

Gateway Science Physics A
J249/02 Physics A P5-P8 and P9 (Foundation Tier)

Question Set 19

19

Many power stations burn fuels to generate electricity.

Fuels can be renewable or non-renewable.

(a) Wood is used in some power stations.

Why is wood called a renewable fuel?

It can be replenished (Grown/planted again)

[1]

(b) A student has completed her homework on fuels used in power stations.

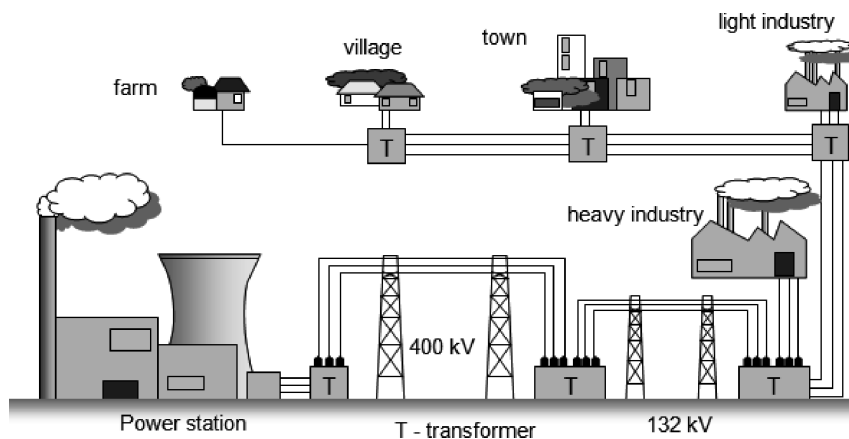
Look at her table below.

Fuel	Type
Wood	renewable
Plant and vegetable oils	renewable
Peat	non-renewable
Coal	renewable ✗
North Sea gas	non-renewable
Uranium	renewable ✗

She has made **two** mistakes, identify these in the table by putting a cross (x) next to them.

[2]

(c) Power stations produce electrical energy and use the National Grid to send the energy to factories and homes in the UK.



A step-up transformer is used in the National Grid.

State what a step-up transformer does.

It increases the voltage and decreases the current

[1]

