

# Sustainable Development of Renewable Energy

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**ABSTRACT:** *To fix today's environmental issues takes a long-term response sustainable development future actions. Renewable energy supplies in this respect the e-free and the e-free approach seems one of the most e-free. That's why renewable resources and environmental growth are closely linked. Foreseen future energy consumption habits and consequent impacts on the atmosphere (acid focused) precipitation, ozone loss in the stratosphere and greenhouse e daily) are complete this paper addressed. Potential alternatives to emerging environmental challenges are now available in accordance with innovations for clean energy. Renewable Friendship practical examples and an illustrative example of energy and sustainable growth this is an example. Various clean energy concerns in the paper, present as well as potential environmental and economic growth Out looking. The findings and recommendations presently drawn are assumed to be energy scientists, engineers and decision makers will benefit from the research.*

**KEYWORDS:** *Environmental Issues, Environmental Challenges, Resources, Renewable Energy, Research.*

## INTRODUCTION

Energy is technology's convertible currency. The whole energy society fabric as we know will fall the supply of electricity to a town reveals how fully reliant we are, a particularly useful energy form. Hospitals and machines stop running and sink below the standard of treatment and support and the lights go out. As people rise, the need for more and more electricity is much faster than the normal 2% aggravated. Increased lifestyle and need for energy together grows and the affluent developed economies with a global population of 25 percent eat 75% of the electricity supply globally[1]. More focus has been paid to other environmental considerations control and the public industries. The idea of sharing liability between customers was gradually accepted for emissions and its prices. In some states, in the last one to two decades, prices of several energy commodities have risen, partly to take pollution costs into consideration. The people of the world should see economic growth double by the mid-21st century. Continue to expand almost definitely. Global energy demand is anticipated to increase the magnitude of primary energy to as much as 2050.

Approximately  $1.5 \pm 3$  times higher demand is anticipated. The imminent oil crisis can be overcome by consuming even more. Technologies and alternative energy sources. Often this cause is endorsed A fervor that contributes to the making of exaggerated and unlikely statements[2]. Convenience engineering, durability, applicability, economy, stock shortages and both public approval should be taken into account accordingly. Both energy sources on earth eventually, of course, come from the sun and solar power provides an ongoing supply of energy that warms us and causes crops heats the ground and sea di differentially and thus allows it to expand through photosynthesis winds, thus waves and rain that contributes to hydroelectricity, of course[3]. Honeymoon gravitational moon and sun and the geothermal are the products of rising and dropping heat profoundly in the Earth, the product of radioactive decay. All sources are possible energy however the interpretation of science does not obey the

enough research money should be spent in the project as a technological solution be properly found[4]. Awareness of the mechanism is the simple thing part; it's engineering, which is conducting the engineering business. In the light of the above, we should stress that energy is

One of the core reasons to consider in sustainability dialogue progress. development. Several sustainable development definitions have been created, including: "the development which meets the needs of the people' the potential of future generations to reach their own without sacrificing fifty-eight I. Evaluations 4(2000) 157±175 on dincer / renewables and sustainability needs'. A safe electricity supply is provided it was widely accepted that it was important for growth, but not succinct in a business. Sustainable growth of a community often requires a renewable electricity supply (which is readily and conveniently in the long term). Sustainable at fair cost and can be used for all activities without adverse social impacts) and e-necessary and e-neutral uses in energy resources. energy resources. The near relation between renewable energy in this respect sustainable energy sources and growth emerge. This paper aims primarily at addressing environmental topics like these stratospheric ozone degradation and greenhouse e joints as acid precipitation future energy use trends and consequent effects on the climate focusing on and finding alternatives to emerging environmental challenges the partnership between renewable energy sources and technologies sustainable energies and growth.

## DISCUSSION

### *Environmental problems*

The probability and fact of environmental destruction over the last two decades they've been more visible. There is growing evidence of environmental issues, a mixture of many factors, because of human environmental effects activities have risen significantly as the planet has grown population, consumption, industry, etc. Much during the 1970s instruments focused on environmental analysis and legal regulation of conventional toxins like SO<sub>2</sub>, NO<sub>x</sub>, particulate matter and CO. This year environmental concern has been applied to micro or unsafe air regulation pollutants that are commonly poisonous and dangerous to small substances doses and those of nationally symbolized CO<sub>2</sub>-like contaminants. Apart from that. Environmental science advancement, industrial process growth and development new environmental issues have been caused by buildings[5]. Information on these substances and particulate matter and their effect has recently been presented on the climate and human bodies Dincer's :

A continually the number of toxins are protected by environmental issues, risks and loss of habitats in ever greater regions. The primary fields classified as follows are environmental issues:

- Significant environmental casualties
- Pollution of water
- Pollution from the sea
- Sustainable energy and clean energy evaluations
- Land usage and effects on position
- Radioactivity and radiation
- Elimination of solid waste
- Air pollution harmful

- Air efficiency environment
- Rain with acidity
- Ozone degradation of stratosphere, and
- Climate change of the world (greenhouse effect)

### *Acid rain*

This is a form of pollution degradation that produces pollutants fossil fuel combustion from both mobile and stationary sources in particular such as smelters, commercial boilers, and transport for nonferrous ores vehicles are pulled into the atmosphere and over great distances

earth-deposited environments that are exceptionally strong by precipitation excessive acidity vulnerable to injury. This deposition of acid rain was noticed to be traced primarily to SO<sub>2</sub> and NO<sub>x</sub> emissions and these gases react. In the atmosphere of water and oxygen contributing to sulfuric and other acids[6].

### *Acids Nitric.*

Stratospheric ozone depletion the presence of ozone in the stratosphere is well established approximately 12 and 25 km altitudes play a natural and healthy function for the earth, radiation by UV (240±320 nm), and by absorption. Infrared radiation absorption. A global environmental problem is stratospheric ozone layer distortion and regional loss emitted by CFCs, halons (chlorinated and haloned) demonstrated organic brominated ingredients) and NO<sub>x</sub>. Just partial (direct or partial) behaviours related to energy and non-energy indirectly) the pollution that contribute to stratospheric ozone the vulnerability. CFCs used in air conditioning and ventilation applications as refrigerants and as blowing agents in foam insulation and pollution of NO<sub>x</sub> generated by the combustion of natural fossil fuel and biomass the most important role in denitrification, nitrogen fertilizer and aircraft are evaporation of ozone[7].

### *Global climate change*

The word greenhouse effect was used for the function of the entire atmosphere (mainly water vapour and clouds) to preserve the soil earth wet, the contribution of CO<sub>2</sub> is progressively related (Actually, it is estimated that about 50% of the anthropogenic CO<sub>2</sub> contributes to Greenhouse and greenhouse). But other gases, including CH<sub>4</sub>, CFC, halons, N<sub>2</sub>O. Industrial-generated ozone and peroxide nitrate (so-called greenhouse gases) and domestic practices can aid in this e-commerce, which can lead to an increase in temperature of the Planet[8].

## CONCLUSION

The use of green energy resources is directly linked to sustainable development. sustainable development. To achieve or aspire to achieve sustainable communities the creation of renewable energies should be committed to renewable energy resources. Furthermore, there should be environmental issues touched. There are a variety of environmental challenges facing us today. There are the following: The issues cover an ever rising number of toxins, threats and risks degradation of the ecosystem in ever greater regions. Acid is the most symbolic can't rainfall, stratospheric loss of ozone and global climate change. The most serious pollution issue in energy. The greenhouse e penetrating is used. Rising levels of the

atmosphere. The way these gases trap heat is enhanced by greenhouse gas radiated from the surface of the earth, raising the temperature of the planet and as a result, the sea level rose. A secure supply of energy supplies is important for sustainable growth, is available at affordable cost and can effectively and sustainably in the long run. Usage without adverse societal consequences for all tasks needed. Source of fossil fuels (coal, oil and natural gas) and energy supplies uranium is commonly known as other sources of electricity, such as in general, sunshine, wind and falling water are known as sustainable and thus, it is relatively long-term viable. Renewables and innovations are the secret to leveraging them.

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