

# The role of renewable energy in mitigating global warming.

## Outline:

### 1. Introduction:

**Thesis Statement:** Renewable energy has profound roles in the reduction of global warming through numerous resources. These resources are known as hydro, solar, wind and nuclear energy. Thus, renewable energy resources maintain global temperature, promote clean environment so on and so forth.

### 2. Overview of global warming:

### 3. Renewable energy and its role in mitigating global warming:

3.1 Hydro power plants' contribution in the mitigation of global warming

#### A case study of Norway

3.2 Nuclear power plants and its roles

3.3 Wind Energy capability to reduce global warming

#### A case study of China

3.4 Solar energy has been contributing in the reduction of global warming

#### Reuters Report 2024 on Solar cars

3.5 Geothermal energy

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3.6 Renewable energy as environment friendly source.

3.7 Shifting into renewable energy  
**Objective of COP 28**

3.8 Sustaining the global temperature

3.9 Reducing ice melting

**WMO Report 2022**

3.10 Promotion of Clean environment

3.11 Reduction of green house gases

3.12 Role of renewable energy to lessen acid rain

3.13 Renewable energy to reduce floods due to global warming

**IAEA Report 2021**

4. **Conclusion**

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"The future generation will not be destroyed by terrorism. In fact, it is going to be destroyed by global warming." Addressing the UN, the US President Obama ascribed in 2016. Also, the former President of the United States, Obama addressed the United Nations to shift into renewable energy resources which play profound roles in the mitigation of global warming. Undoubtedly, renewable energy has the power to reduce global warming through numerous resources. These resources include hydro, solar, wind, nuclear and geothermal energy. These resources of the renewable energy sustain global temperature, reduce green house gases, and acid rain. Also, renewable energy resources reduce the floods. Therefore, renewable energy plays enormous roles to

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mitigate global warming.

To begin with overview,  
After the Industrial Revolution in  
1800s in Europe, global warming  
erupted. Moreover, the global warming  
started increasing in every century.  
According to WMO it increased in  
1800s 0.1 and reached 2.5. Consequently,  
non-renewable energy resources such  
as hydrocarbon and coal contributed  
in the hike of global  
warming. Further, with the passage  
of time, countries have advanced in  
the renewable energy resources  
to mitigate the global warming. Thus,  
the current situation is the  
result of utilizing the  
non-renewable energy resources.

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Moreover, hydro power plants have been contributing in the mitigation of global warming. Energy has been created by the movement of water flows. The same energy does not require any combustion or release of  $\text{CO}_2$ .

According to Norway's authorities of energy sector, it has been utilizing the hydro power plants. The hydro power in Norway contributes annually 60% to generate energy. Thus, Norway is the only country that lacks the disasters and emission of  $\text{CO}_2$ .

Also, nuclear power plants contribute in the reduction of global warming. Nuclear power is one of the most dangerous source of renewable energies though it helps to reduce  $\text{CO}_2$  emissions.

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Nuclear power plants do not emit CO<sub>2</sub> and other greenhouse gases. According to IAEA the US has installed 36 power plants near Alaska where no disaster has been seen since 2016. Nuclear powers are the only source to reduce global warming. Thus, nuclear power plants are considered the source in the mitigation of global warming.