

Question 27 (4 marks)

There are two areas in which energy savings can be made by the use of superconductors. These are:

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- electricity generation and transmission;
- transportation.

Discuss how energy savings can be achieved in each of these two areas.

• because of the low resistance more of the energy produced is used. this means that those huge amounts of electricity lost during generation can now be used. transportation also uses a lot of energy. but if superconductors are used in wires then energy can be saved as there is almost no resistance.