

Topic: Imbalance of Energy Mix in Pakistan and its Consequences

Outline

A. Introduction

B. What is Energy Mix; A Brief Overview

C. How Pakistan is Facing Imbalance of Energy Mix

1. Most of the energy production through thermal power plants
2. Production of electricity through Coal
3. Small scale of production from solar energy
4. Least utilization of wind energy
5. Production of electricity through nuclear power plants
6. Dependence on natural gas for domestic purposes

D. Consequences of Imbalance of Energy Mix in Pakistan

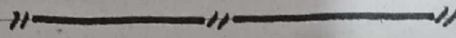
1. Reduction in foreign reserves and increase in foreign debts

2. Expensive electricity for consumers
3. Closure of industries due to loadshedding
4. Becoming a catalyst to global warming and climate change

E. Wayforward to overcome the Imbalance of Energy Mix in Pakistan

1. Installation of renewable energy plants
2. Completion of pending hydro power plants.

F. Conclusion



Essay

"A nation that can't control its energy sources, can't control its future", says former American President, Barak Obama. There are number sources are invented in recent times which being utilized by world. This created an energy mix, but unfortunately despite utilizing these resources

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in a balanced way, they are being used imbalanced. As far as Pakistan is concern, Pakistan is also utilizing number of resources like other countries. But the problem arises when these resources are utilized imbalanced. In Pakistan energy is produce through different sources like Thermal power plants, hydel power plants, solar energy and nuclear energy. Most of the energy is being produced through thermal power plants which uses hydrocarbons. Such an improper usage of energy sources are causing the imbalance. This improper usage of energy sources are causing number of consequences which are affecting not only the government, but also the public. These consequences are reduction in forex reserves, expensive electricity for consumers and disure

of industries. There is always a solution to any problem. Imbalance of energy mix has also a solution. These are installation of renewable energy projects and completion of pending hydel projects. That's how imbalance of energy mix can be countered. Imbalance of energy mix remained an severe issue of Pakistan since long. It is causing number of consequences which can be countered through taking some steps.

Energy mix is the mixture of production of energy from different sources, and being utilized at same time. Currently, in all over the world energy is produced through different resources like coal, water, natural gas, solar, wind and many more. Some of these resources are renewable and others are non-renewable. There has always been

remained a problem of their balancing. As renewable resources are environment friendly, but are not the first choice of production of energy due to their low production capacity. The world needs to focus on the balancing of energy mix to utilize them in a better way.

Firstly, most of the energy in Pakistan is produced through thermal power plants which causes an imbalance of energy mix. Thermal power plants uses hydrocarbons to produce electricity. Hydrocarbons are one of the most expensive resource of energy, because the prices of oil are increasing day by day. According to state bank of Pakistan, Pakistan imported hydrocarbons of worth \$23 billion in fiscal year 2022-23. Most of

them were used for the
production of energy. Therefore,
production of electricity from thermal
power plants ^{at large scale} are causing imbalance
of energy mix in Pakistan.