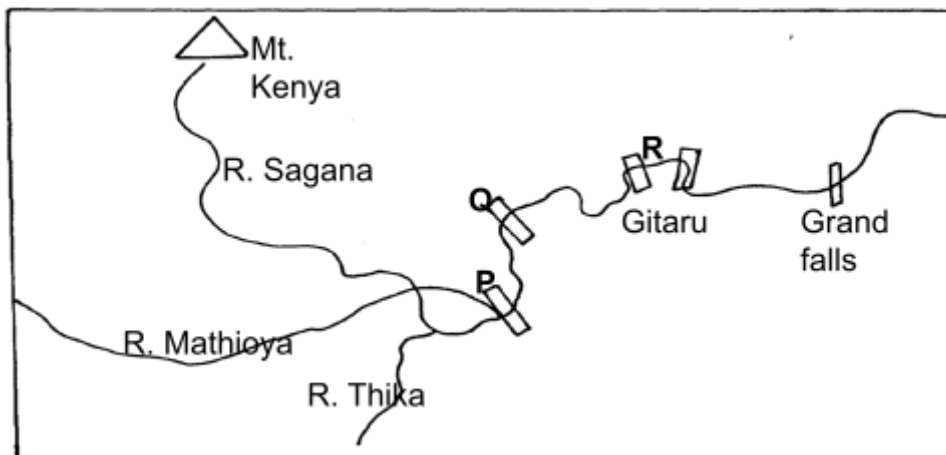


19. ENERGY

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 using 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