

Assignment Pakistan Affair

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Question:-

Discuss the significance of renewable energy resources.

Answer

1) Introduction

Pakistan is included in which countries where renewable energy resources find abundantly. Since 2013, the country ^{has been} is trying to reduce its dependency on non renewable energy sources and increasing its dependency on renewable energy sources. China Pakistan Economic Corridor is a major projects which is helping the country to enhance the capacity of renewable energy sources. Wind, Solar, hydro and biomass are major renewable energy resources in the country. Currently, in Pakistan solar energy has been prevailed in many areas of the country, especially the rural areas of it. However, the country produces the cheapest electricity. Besides, renewable energy

2

Sources are helping to control air pollution and to increase exports of the country.

(2) Renewable energy resources in Pakistan

Pakistan has potential in terms of renewable energy resources such as solar, hydro, biomass and wind. These resources are finding in its abundantly. Solar is mostly being used in the country, especially in rural areas. Now a days, solar is using in factory and industries. Moreover, due to wind and biomass energy, air pollution is decreasing.

(3) Renewable energy Projects in the country

China and Pakistan's friendship is very crucial in terms renewable energy projects. Through "CPEC", many renewable energy projects have launched in Pakistan. Some projects ~~and~~ are have completed and other are operational. Those projects are Suki Kinari projects on Jehlum river, Kohala projects on

3

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Neelum river, Peer Mahal project. Besides, Karot hydro power has been completed, recently. Qaid-Azam solar projects has also ^{been} completed.

(4) Significance of renewable energy resources for Pakistan

(i) Reduce energy dependency on non renewable energy resources

Non-renewable energy resources in which include coal ^{and} gas, fossil fuels. These are very harmful for Pakistan in terms of air pollution and these are also very costly. Pakistan imports oil to the neighbour countries like Iran, Saudi Arabia. Owing to renewable energy resources, Pakistan imports of oil has decreased.

(ii) Solve environment problem

Renewable energy resources are environment friendly. Solar, wind, hydro and biomass do not produce air pollution which are beneficial for the country. According to German

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watch group, in 2022, Pakistan produced only 0.5 air pollution. There are occurred due to excessive uses of renewable energy resources.

(iii) Increase economic opportunities

Renewable energy sources help the country to boost its economy. The country can export its products to the others country which can help to boost economy. Exports of the country increase GDP growth and foreign direct investment. It supports local business in the country.

(iv) Produce Cheapest electricity

Non-renewable resources of energy very costly in terms of electricity but renewable energy resources are very cheapest. Pakistan imports solar energy from China in low prices which are costly instead of oil. For example, According to National Electric Power Regulatory Authority, 2021 yearly report, Pakistan total power generation capacity

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is 39772 MW, of which 5.4% comes from solar, wind, hydro and biomass.

(v) Rise employment opportunity

Now a days unemployment is a major problems in country. owing to lack of jobs, many people is moving to another country. Renewable energy resources increase jobs opportunities in the country such as engineering and construction industry. Many graduated students of Pakistan are working in solar panel projects. According to world Bank, Pakistan can generate 300,000 jobs through investment in renewable energy.

(vi) upgrading people living standred

The voral and urban areas of Pakistan face electricity problems. Many hours load shudding is a common problem. Therefore, those areas's living standred is very poor. Renewable energy sources make their life comfortable, especially from using solar energy.

For instance, World Bank has provided \$100 million to the Sindh Solar energy project for improving there's people living standred.

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(vii) Strengthen the palitical system of the country

Another significance of renewable energy sources of Pakistan to solve palitical rivalries. Political parties are main part of the country for working in any field. Energy crisis, rising inflation, decreasing trust deficit are major problems of country. These can solve through the negotiations of political parties and government through focus on renewable energy resources.

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(viii) Enhance research and development

Advanced technology is a very vital part of any country. For producing and enhancing the capacity of renewable energy resources, research and develop^{ment} are necessary. In many university in Pakistan are working for solar projects

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7

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Such as, Quaid Azam University and NUST University Islamabad.

(ix) **Help to reduce health problems**

Non renewable energy sources are fostering different disease in the country such as cancer, TB, and Hepatitis. Renewable energy resources are helpful for a good health. It's not produce hazardous chemical such as smog which are dangerous for health.

(x) **Boost industrial growth**

Due to non-renewable energy resources, many industries are not working properly and some are closed. For example, in 1990 era, 35 industries were shifted to the Bangladesh owing to shortage of energy. Currently, industries are working with the help of renewable sources with the help of China.

(xi) **Increase Agricultural growth**

Agricultural growth is also increasing

8

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due to renewable energy resources. For example, tubewell are working on solar power plant for irrigating the land. The scarcity of water is also being completed through hydro and thermal power plant.

(5) Concluding Remarks

Renewable energy resources are creating sustainable opportunities for the country. According to estimates, Pakistan will complete its energy problems by 2023. Pakistan should increase the friendship with China and work on energy projects. Besides, education is an important element, the country should teach such subjects which is related to solar projects to its students in university. Therefore, employment opportunities can increase in the country.