

1) Dignity 2) Healthy Self + Main on local part.

Q Explore the option of alternative energy resources to overcome energy crisis in Pakistan.

Answer Introduction

"Energy crisis leads to economic instability."
(- Mulecha Rodhi)

Pakistan has been facing energy crisis problem since 2007. In fact, energy crisis has resulted excessive load shedding and price in hike. However, adopting alternative energy resources will help in eradication of energy crisis in Pakistan.

2- Energy Crisis - the excessive load shedding and price in hike: an Overview

"Energy crisis leads to price in hike."
(- Economic Survey 2019)

Energy crisis is become a major cause today. Unfortuna-

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ately, Pakistan has been facing the worst crisis of energy since 2007. Moreover, energy crisis has prevailed excessive loadshedding and price in hike.

"The year 2022, was recorded the worst

year of loadshedding since 1965."

(Economic Survey, 2022)

- And -

"Excessive loadshedding resulted price of domestic and commercial unit at peak."

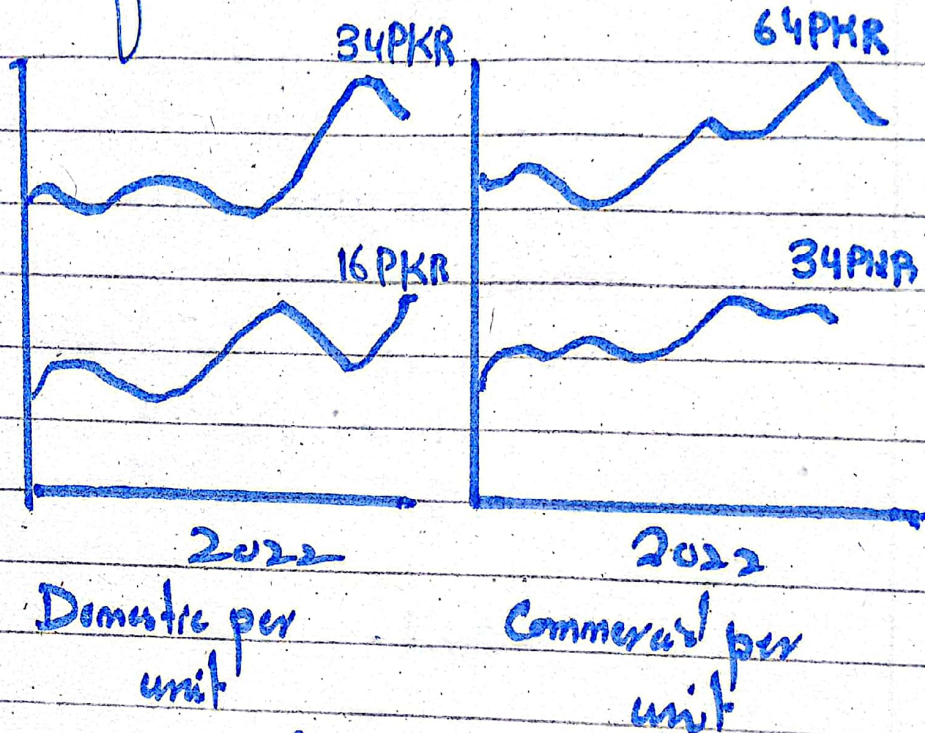
(Economic Survey, 2022)

Energy crisis prevailed excessive loadshedding as follows:

Excessive loadshedding 2022	
Rural	16 to 18 hours
Urban	8 to 10 hours

(Source: Economic Survey, 2022)

Furthermore, price reached 97 paise as follows:



(- Economic Survey, 2022)
Therefore, energy crisis led to excessive load shedding and price in hike.

3- Possible alternative energy resources to overcome energy crisis in Pakistan

Alternative energy resources will help to overcome energy crisis. Following are alternative energy resources.

Alternative energy resources

wind

solar

hydel

civil nuclear projects

a) Wind as an alternative resource of energy generation

Pakistan has capacity to generate energy from wind source. In fact, coastal areas of Sindh, Thar, and Balochistan are sources of wind energy generation.

"About, 3000 MW of energy can be produced from wind."

(Economic Survey, 2020)

Hence, Pakistan can generate energy from wind to overcome energy crisis.

b) Energy generation from solar source

as an alternative energy production

Pakistan has also capacity to generate energy from solar cells. In fact, Pakistan has generated sufficient energy from solar source.

"Estimated 900 MW of Energy generation is produced from Allama Iqbal Damir Plant, Bahawalpur."

(Pakistan Bureau of Statistics - 2022)

Thus, Pakistan has capacity to generate alternative energy from solar cells to overcome energy crisis.

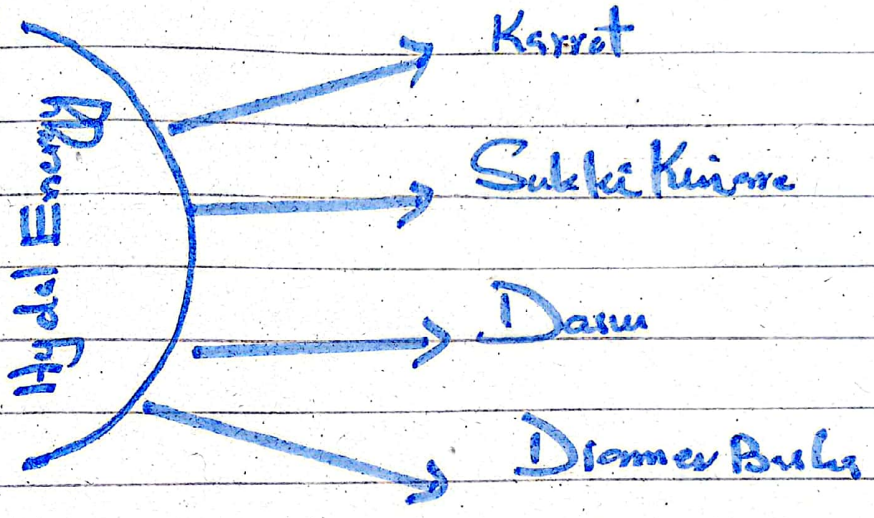
c) Hydel energy generation: an alternative resource of energy

"Pakistan can produce 60% of energy need from hydel source."

(The World Bank, 2022)

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Pakistan has sufficient capacity to generate energy from hydro source. Following are main sources of hydro energy in Pakistan.



1) Korot energy source: the hydro energy can be produced from Korot source. In fact, Korot energy is produced as sufficient to overcome energy crisis.

"About 730 MW of energy is produced from Korot." (- Economic Survey, 2022)

Therefore sufficient hydro energy can be produced from

karrot.

ii) Suleki Kamine: the hydel energy generation

Further, subskinkamine is another source of hydel energy. Energy need is also fulfilled by energy produced from Suleki Kamine. According to Irrigation Department,

'About 883 MW of energy is generated from Suleki Kamine.'
(-the Irrigation Department, 2021)

Hence, sufficient hydel energy is also produced from Suleki Kamine to overcome energy crisis in Pakistan.

iii) Energy Generation from Dam Power plant

"Pakistan has tremendous potential to generate alternative energy resources."

(-The World Bank, 2023)

Pakistan can also produce adequate energy from Dasu power plant.

"Capacity of Dasu power plant is estimated as 4300 MW of energy."

(- Irrigation Department, 2020)

Therefore, Pakistan can also produce sufficient energy from Dasu power plant.

iv) Damar Basha Dam: A source of energy generation

Damar Basha has tremendous capacity to produce energy generation. In fact, the highest energy is produced from Damar Basha Dam.

"About 4500 MW of energy can be produced from Damar Basha Dam."

(- The Irrigation Department, 2020)

Therefore, Pakistan can produce tremendous energy from Dams/Banks to overcome energy crisis in Pakistan.

Hydal Energy Capacity

Kerrot 730 MW

Sukkur 883 MW

Dam 4300 MW

Dams/Banks 4500 MW

d Energy Generation from Civil Nuclear Power projects

"Pakistan is a country of concerns."

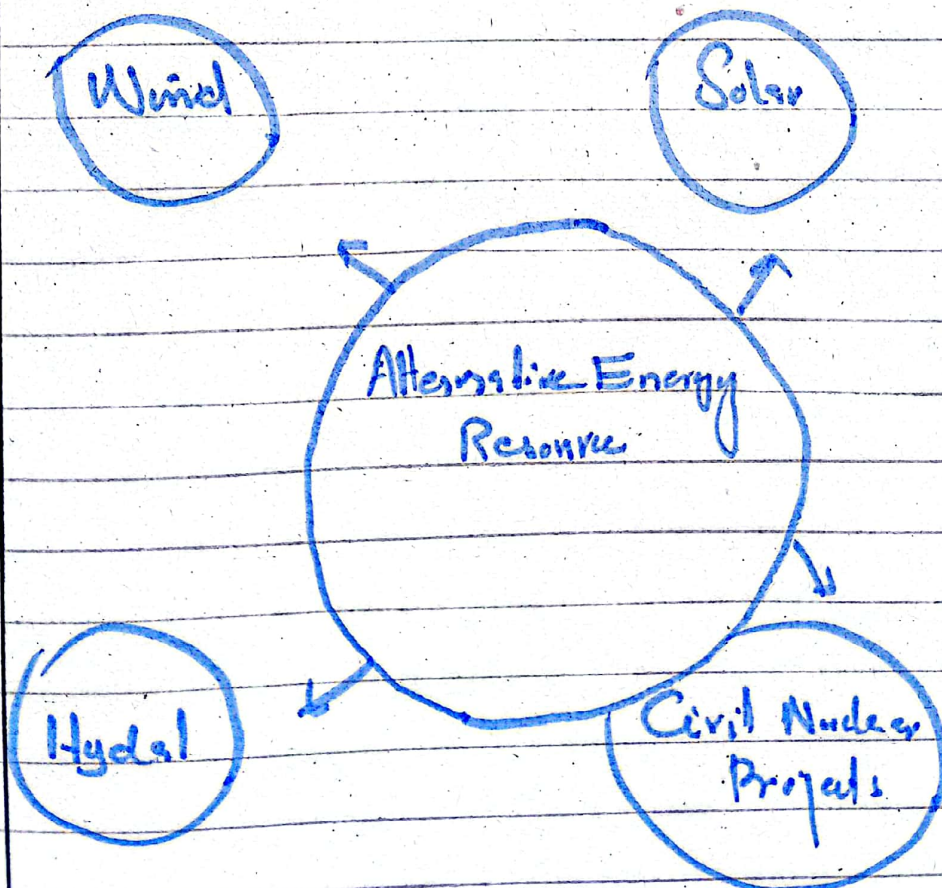
(USHR - 2022)

Pakistan has sufficient capacity of alternative energy resources. For prompt, efficient use of energy resources will generate tremendous energy.

"About 1320 MW of energy is produced from KNPP."

(- Pakistan Bureau of Statistics 2020)

Therefore, Pakistan can produce sufficient energy to overcome energy crisis.



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Conclusion

" Pakistan can reduce dependency on imported hydrocarbon by 50% by the end of 2030-31

(Economic Survey, 2022)

Pakistan has been facing severe energy crisis since 2009. Consequently, excessive load shedding and price hike is bearing economic burden, too. Therefore, by adopting alternative resources, Pakistan can overcome energy crisis.