Marks

Question 27 (4 marks)

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

4
These are:

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

- · electricity generation and transmission;
- transportation.

Advancements in technology are already present as in Japan with their monorail that howers of the track due to the superconductione nature of the magnets they use.

They are cooled via liquid vitrogen, which is very expensive.

Electrical generation & transmission would greatly improve, as the superconductors are kept very cold in order to aperete sufficiently, thus creating little to no heat.