

## Energy Level Diagram

The combustion of hydrogen in a jar of oxygen produces water only.

- (a) State the types and number of bonds formed and broken during the course of the reaction.
- (b) Draw an energy level diagram to show the enthalpy change of the reaction.

## Suggested Answer

(a) Four O–H bonds form.

Two H–H bonds and one O=O bond are broken.

(b)

