

Testing Facilities at Renewable Energy Department

(Office Tel: 0112233152, email red@nerdc.lk)

- 1) Refrigerator Testing Facility: This is the only facility in Sri Lanka to determine energy performance of refrigerators in accordance with SLSI 1230..2003



Refrigerator Testing Laboratory

- 2) Analysis of biogas / producer gas

Biogas mainly consists with Methane(CH_4) and Carbon Dioxide(CO_2). Methane is combustible and responsible for energy content of biogas. Therefore Methane percentage of biogas is very important. We have a facility to analyze biogas for CH_4 , CO_2 , N_2 and O_2 .



Producer gas is derived from partial combustion of firewood. This gas contains several small molecular alkanes along with hydrogen. The gas chromatography can be used to analyze Producer gas for H_2 , CO_2 , CH_4 and C_2H_6

- 2) Calorific value(MJ/ kg)

Bomb calorimeter can be used to find Calorific value (energy content) of liquid & solid fuels.

- 3) Important parameters such as Moisture content of wood, Relative humidity, Wind velocity and Carbon monoxide can also be measured at our laboratories