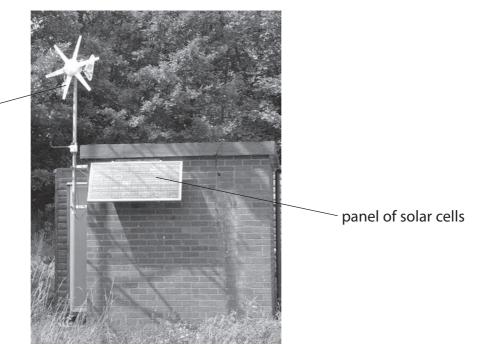
wind turbine

12 The photograph shows equipment used for generating electricity from renewable sources.



(a) Complete the sentences using words from the box.

	chemical	heat	kinetic	light	sound	
(i)	The panel of solar of into electrical energians			en	iergy (1	1)
(ii)	The wind turbine t electrical energy.	ransforms		energy	into (1	1)

- (b) On a windy day, the wind turbine transfers 78 W of power.
  - (i) State the equation linking power, energy transferred and time.

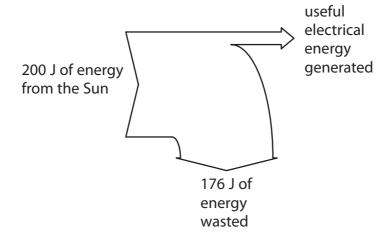
(1)

(ii) Calculate the amount of energy the turbine transfers in 10 s.

(3)

Energy transferred = ...... J

(c) The Sankey diagram shows the energy transferred by the panel of solar cells.



Show that the efficiency of the panel of solar cells is 12%.

(2)

(Total for Question 12 = 8 marks)

