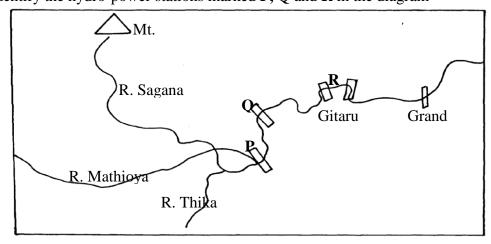
19. ENERGY

This topic entails:

- (i) Definition of energy
- (ii) Discussion of sources and types of energy.
- (iii) Discussion of the development of electric power projects in Kenya and Uganda.
- (iv) Identifying and locating other power projects in Africa
- (v) Explaining the significance of energy
- (vi) Explaining the impact of the energy crisis in the world.
- (vii) Discussing ways and means of managing and conserving energy.
- (viii) Identifying sources and uses of energy within the local environment.
- 1. (a) Name **two** oil producing countries in the middle East
 - (b) Give **three** contributions of oil to the economies of Middle East countries
- 2. (a) What is a multi-purpose project?
 - (b) Name two multi-purpose projects in Africa
- 3. (a) (i) Name **five** renewable sources of energy
 - (ii) State **three** disadvantages and three advantages of wind as source of energy
 - (b) (i) What is geothermal power?
 - (ii) Name **two** areas in Kenya which have a potential for producing geothermal power
 - (d) Explain **three** measures taken by the Kenyan government to conserve energy
- 4. a) i) What is energy crisis
 - ii) State **four** causes of energy crisis
 - b) i) Name three non- renewable sources of energy
 - ii) Apart from seven forks Dam project name two other hydro electric plants in Kenya
 - iii) Explain **four** factors that favoured the establishment of seven forks dam project
 - c) State **two** effects of energy use on environment
- 5. (a) Give **three** advantages of suing solar energy
 - (b) Identify the hydro-power stations marked **P**, **Q** and **R** in the diagram



- (c)Explain any **five** ways in which energy contributes to the growth of the economy
- (d) (i) Explain any **three** problems associated with energy crisis
 - (ii) Suggest any three ways to minimize energy wastage
- 6. (a) Define the term renewable sources of energy.
 - (b) (i) Explain **four** physical factors influencing the generation of hydro-electric power.

- (ii) Outline **three** limitations in the production of geothermal power in Kenya.
- (c) (i) Explain any **four** negative effects of the energy crisis in the world.
 - (ii) State **four** possible methods that the government of Kenya can use to conserve energy.
- 7. (a) Explain the impact of the oil crisis to Kenya
 - (b) What measures has the Kenyan government carried out to conserve energy
- 8. a) What is energy crisis?
 - b) State three environmental impact of energy crisis in Kenya
- 9. (a) Name **two** sources of thermal electricity
 - (b) Explain **four** benefits Kenya would get by striking oil in Isiolo
 - (c) Explain three measures taken by the Kenya government to manage and conserve energy
 - (d) Form **four** students of Nyabisawa Girls carried out a field study at Olkaria Geothermal pour stations
- 10. (i) State **three** preparation they made prior to the study
 - (ii) State three methods of data collection they could have used
 - (iii) State three uses of Geothermal energy they learnt
- 11. (a) (i) Name **two** non-renewable sources of energy
 - (ii) Explain **four** physical factors that influence the location of hydroelectric power station
 - (b) (i) What is energy crisis?
 - (ii) State **three** causes of energy crisis
 - (iii) Explain two effects of energy crisis
- 12. (a) List **two** renewable fossil fuels
 - (b) Identify any **three** functions of hydro power reservoir other than power generation
 - (c) State **three** reasons why Kenya spent so little on importing maize during the year 2002
 - (d) (i) Name **two** provinces in Kenya where maize is grown on large scale
 - (ii) State any two uses of maize
- 13. (a) Name the dams marked **E**, **F** and **G**
 - (b) Differentiate between renewable and non-renewable sources of energy.
 - (c)Explain three factors that influenced the location of Owen falls dam in Uganda
 - (d) Explain **four** problems that hinder development of Hydro-electric power projects in Africa