QUESTION NO # 08

Attempt on lined loose sheets for better practice

Pakistan's energy crisis is due to lock of strategy and political will. Discuss.

> INTRODUCTION:

Pakistan has been struggling with energy crisis over decades. This crisis stems from a combination of factors such as heavy reliance on imported fossil fuels, lack of energy policies, circular debt, not utilizing the Indigenous energy mix and above all the considerable political influence plays a vital vole in my raid energy problems in Pakistan. In contemporary energy-striven world, energy security is a linchpin between economic, environmental and national security. Pakistan's energy arisis has trouble implications for its fragile economy and volutile security setuations as the energy security seturations as the energy security seturations as the energy sector in Pakistan has always remained vulherable to external shocks and internal inefficiency.

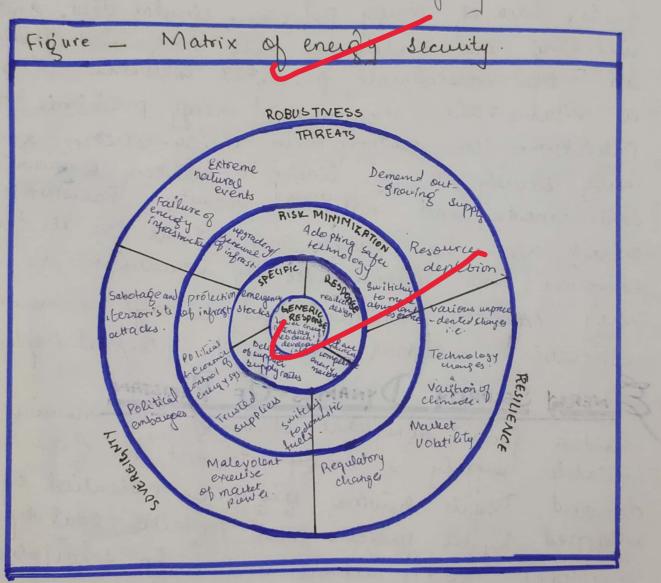
Pakistan faces significant challenges in ensuing the reliable supply of energy to meet its of rowing demand. Despite howing gigantic polential of unlapped hydel power, wast liginite coal deposits, unexplored hydrocubons and huge solar wind Potential to produce cheaper energy; It is

more inclined towards short-term and quick solutions.

According to UNDP energy security is defined as.

The availability of energy at all times in various forms, in sufficient appointable and at affordable prices, without unacceptable or irreversable impact on the environment. These conditions must prevail over the long term.

Energy Security is dependent on three key elements i e robustness, Sovereignity and resilience.



7 YAKISTAN'S ENERGY PROFILE: Pakistan's primary energy mix comprises natural gas, oil, hydropower, wal, nuclear alternative renewable energy sources and a small parcentage of imported electricity. Pakistan's energy consumption is expected to grow by 70% in the next 10 years, resuling in additioned Impacts of USD 6-8 billion on belonce of payments 7 CAUSES OF PAKISTAN'S ENERGY CRISIS: Following are some Relate your headings to the qs in statement a) Political Influence: There are numerous agencies worling under Two different ministries for exercy development, toansmission and regulation with their own terms or reference, political and strategies, without an efficient system of woordination. Since June 2017, two régulatory authorities heure been put under two different ministries.i.e NEPRA einder W water and power Division and OGRA under Petrolun and Natural resources Division. These authorities are working in highly centralized manner on pricing under considerable prolitical influence and tourists Relate your headings and 6) Policy energuments to the as quidance for improved statement, evaluation, and decesion making by the of overment for the secure supply of energy, Accommente lack

of integration in energy policy making and implementation as there are separate bodies for policy making, planning, developing a legale and regulatory framework for each fuel mix.

c) Barriers for hydro power politics:

Ever the years, a strong inclination has been observed towards promoting IPP and generation through themal Sources, while ignoring the hydel sector resulting in fall, in the ratio of hydel theregy or in the overall energy mix. In the past three decades the policies has been focusing more or short term quick solutions.

d) Heavy Reliance on Imported Fossil fuel:

Heavy reliance on imported fossil fuels particularly oil and LNG has been the brend in our energy profile. Oil and LNG worth \$824.872 million, were imported in f1 2020-2021 which is nearly 15.1. of entire import bill.

Add source against el Depletion of Indigenous gas: your references.

Palistan's Indigenous gas research highlightethem to decline by approximately 50% in the next 10 years, forcing it to import LNG ldiquified natural gas)

According to a report published by US Energy Information Administration (EA), Pakistantas estimated fresh recoverable shele gas reserves of 105 Trillion cubic

feet (Tcf) and more that a billion barrels of oil in Pakistan. Shale gers had seen Tremendious developments in a couple of other countries.

8) Independent Power Producers (IPPs) Issue,

Introduction of IPPs in energy sactor had considerable Emplication on power sector that raised the prices of power shifted pakistan energy mix in favor of oil and gas. In addition, the inexpedient agreements with IPPs allowing Them to set high tariffs and inessential guarantees also cided to the power wish in Palistan.

h) <u>Circular del</u>t:

roverment policies, failure to recover It D losses, overstaffing, delays in payment inefficiency in whether of sevenue and inappropriate allocation of subsidies are issues of paramount importance that are Sesponsible for lingued circular debt in country.

Add more arguments in this part

Way FORWARD !

Paliestan despite its relevance to the energy security of the region and beyond, has not been able to solve this miss due to different wes and policies of multiple energy bodies and organization in the wountry. The current situation demands strict implementations of following steps to achieve eningy security in pakistan.

by Establishment of 1- Improving Energy Governance National Energy Authority: There is a need to establish a single National Energy Authority (NEA) to oversee all institutions in the energy sector. NEA must have the power to Loordinate the efforts of all the sectors, relating to drafting and implementation of a single energy 2- Energy Sewity Policy Policy should focus on realism, vobustness, resilience and soverignity with incentives to exploit local resources reduce TAD losses, and inclease competitiveness 3 - Building a balanced / diverified energy supply mis. Pakistan's energy mix should incresse alternative renewable energy muclear energy solar production of provinces related to through net metering. Grievands should be addressed and myther related dispute lange reserve pirs should be explored CONCLUSION: Paleistan needs a multi-protogad approach to meet the growing demand of its energy including astrategic energy culture, a neutronal narroutive, a national social energy outlook, and energy supporting education It also need to have the right energy mix and reduced dependence of on fossil fuels Moreover, the environmental consens should be kept at forefront in dealing with the energy cuisis and options for greener and sustainable energy should get the priority to ensure a cleaner environment.