

ABSTRACT

Energy wastage is one of the most serious problems at present. LPG is the commonly used source of the energy for cooking in urban areas. In present LPG system there are several disadvantages like most of the energy wasted when flame is greater than the vessel diameter, leakage of gas is one problems with current LPG cooking system, we don't have a option to set the ON period of the stove so that we can do other works during cooking process, overflow of food from vessel is unavoidable and we are least known about remaining gas in the cylinder. One of the major challenges at the present moment is the improvement of the current cooking system in urban areas where LPG is main source of cooking and to install LPG stoves in rural areas where LPG is less known.

In proposed system we make use of small 5 kg LPG cylinder which can be easily portable and develop a cost effective Smart LPG Stove which is suitable for this economic world. This system can also be implemented to present 14 kg LPG cylinders. The system proposed consists of five major modules namely, automatic adjustment of flame size in accordance with vessel diameter, automatic turn OFF of system when given time has elapsed, automatic turn OFF of system when gas leakage is detected, gas level indicator module and overflow of food from the vessel is detected and wastage of food and LPG avoided.