

Chemistry

Energy = Mass of Water X SHC X Temperature rise

$$\text{Energy/g} = \frac{\text{energy released}}{\text{Mass of Fuel}}$$

Increase in the world's population
India/China have become more industrialised
This means there is an increase in demand

The anhydrous copper sulphate went from white to blue proving that water was present. The limewater went from colourless to cloudy proving carbon dioxide was present. The products of combustion are carbon dioxide and water

propane + oxygen $\longrightarrow$ carbon dioxide + water

Complete and incomplete combustion
BLUE flame = complete
Yellow flame = incomplete (carbon forms soot)

products are always carbon dioxide and water for complete combustion

incomplete combustion:

Butane + Oxygen $\longrightarrow$ Carbon + Water

Advantages of complete combustion

- less soot made
- more heat released poisonous carbon monoxide not produced

Plentiful supply of oxygen means there will be a complete combustion

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Page 1 of 1