

TOPIC : IMBALANCE OF ENERGY MIX IN PAKISTAN AND ITS CONSEQUENCES

OUTLINE

1- INTRODUCTION

Thesis Statement : Pakistan has been grappling with the issue of an uneven energy mix ^{for} since many years. This crisis results from factors that include lack of investment in the energy sector, overreliance on fossil fuels and inefficient energy use. Alternative Energy Sources' adoption and induction of power plants are few of the remedial measures to bring Pakistan's energy predicament to a stable footing.

2- Pakistan's Energy Profile and Imbalance of Energy Mix

3- Causes of the imbalance of Energy Mix in Pakistan

- Lack of investment in the energy sector
- Circular debt disrupts energy generation That is the effect not cause of imbalances energy mix
- Overreliance on fossil fuels
- Currency devaluation and fluctuating oil prices That is the effect not cause of imbalances energy mix
- Inefficient energy use and lack of energy efficient technologies How does that cause imbalance in the mix
- Political interference in the energy sector

4- Consequences of the Energy Mix Imbalance in Pakistan

- Foreign exchange reserves are strained
- Environmental impact in the form of air

pollution and greenhouse gas emissions due to fossil fuel combustion

- (c) External shocks in the economy due to fluctuating oil prices ✓
- (d) Untapped alternative and renewable energy resources such as solar and wind Cause not effect
- (e) Lack of necessary infrastructure development for energy transmission aggravates the imbalance X You are discussing effects not causes
- (f) Demand X of energy keeps rising due to population growth and global warming not related to imbalance
- (g) Hampers employment opportunities for labour that could be utilised for execution of alternate energy resources. Very indirect argument

5- How can the imbalance of energy mix in Pakistan be adequately and effectively addressed?

- (a) A comprehensive policy and regulatory framework for?
- (b) Infrastructure development and building for energy installation and functioning. How will that help the mic
- (c) Investing on initial costs for long-term infrastructure and technology. ssame as previous argument
- (d) Relying on local renewable energy resources ✓

6- Conclusion

The topic lacks in depth analysis

Attention grabber should relate with the topic not just one aspect of it

Essay

Energy is vital to sustain life. It is energy that causes machinery and appliances to function. The lights and fans that are turned on, to the fridges that operate and electricity generation are all a result of an energy mix.

It almost seems that a world where a healthy and balanced energy mix of energy resources whereby alternate energy resources

Sentence structure should be shot and simple

are maximised and minimal reliance on fossil fuels is non-existent and a distant reality. From developed to developing countries, everywhere fossil fuels are the main source of energy production.

Half the intro has gone and you have not come to Pakistan

Developing countries, however, additionally face the issue of energy shortfalls as a result of energy demands being unfulfilled. As is the case with many other developing countries, Pakistan has been facing an imbalance

Shortfall is energy imbalance
Energy mix imbalance pertains to resources of energy

Country seeks to address energy shortages and improving energy efficiency. The imbalance of energy mix in Pakistan has been long-standing that has significantly impacted and impeded the country's economic growth and development.

Gist of outline

This crisis results from a lack of investment in the energy sector, over-reliance on fossil fuels and inefficient energy use. Adoption of Alternate Energy sources such as Solar Energy, Wind Energy, Hydroelectric Energy, Biomass Energy and policies to induct power plants for effective energy transmission are the need of the hour.

generalise your thesis statement

PAPERWORK

to address this multifaceted issue.

Pakistan's energy mix has been characteristic of energy shortages and heavy reliance on fossil fuels. Pakistan has traditionally relied heavily on fossil fuels, particularly natural gas and oil, for its energy demand. As of 2023, according to the ^{latest} Economic Survey of Pakistan, the energy mix comprises 58.8 percent thermal, 25.8 percent hydel, and 8.6 percent nuclear power. Additionally, according to Dr. Ghulam

Mohey Ud Din, alternate power sources contribute 6.8 percent to the overall mix (Pakistan's energy mix and export competitiveness, Business Recorder, 2023). From this, it is apparent that a huge imbalance in energy mix exists in

Pakistan whereby ^{most of the} almost 90 percent of electricity generation is through fossil fuels and only about 6 percent is through alternate energy sources. Limit crunch to the mix imbalance than discussing short fall.

During the summer months from May - August 2023, Pakistan faced an acute energy crisis wherein the electricity short fall widened to 7000 megawatts.

(Usama Rehman, Energy Crisis in Pakistan, Modern Diplomacy, 2023) Concluding sentence?

No cohesive transition to causes Lack of investment in the energy sector is one of the primary causes of the energy imbalance. the discussion is not energy imbalance Insufficient investment and lack of substantial investments in building new power plants or upgrading existing infrastructure to meet the growing energy demands has kept the issue from moving

That is not a complete paragraph
Also not related to the topic

towards resolution.

Secondly, the circular debt crisis in the energy sector hampers and aggravates the crisis. This occurs when power generation companies are not paid on time by consumers or government, leading to a shortage of funds for fuel and maintenance. Resultantly, electricity generation is disrupted.

No structure, One or two sentences do not make paragraphs. write the paragraph on proper structure

Next, over reliance on fossil fuels has made the energy sector vulnerable to price fluctuations and supply disruptions. Pakistan particularly ^{heavily} imports natural gas and oil which are finite and expensive resources that are susceptible to market price.

Following from the previous cause, heavy import of fossil fuels also causes fluctuating oil prices to cause an unpredictability in energy mix and generation of power according to demand. Currency devaluation results in higher prices of these fossil fuels putting the entire energy mix at a deplete position.

no structure lacks proper argumentation

Moreover, inefficient energy use is a major factor that causes the imbalance of energy mix in Pakistan. Wasteful industrial commercial and residential energy consumption practices contributes to the crisis. Lack of energy efficient technologies and conservation measures result in higher energy demand.

How does that result in energy mix imbalance?

Furthermore, political interference

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This is just a topic sentence. No proper argumentation.
This is not even a paragraph.

in the energy sector has led to inefficiencies, mismanagement, and a lack of transparency. This has led to the further worsening of the energy mix imbalance and crisis.

Pakistan's energy mix imbalance has led to several consequences. Firstly, foreign exchange reserves are strained. This occurs due to depletion of indigenous natural gas reserves that has forced the country to import expensive liquefied natural gas.

Second, increased environmental impact has resulted. Fossil fuel combustion contributes significantly to air pollution and greenhouse gas emissions exacerbating environmental degradation and climate change. Air quality has also worsened.

Thirdly, external shocks in the economy due to fluctuating oil prices, heavy import and fossil fuel dependence has been a continuous consequence. Geopolitical factors such as international relations and volatile oil prices put the imbalance of energy mix of Pakistan at an extremely uncertain position.

Moreover, Pakistan's vast potential of untapped renewable and alternate energy resources remains underutilised. The coastal areas of Pakistan, for instance, particularly Sindh and Balochistan have substantial wind energy potential. However, installing adequate and efficient wind turbines that could

diversify the energy mix has not been done. This leads to strain on conventional resources and unsustainability.

~~Furthermore, the lack of necessary infrastructure development aggravates the energy mix imbalance especially in remote areas.~~

Lastly, hampering of employment opportunities is an impact of the imbalance of energy mix in Pakistan. Skilled labour that would be used for installation, operation and maintenance of energy's alternate resources is underutilised resulting in lack of job creation and stagnant economic growth.

The redressal of this imbalanced energy mix is possible through the following proposed remedies. A policy and regulatory framework that comprehensively develops an inclusive environment and fostering proactive institutions that include incentives and regulations. How would that sub the issue with the mix This is a crucial factor that would encourage private investment and innovation in the alternative energy sectors to curb the imbalanced energy mix.

Second, infrastructure development and building of energy installation and functioning is necessary. Power grids and transmission lines establishment is essential especially in remote areas to ensure energy shortfall and imbalance energy mix is reduced.

Thirdly, initial costs that are incurred in the development of alternate energy production and technology should be ^{elaborate} made and seen as an investment for long-term. The upfront investment is substantial to end the energy imbalance mix.

Lastly, relying on relatively easily and cheaply available alternate energy resources is the ultimate solution to curb Pakistan's ^{mix} energy imbalance. For instance, relying on Solar Energy. Pakistan has abundant sunlight annually, making solar energy's widespread use, ^{reference?} viable option. Large-scale solar farms and rooftop solar installations can significantly augment the energy supply and improve its energy mix.

^{conclusively} All in all, ^{redundant} as relayed, the causes and consequences of the imbalance of energy mix in Pakistan is due to its inadequate supply of local energy sources and unmet demand for energy as a result of lack of investment in the energy sector. However, remedial solutions such as incurring initial costs or investment of technology to generate energy and a ^{very generic} comprehensive policy and regulatory governance framework can pull the country out of this imbalance.

	Category	Total marks	Obtained marks
Content	Qualitative analysis	10	0
	Quantitative analysis	10	1
	Validity & Reliability	10	0
	Relevance	10	1
Language	Sentence structure	5	1
	Vocabulary	5	1
	Clarity	5	1
	Command of language	5	1
	Expression	5	1
Structure	Outline	5	1
	Introduction	5	1
	Body paragraphs	5	0
	Conclusion	5	0
Coherence	Cohesion	5	0
	Coherence	10	0
Total			9