

# Enigma of meeting energy requirements and fulfilling climate responsibility. (Majid)

## Outline

### 1. Introduction

Thesis statement: Meeting energy requirements and fulfilling climate responsibility is an enigmatical issue. Ignorance of various reasons is responsible for making these factors as an enigma. Absent efforts to ensure meeting energy requirements and fulfilling climate responsibility may prove us-  
eful in long run.

### 2- Relation between meeting energy requirements and fulfilling climate responsibility.

### 3- Factors which make meeting energy requirements & fulfilling climate responsibility an enigma.

a- Corruption in governance sector

b- Political instability hinders meeting energy requirements and fulfilling climate responsibility.

c- Dependency on expensive non-renewable energy resources and their misuse.

d- Lack of practical implementation of energy & climate policies.

e- Economic recession as a basic cause.

f- Lack of future planning in meeting energy requirements and fulfilling climate responsibility.

g- High illiteracy rate as a root cause.

h- No promotion of renewable energy related technology.

### 4- Poor focus on meeting energy requirements and fulfilling climate responsibility; Impacts

a- Despite high fuel prices, there is continuous climate violation

b- Economic instability is a direct impact.

- c. Increase in natural hazards
  - d. Decrease in industrial production
  - e. Diminished agriculture production due to climate change
5. How to ensure meeting of energy requirements & fulfilment of climate responsibility.
- a. Making new energy & climate policies & ensuring their implementation.
  - b. Shift on renewable energy resources
  - c. Ensuring political stability is an important step
  - d. Social awareness on climate change and check & balance system in governance sector.
6. Conclusion

## Essay

Despite will of winning, the proverbial rabbit ignored the destiny and kept sleeping. On the other hand, the turtle solved the enigma of race with consistent effort and reached on the destination. Despite lack of resources and facilities, if one follows the path (consistency) of the proverbial turtle, then the achievement of any enigmatic destination is inevitable. Same way, enigma of meeting energy requirements and fulfilling climate responsibility can be solved by concerted efforts and struggle. There is a close relation between energy requirements and climate responsibility. The factors which make meeting energy requirements and fulfilling climate responsibility an enigma are corruption, political instability, dependency on expensive non-renewable energy resources and their misuse. Moreover,

lack of practical implementation of energy and climate policies, economic recession, lack of future planning, high literacy rate and absence of promotion of renewable energy ~~resource~~ related technology. The impacts of this enigma can be climate violation, economic instability, increase in natural hazards, decrease in industrial production and diminished agriculture production due to climate change. However, by taking concerted efforts, as making new energy and climate policies and their implementation, shift on renewable energy resources, ensuring political stability, social awareness on climate change and check and balance in governance sector may solve this notorious enigma. Meeting energy requirements and fulfilling climate responsibility is an enigmatic issue. Ignorance of various reasons is responsible for making these factors as an enigma. Assented efforts to ensure meeting of energy requirements and fulfillment of climate responsibility may prove useful in long run.

Energy consumption has been demonstrated to increase relative to population growth and industrial and economic development in many under-developed countries. According to IEP report-2021, the world energy consumption of 9,937 million tons of oil largely depends on oil followed by electricity, natural gas and coal. Of the total world energy consumption, China (21%), USA (16%), India (6%) and Russia (5%) are the major energy consumers. Pakistan, having less than 1 percent share in world energy consumption, meets its energy demand through imported and indigenous resources.

However, due to economic recession, Pakistan is unable to fulfil its energy requirements properly. The country being a minor energy consumer, contributes a small proportion in climate violation but on the same time, it has been affected a lot due to climate change. Thus, due to economic recession, the relation between meeting energy requirements and fulfilling climate responsibility is inverse in the country.

The factors which are responsible for enigma of meeting energy requirements and fulfilling climate responsibility are much in number. Corruption in governance sector is one of them. Because the governance sector is a root cause factor of every system and corruption in this sector plays a vital role in hindering meeting energy requirements and fulfilling climate responsibility. Due to corruption, the governance sector lacks interest in fair administration & management of energy resources. And its ultimality results in climate violation by unfair use of energy resources. Pakistan is 140<sup>th</sup> corrupt nation out of 180 countries (Transparency International, Corruption perception Index 2022). Thus the corruption in governance sector leads to the enigma of meeting energy requirements and fulfilling climate responsibility.

Not only corruption in governance sector but political instability also results in enigma of meeting energy requirements and fulfilling climate responsibility. Political instability affects the whole system of the state as low foreign investment and unequal budget distribution for energy and climate sector.

Moreover, political instability hinders crucial role of politicians in dealing with energy requirements and fulfilling climate responsibility. Political stability and security are tenuous in Pakistan and real GDP contracted mildly in fiscal year 2023 (Economic Intelligence Unit, August 2023). Hence, enigma of meeting energy requirements and fulfilling climate responsibility is also due to political instability.

As political instability, dependency on expensive non-renewable energy resources and their excessive use also leads to enigma of meeting energy requirements and fulfilling climate responsibility. Due to dependency on non-renewables, high energy budget is used. Excessive use of non-renewables also results in climate violation. The imported oil resources do not meet full requirements of energy and that use contributes in climate violation. The country may face challenges in the near future, like scarcity of indigenous resources, rising imported fuel prices and future supply chain disorder (IEP, Pakistan energy outlook report, 2021). In this way, depending on non-renewable energy resources and their excessive use leads to enigma of aforementioned issue.

Not only dependency on non-renewables but also lack of implementation of energy and climate policies contributes in making enigma of meeting energy requirements and fulfilling climate responsibility. Absence of implementation of energy & climate policies directly hinders the meeting of energy requirements. Same way, absence of implementing climate policies leads to climate violation. ⑤

The implementation of energy and climate policies may contribute in meeting energy requirements and fulfilling climate responsibility. The implementation of National climate change policy has been assessed, that shows poor achievements gained by Ministry of climate change (NCCP report, October 2021). Hence, lack of implementation of energy and climate policies results in enigma of the discussed issues.

Not only lack of implementation of energy and climate policies but also economic recession leads to enigma of meeting energy requirements and fulfilling climate responsibility. Being the basic reason, the economic recession is a strong barrier in meeting energy requirements and fulfilling climate responsibility. The price of imported oils is high & poor economic state can not support it. Someway to fight against climate change is impossible without strong economy. Global commodity prices increased in April 2023, led by crude oil at 7.8% & coal at 8.8%. (Pakistan's economic update and outlook, May 2023). It shows Pakistan is facing energy crisis due to international hike in energy resources price. Hence, economic recession is the basic cause in making meeting energy requirements & fulfilling climate responsibility an enigmatic issue.

The economic recession does not contribute alone in enigma of meeting energy requirements & fulfilling climate responsibility but also lack of future plan. (6)

ning contributes equally in it. Lack of this future planning is the root cause of the aforementioned issue. Absence of planning for meeting energy requirements and their improper use would directly result in violation of energy resources and climate also. In developing countries, such as Pakistan, lack of future planning for climate change poses a serious challenge to social, environmental and economic development within migration across national borders of Pakistan (NCCP report, October 2021). Thus, lack of future planning eases in making enigma of meeting energy requirements and fulfilling climate responsibility.

Not only lack of future planning but also high illiteracy rate results in enigma of meeting energy requirements and same way the illiterate society could not know how to use energy resources safely. Literates can render ideas of dealing with meeting of energy requirements & fulfilling climate responsibility. Inadequate public understanding of climate change is a major obstacle in fighting with climate change and proper using of energy resources (Daily times, PPCIS 2022). In this way, meeting energy requirements and fulfilling climate responsibility become an enigma in an illiterate state.

Within high illiteracy rate, lack of promotion of renewable energy related technology eases in making enigma of meeting energy requirements and fulfilling climate res. (7)

onsibility. Because, renewable energy resources are cheaper as compared to non renewables. It does not violate the climate. Many factors as economic recession and illiteracy also hinders creative thought regarding installation of renewable energy technology. A major challenge in using renewable energy is that, many people do not have enough understanding or expertise in this area (CAREP, users perspective, June 2023). Therefore, lack of promotion of renewable energy related technology ~~does not~~ leads results in enigma of meeting energy requirements and fulfilling climate responsibility.

There are huge impacts caused by enigma of meeting energy requirements and fulfilling climate responsibility. One of them is continuous climate violation within high prices of energy resources. The reason is that, the states are unable to control their demands due to increasing population. Same is the case of Pakistan. The state despite high prices tries to meet energy requirements but they are used unfairly and improperly, resulting in climate violation. As according to IPCC, project CO<sub>2</sub> emissions from existing fossil fuels infrastructure, with additional abatement would exceed the remaining carbon budget for 1.5°C (Intergovernmental Panel on Climate Change, 2023). In this way enigma of meeting energy requirements and fulfilling climate responsibility directly impacts on the climate. The impact caused by enigma of meeting energy requirements and fulfilling



climate responsibility is not limited to climate violation only but it also results in economic recession. Because the state facing aforementioned issue would be unable to stabilize its economy due to extra expenditure on expensive imported oil and on hazards caused by climate catastrophes. Hence within the state diminishes due to improper meeting of energy requirements and climate catastrophe. "Fossil fuels are a dead end for our planet, for humanity and yes, for economies" (UN Secretary General Antonio Guterres, IPCC report, 2022). Hence, economic recession is a direct impact of enigma of meeting energy requirements and fulfilling climate responsibility.

As the economic recession, natural hazards are also result of enigma of meeting energy requirements and fulfilling climate responsibility. Being enigmatic issue of energy and climate the natural hazards are directly proportional to it. That would result in high alert energy emergency situation in the countries. The natural hazards would also require more energy requirements and would also result much in natural hazards. According to the National Disaster Management Authority, nearly three million people have been affected across the country with consequential loss to lives, houses, crops, livestock etc (NDMA, 2022). Thus, in this way natural hazards are direct impact of enigmatic issue of meeting energy requirements and fulfilling climate responsibility.

Not only natural hazards but also decrease in industrial production is the impact ③

of enigma of meeting energy requirements and fulfilling climate responsibility. Due to improper energy supply and climate change, the industrial production would diminish at large extent. Also due to hike in prices of oil, the industrial production decreases. Being a cyclical effect, diminished industrial production would lead to low economic share and it would lead to low economic share and it would ultimately result in improper meeting energy requirements and would also hinder fulfilling climate responsibility. Industrial production in Pakistan decreased 14 percent in May of 2023 over the same month in the previous year (State Bank of Pakistan, 2023). Therefore, low industrial production is an impact of enigma of meeting energy requirements and fulfilling climate responsibility.

Within decrease in industrial production, the agriculture production also decreases due to issue of improper meeting energy requirements and climate change. Because improper energy resources and natural hazards due to climate change would diminish the agriculture production. Agriculture production being the backbone of Pakistan's economy also impacts directly on society. This would increase poverty and resultant social unrest on both individual and collective level would be created. Due to high oil prices and climate catastrophe, the overall decline of important crops of Pakistan, during this year is 3.20 percent (Pakistan's agriculture performance, 2022-23). Thus, low agriculture production

is the impact of enigma of meeting energy requirements and fulfilling climate responsibility.

Despite notorious impacts, the enigma of meeting energy requirements and fulfilling climate responsibility can be solved with suitable remedies. One of these remedies is making new energy and climate policies and ensuring their implementation. New energy and climate policies would have capacity to meet energy requirements and fulfillment of climate responsibility. Moreover, the issue can not be solved just by making new policies but also their implementation is required. The new policies should be updated on the basis of need to counter the aforementioned issues. Hundreds of projects have been initiated by the federal government and provincial departments i.e. Ten billion tree Tsunami, Clean Green Pakistan, Indus, ecosystem restoration are one of the major initiatives in addressing climate change in the country (PCCP, 2020). Hence, making new energy and climate policies would solve the enigma of meeting energy requirements and fulfillment of climate responsibility.

Along with making and ensuring implementation of new energy and climate policies, the shift on renewable energy resources would also solve this enigma of meeting energy requirements and fulfilling climate responsibility. Because renewable energy resources are cheap and does not contribute in climate violation. The industrial production along with agriculture

and safe non-renewable energy resources. According to the revised RE policy, government of Pakistan aims to derive 60% of energy from renewable sources (Pakistan's renewable energy policy, 2022). Therefore, shifting on non-renewable energy resources would ensure meeting energy requirements and fulfillment of climate responsibility.

Not only shift on renewable energy resources but also ensuring political stability would solve the enigma of meeting energy requirements and fulfilling climate responsibility. Being the driving force of a state, the strong politics would facilitate in making fair decisions regarding energy and climate responsibility. Ensuring political stability could be possible by increasing literacy rate. "We need peace and stability in the Asia Pacific region. It is important to have political and security stability to build up our economic growth," (Joko Widodo, Indonesian President). It means with political stability, economic stability would increase resulting in facilitation of dealing with energy requirements and climate responsibility. In that way by ensuring political stability, the enigma of meeting energy requirements and fulfilling climate would be cleared.

As ensuring political stability, social awareness on climate change and check and balance system in governance sector would also ensure meeting energy requirements and fulfilling

climate responsibility. Social awareness would directly facilitate society in using energy resources properly. It would also aware them with knowledge of dealing with climate change. Moreover, by maintaining check and balance system in governance sector would facilitate proper meeting of energy resources and fulfilling climate responsibility. "Raising awareness on the most pressing environmental issue of our time is more important than ever" (Leonardo DiCaprio, American actor). Thus, social awareness and balance system in governance sector would solve the aforementioned enigma.

In summation, one may say that meeting energy requirements and fulfilling climate responsibility has a relation. The causes of meeting energy requirements and fulfilling climate responsibility as an enigma are can be corruption, political instability, dependency on expensive non-renewable energy resources, their misuse, lack of practical implementation of energy and climate policies and economic recession. Moreover, lack of future planning, high illiteracy rate and no promotion of renewable energy related technology can be its root causes. The impacts of meeting energy requirements and fulfilling climate responsibility would be climate violation, economic instability, increase in natural hazards, decrease in industrial production and diminished agriculture production due to climate change. The enigma of meeting energy requirements and fulfilling climate responsibility can be solved by making ensuring new energy and climate policies, shift

on renewable energy resources, ensuring political stability and social awareness on climate change with check and balance system.

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