming from?

Gas leaks can occur in many places in the home. The most common areas are where pipes join together at the fittings, such as flex lines, tees, regulators and valves. These should be checked regularly.

Why is it important that we fix the problem?

Because if we don't there's high chance we will die due to the above mentioned reasons