

- 3 Kori Nuclear Power Plant in South Korea is one of the world's largest nuclear fission power stations.



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- (a) The reactors at Kori use nuclear fission to generate electricity.

The products released during nuclear fission have high energy in their kinetic store.

Give a product of nuclear fission.

(1)

- (b) Give two disadvantages of using nuclear fission to generate electricity.

(2)

1 .....

.....

2 .....

.....



(c) Kori has a maximum power output of  $7.49 \times 10^9 \text{ W}$ .

(i) State what is meant by the term **power**.

(1)

(ii) Calculate the minimum time taken for Kori to transfer  $6.47 \times 10^{14} \text{ J}$  of energy.

(3)

minimum time = ..... s

**(Total for Question 3 = 7 marks)**

