

→ Essay:- Renewable Energy is a hoax:-

→ Outline:-

#### 1- INTRODUCTION:-

1.1 Breaking the Dilemma of renewable energy being a expensive hoax

1.2 Thesis - Statement:-

Renewable energy are most cost friendly as compared to fossil fuels. Their low operating and low fuel cost make it more reliable toward climate, it also provide long term financial stability. Renewable energy is also environmental friendly, reduces risk of disaster, also it provide social benefits like job creation. Provision of decentralized energy for remote area and is a major achievement. It is also beneficial for those countries which don't have direct access to fossil fuels. <sup>Also</sup> All scientific proofs show the harmful nature of fossil fuel - Proving

## 2- Understanding the Origin of Concept.

2.1- Confusion between initial Capital cost  
vs Life cycle cost-

2.2- Political Benefits-

## 3- Economic reality of renewable energy-

3.1- Prices reduction of ~~ren~~ Solar energy is 59%

3.2- Wind energy's prices reduced to 49%

3.3- Global reduction = 91%

## 4- Low operating and fuel cost

4.1- 467 Billion Dollars were ~~reduced~~ saved by  
reducing dependency on Fossil fuel in 2024-

## 5- Long term financial stability-

S1 "Case study: If Pakistan meet target of  
30% renewable energy target by 2030  
It will save up 6-7 M annually".

5.2 - IEA reported Renewable energy helped 100 countries in reducing their fossil-fuel dependency.

6. - ENVIRONMENTAL advantages:-

6.1 GHG:-

6.1.1 Reduced GHG emission.

- Currently it is recorded as 425 PPM (2025).

6.2 - 2024 Data show the statistics of 419 PPM of GHG globally

6.3 - Scientific phenomena explain its damage.

7. Reduce Disasters:-

7.1 - Flood in Pakistan are getting worsen from 2022 - 2025.

7.2 - Flood in Indonesia "2025"

7.3 - Forest fires in U.S.A

8. Social - Advantages

8.1 Job - Creation:-

8.1.1 - Obama created 1 Million Job after promoting EV's -

802- Paliston: Renewable energy created 14,000 and 11,000 indirect Jobs.

803- Globally = 13.7M Jobs in 202.

9- Decentralized Energy for remote areas

9.1- Replacing 11 kw feeders with solar generation

9.2- NGO NGOs are developing Renewable energy in Sindh and Coastal areas

10- Sustainability For Country with limited Fossil Fuel:

10.1- Iceland, Costa Rica, Bhutan are renewable energy with dependancy of approx 100%.

10.2- Tajistan 94% dependancy on renewable energy.

11- Scientific Consenses:-

11.1- "IRENA" 2013 reported 94% renewable energy is cheaper than fossil fuel

11.2 Involvement of scientific phenomena reduce  
GHGs

12. Global Consensus:-

12.1 Paris agreement:- Effort to reduce GHG gases  
and increase dependancy on

Renewables-

13. Conclusion:-

13.1 Short term cost out weighed long term  
environmental gain

13.2 - Delay can only the cost to climate.

## -: The Essay :-

Fossil fuel, for since decades is a source of energy world wide, which recently has been replace with the new alternative source of energy "Renewable energy".

Renewable Energy among many critics is called a expensive hoax, which means it is nothing but a dilemma that renewable energy is environmental friendly, plus the price of its installation and sustainability is very high. and production is nothing comparable to what produced by Fossil fuel. while for Renewable energy is nothing but a strategic

investment. It is not that prohibitively expensive. Renewable energy is cost friendly as comparable to fossil fuel. Their low operating and low fuel cost & make it

more reliable toward climate, it also

provide long term financial stability.

Renewable energy is also environment friendly.

It reduces risk of disaster, also provide

social benefits like job-creation. Provision

of decentralized energy for remote areas is

another positive aspect. It is also

beneficial for countries which don't

directly produce fossil fuels. Plus many

scientific arguments also explain

the cost transitional benefits and long term stability.

The concept was introduced by the mis-conception of initial cost for the installation of

renewable energy sources and its maintenance

while, if we take a deep look and

find the harmful effect of fossil fuels

extraction, and conversion is making to the environment in form of pollution, we will become clear that renewable energy is not only a benefit to humanity and life on earth but it's a investment which will move the world toward long term stability. Another major factor here is politically driven, where critics of are mostly look a temporary benefit of and overlook the long term effects.

Among the most debate, the debate of Renewable energy being expensive can be denied in such a way that in countries Pakistan we have seen a price reduction of 59% in solar energy, which is making it more affordable than traditional energy and thus increases the

number of rooftop grid of solar panels. also  
if we see wind energy's <sup>prices are</sup> is also reduced  
to 49% making it affordable commercially

Overall, In Global the prices of  
renewable energy, have already decrease to  
91% which show that world is accepting  
it as a investment.

Further more, operating cost of Renewable energy  
energy is more fuel friendly  
and it also reduces the fuel cost - 467 Billion  
dollar were saved globally after shifting  
energy need to renewable in 2019-

which show how favourable it is for the  
countries who have high dependancy on  
foreign fuel. Fuel is used to dig  
and extract fossil fuel and if  
it is exported it could cause damage

to a country's foreign reserves and can  
cause a Balance of Payment crisis for a  
country, thus reducing dependency on  
fossil fuel would give a state fuel cost  
in market, which would be less affected by  
change in foreign market, eventually stabilizing  
the economy of a country.

Moreover Renewable energy is a promising, if  
steps are taken timely. It can give  
a country long term financial stability  
within the country by reducing dependency  
and stabilizing economy by more production  
and avoid negative environmental affect by  
fossil fuel.

• IEA "International Energy  
Agency" reported that Renewable energy has  
reduced fossil fuel dependency of 100+  
countries.

According to a case study, if Pakistan would be able to meet its target of 30% dependency on renewable energy by 2030 it will save up to 6-7 Billion Million dollars annually. It clearly shows how renewable energy is boosting the country's economy.

Additionally, Renewable energy is very environment friendly. It reduces the production of GHGs (Greenhouse Gases) - These gases are Methane ( $CH_4$ ),  $NO_x$  (Nitrogen oxide),  $SO_x$  sulphur oxide, which are produced due to industrial activities, <sup>and</sup> mining etc. While renewable energy don't ~~need~~ produces such gas as it only use light, thermal, wind and ~~measur~~ nuclear energy and convert them into electricity. Globally the amount of PPM (particulate

matter) of green house gases is increasing,  
which <sup>increase</sup> from 2021 (449 ppm) in 2021 to

425 in 2025 cause more and more global warming

If we take a look a scientific phenomenon that  
is triggered by GHG we can surely

test the potential & benefits of Renewable  
energy toward the environment-

★ In addition, It also reduces the disaster  
which are triggered by the pollutants  
released due to fossil fuels. Fossil fuels

more directly, indirectly involve in enhancing  
global natural disasters like flood in

Pakistan in years 2022, 2023, 2024, 2025,  
among which 2022 and 2025 floods were  
catastrophic - also Indonesia lost  
over 1000 lives due to flood in 2025 -

USA - which is major pollutant and  
one of the critic in recent times

has seen the most worst forest fire in January 2025 which destroyed over 50,000 hector of it's Land, Thus for the sake of life and economy we need to see realization that future is of renewable energy.

Similarly, Renewable energy is very favorable for humanity and all forms of lives on earth. During the 8-years of Obama's presidency, he promote

renewable energy and created 1 million new jobs. Similarly in Pakistan

14,000 direct jobs and 11,000 indirect jobs has been created after giving boost to the renewable energy sector.

It is important as it also help in reducing inflation, Globally

13.7 million jobs are produced due to this specific sector in 2022

increasing the overall employment ratio

Further, Renewable energy is easy to be provided in remote areas. In many remote areas in Pakistan such as Gilgit, Chitral and Swat and many other remote and tribal areas in Pakistan

↳ old grid system is not capable enough to fulfill the basic energy need due to poor transmission and long distance, but if this energy is replaced with renewable and decentralized it would be

easy to distribute it all the possible areas as it is produced locally and transmission cost would be reduced. In

Pakistan efforts to replace 11 kv feeders with solar generation is already continued. and many NGOs are

actively participating in providing electricity to coastal area in Kutch and Baluchistan shows that renewable energy is a need of today.

Further there are many countries ~~which~~ fossil fuels are not found naturally and thus these countries needed to depend on fossil fuel ~~can~~ producing country - but renewable energy has reduced this dependancy among them. Iceland land is a living example whom dependancy on renewable energy is approximately 100% it's

65% energy comes from thermal energy and 20% comes from hydropower.

Other countries like Tajikistan have 94%.

dependancy, while Costa Rica and Bhutan are almost completely rely on renewable for their electricity needs.

According to "IRENA" International renewable energy Association shows that 91% of renewable energy is cheaper as compared to the Fossil fuel.

Additionally, Renewable energy use scientific phenomena where the converted photon into electrical energy. Use KE of ~~hydro~~ water as well as wind to convert<sup>in</sup> to electrical energy which is more longlasting, stable, and is a cheaper way to produce electricity as compared to the fossil fuels.

Plus, it is not harmful for the environment which is another major reason of the boost of green energy.

Moreover, it has also been accepted a  
universally that clean energy is need  
of the today's world. Paris agreement  
is one of its example where more  
than 100 countries agreed to  
reduce their carbon emission and  
shift their energy dependancy on Renewable  
among which major name like USA is,  
EU (European Union), China, India, Brazil, South-  
Africa and many ASEAN Nations are  
involved. Many multinational companies  
including Electronic vehical companies  
food and beverages companies companies  
like CocaCola and Pepsi and many many  
manufacturing companies are also involved.  
Efforts of many Prominents & leaders like

Obama and world's consensus not only show the need but also the acceptance that renewable is a investment for the stable future of world, where safe and clean environment can be provided to people.

In, Conclusion the short term cost as of renewable energy and weight the long term environmental gains and give a promising future. It's delay can cause cost not only to climate but also to humanity thus this paradox of renewable energy is a hoax needs to be ended and more facts should be given to this ground reality that its rejection cost is more dangerous than its prevention cost.