



ISSN 2454-1974

THE RUBRICS

Journal of Interdisciplinary Studies

International, Peer Reviewed, Indexed

www.therubrics.in

One Day Multidisciplinary International Conference On
**Global Perspectives in Higher Education:
Issues, Challenges and Remedies**

9th March 2024



Volume 6 Issue 2

Conference Proceeding: Special Issue Editors

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Published by

Magnus Publishing & Distributors

Renewable Energy Solutions for Fossil Fuel

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Introduction:

Renewable energy is energy derived from natural sources that are replenished at a higher rate than they are consumed. Sunlight and wind, for example, are such sources that are constantly being replenished. Renewable energy sources are plentiful and all around us. Renewable energy technologies have made significant progress in recent years, but ongoing research and development continue to drive innovation and improve efficiency. Emerging technologies are paving the way for a future where renewable energy plays a dominant role in meeting our energy needs while reducing our carbon footprint.

Emerging technologies in renewable energy have the potential to address some of the challenges associated with clean energy production, such as intermittency, storage, and grid integration. They offer solutions that improve the reliability, scalability, and cost-effectiveness of renewable energy projects, accelerating their adoption and impact. Fossil fuels - coal, oil and gas - on the other hand, are non-renewable resources that take hundreds of millions of years to form. Fossil fuels, when burned to produce energy, cause harmful greenhouse gas emissions, such as carbon dioxide.

Generating renewable energy creates far lower emissions than burning fossil fuels. Transitioning from fossil fuels, which currently account for the lion's share of emissions, to renewable energy is key to addressing the climate crisis. Renewables are now cheaper in most countries, and generate three times more jobs than fossil fuels. Present study undertaken to review of renewable energy resources.

Methodology:

Present study was reviewed on the renewable energy by using secondary data analysis approach, utilizing data from books, journals, governmental agencies, research institutions, and academic studies.

Result :

Fossil fuels are the fuels formed by natural processes such as decomposition of dead and buried organisms. Fossil fuels are a non-renewable source of energy. Most of the energy used by us is obtained by the burning of fossil fuels. These fossil fuels are used up at a faster rate. They cannot be regrown at a scale compared to their consumption. With the increased demand for the production of various energies, fossil



fuel energy is declining. It is difficult to replace them. That is why they are known as a non-renewable source of energy.

Advantages of Fossil Fuel :

- Fossil fuels can generate a large amount of electricity at a single location.
- They can be found very easily.
- They are cost-effective.
- Transportation of oil and gas can be done easily through pipelines.
- They have become safer over time.
- Despite being a finite resource, it is available in plenty.

Disadvantages of Fossil Fuel :

- Fossil fuels emit carbon dioxide when burnt which is a major greenhouse gas and the primary source of pollution. This has contributed to global warming.
- They are a non-renewable resource, i.e., once used they cannot be replaced.
- Combustion of fossil fuels makes the environment more acidic. This has led to unpredictable and negative changes in the environment.
- Harvesting of fossil fuels also causes fatal diseases among the people. For eg., the coal miners often suffer from Black Lung Disease. The natural gas drillers are constantly exposed to chemicals and silica which is dangerous for their health.

Fossil fuels are a dead end for environments and economy. For preventing environmental damages only sustainable energy sources are renewable energy sources.

Here are a few common sources of renewable energy:

1. SOLAR ENERGY

Solar energy is the most abundant of all energy resources and can even be harnessed in cloudy weather. The rate at which solar energy is intercepted by the Earth is about 10,000 times greater than the rate at which humankind consumes energy.

Solar technologies can deliver heat, cooling, natural lighting, electricity, and fuels for a host of applications. Solar technologies convert sunlight into electrical energy either through photovoltaic panels or through mirrors that concentrate solar radiation. Although not all countries are equally endowed with solar energy, a significant contribution to the energy mix from direct solar energy is possible for every country.



The cost of manufacturing solar panels has plummeted dramatically in the last decade, making them not only affordable but often the cheapest form of electricity. Solar panels have a lifespan of roughly 25 years, and come in variety of shades depending on the type of material used in manufacturing.

2. WIND ENERGY

Wind energy harnesses the kinetic energy of moving air by using large wind turbines located on land (onshore) or in sea- or freshwater (offshore). Wind energy has been used for millennia, but onshore and offshore wind energy technologies have evolved over the last few years to maximize the electricity produced - with taller turbines and larger rotor diameters.

Though average wind speeds vary considerably by location, the world's technical potential for wind energy exceeds global electricity production, and ample potential exists in most regions of the world to enable significant wind energy deployment. Many parts of the world have strong wind speeds, but the best locations for generating wind power are sometimes remote ones. Offshore wind power offers tremendous potential.

3. GEOTHERMAL ENERGY

Geothermal energy utilizes the accessible thermal energy from the Earth's interior. Heat is extracted from geothermal reservoirs using wells or other means. Reservoirs that are naturally sufficiently hot and permeable are called hydrothermal reservoirs, whereas reservoirs that are sufficiently hot but that are improved with hydraulic stimulation are called enhanced geothermal systems. Once at the surface, fluids of various temperatures can be used to generate electricity. The technology for electricity generation from hydrothermal reservoirs is mature and reliable, and has been operating for more than 100 years

4. HYDROPOWER

Hydropower harnesses the energy of water moving from higher to lower elevations. It can be generated from reservoirs and rivers. Reservoir hydropower plants rely on stored water in a reservoir, while run-of-river hydropower plants harness energy from the available flow of the river.

Hydropower reservoirs often have multiple uses - providing drinking water, water for irrigation, flood and drought control, navigation services, as well as energy supply. Hydropower currently is the largest source of renewable energy in the electricity sector. It relies on generally stable rainfall patterns, and can be negatively impacted by climate-induced droughts or changes to ecosystems which impact rainfall patterns.

The infrastructure needed to create hydropower can also impact on ecosystems in adverse ways. For this reason, many consider small-scale hydro a

more environmentally-friendly option, and especially suitable for communities in remote locations.

5. OCEAN ENERGY

Ocean energy derives from technologies that use the kinetic and thermal energy of seawater - waves or currents for instance to produce electricity or heat. Ocean energy systems are still at an early stage of development, with a number of prototype wave and tidal current devices being explored. The theoretical potential for ocean energy easily exceeds present human energy requirements.

Conclusion :

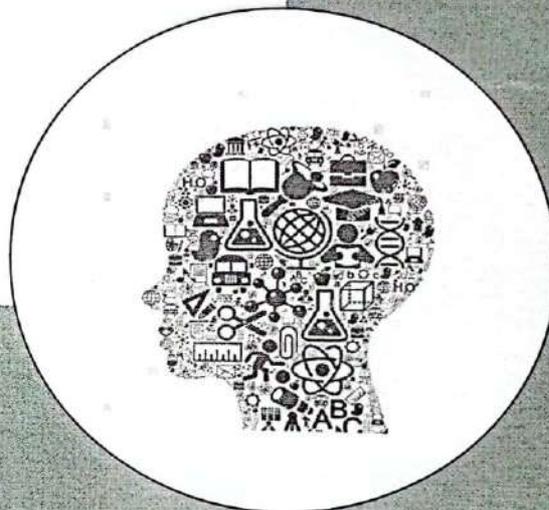
After critically reviewed about non- renewable energy i.e. fossil energy source and renewable energy source clearly indicated that a the necessary action should be taken to replace non- renewable energy i.e. fossil energy source.

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ISSN No 2347-7075
Impact Factor- 8.141
Volume-5 Issue-23

**INTERNATIONAL
JOURNAL of
ADVANCE and
APPLIED
RESEARCH**



Publisher: P. R. Talekar
Secretary,
Young Researcher Association
Kolhapur(M.S), India

Young Researcher Association



The Impact of Digital Media on Human Life

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Abstract:

Digital media become a necessary part of human life and seen various new applications and developed a new field of "Digital Media". The impact of digital media is quite noticeable in our Human Life and it has both positive as well as negative effects. Positive effect is responsible for the betterment of human life whereas negative impact affects the health, such as weight gain due to the continuous use of digital media in corporate world and cognitive development of the childhood affects reading ability, analytical thinking, remember things, and results in slow learner. Surely digital media has its positive as well as negative effects on human life but the negative effect of digital media is causing serious problems for human life in the article, but we casually watch the benefits of man's best invention and digital media.

Keywords: digital media, virtually, Impatience, Cognitive Development.

Introduction

The internet has man's greatest innovation since last decade, created the computer-generated world that can be credited as a titanic human accomplishment. Now the various devices supports its usage, it's in everyone's reach. And even as we speak of devices, there have been several innovations in both software and hardware. No one can deny the fact that the impact of digital media is quite noticeable in our Human Life and it has both positive and negative effects.

Where our day-to-day activities became dependent on it whether it is entertainment or learning. It became our most important need to traverse this world more powerfully. We see a new smartphone, or a new laptop with an up-gradation quite often. So with all that digital media around us, the biggest question is how does it impact us? How does it impact our society, the next generation, or even our life?

Methodology:

Present study was reviewed on the digital media by using secondary data analysis approach, utilizing data from books, journals, governmental agencies, research institutions, and academic studies.

What is Digital Media

Digital media is a way to express opinions or ideas in digital form through digital devices. It is a rapid, easy, and effective way of communication and circulation of the content. This includes text, audio, and video that are transmitted over the internet or through other digital media i.e. television, radio, Internet etc.

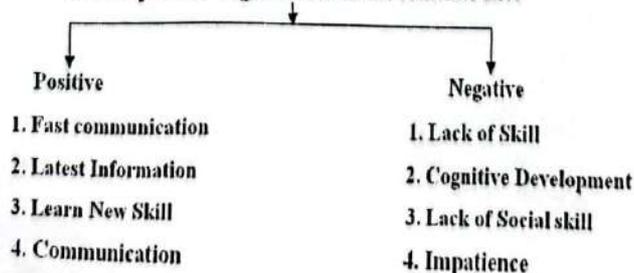
Digital media content can be created, distributed, and transmitted via digital devices, which is different from traditional methods.

Impact of Digital Media on Society

The Human life has picked up the speed, everyone is just too busy. One cannot simply afford to lose a day's without updated. As we know the world changes daily, there is always changes and up gradation in all matters happening in the world and the electronic devices which are connected to the internet constantly gives us the updated information and it is not just restricted to the internet.

All the applications and multimedia stored in the device's storage and drives keep us engaged all the time. It has both a negative and positive effect on human life.

The Impact of Digital Media on Human Life



Positive Effects of Digital Media Provides Fast Communication

Before the development of Digital media previous the mode of communication such as telegram, Letters from Indian post which are lengthy, costly and time consuming at that time but nowadays it becomes very fast due to Digital media due to developed internet facility.

Update to Latest Information

The digital media creates importance in the field such as journalism and mass communication. In a modern and speedy world, it is dynamically used for broadcasting channels to get maximum coverage. For instance, if you're a fan of cricket and due to your office work cannot follow all the important matches but you notify all live updates on your smartphone or you can record the complete match as per your convenient time you watch it.

Helps to Learn New Skills

The internet has been a blessing since its beginning for learners, now if you have a smartphone or any other digital device connected to the internet. Then you can learn anything from recipes to trading in share markets, you just need interest and continuity in your efforts. Most importantly it is self-esteem and you can choose from the learning resource available on digital media.

At the time of covid-19 digital media plays important role in the field of education to engage the student through digital media such as Google meet, Zoom meet. When it comes to interactive learning that is actively used in modern education structures.

Digital media enriches a child's learning process. Even with digital devices, user interface and interactive applications support to develops many skills. And we all know that an interactive application is much better than a book.

At the critical time of covid-19 digital media plays very important role to remain connected virtually with their friends and family members.

Fast Communication

Anyone can shares their information and experiences with everyone around the world with the help of digital media. Nowadays social media platform like Facebook, Tweeter are more popular to communicate with more number of people results in to meet diverse people at one place.

Due to digital media it becomes very easy to raise their voice against various issues, while buying the product from various platforms like Amazon, Flipkart people directly communicate with the seller.

Negative Effects of Digital Media

Lack of Skill

Though there is a vast use of digital media and people uses it for their important purpose but near about 40 % old generation are having lack of skill to operate digital media. Also there is a very real fact

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that current and future graduates are not able to maintain developing needs of technical zone and lacks digital skill more widely so there is a deadly mixture of long term and short term risks associated with the shortage of digital skill.

Impatience

The continuous use of digital media, quick information and updates also increases impatience in our daily life and that results in decreasing ability to focus on a task that require continuous attention. The use of digital media has also made us more dependent on it. which results in increase in impatient.

Lack of physical exertion

In the world of digital era use of digital media is too much leading to inactivity, which is the main cause of increasing weight of human and increased in weight is dangerous for human health i.e. it increases the risk factors for heart attack and diabetes.

Cognitive Development

Nowadays Childrens are using digital media (Devices) continuously in their early development causes significant effect on their cognitive development. With excessive use of digital media causes affects reading ability, analytical thinking, remember things, and results in slow learner. To avoid above facts, we must give more attention on children that they avoid excess use of digital media or use of digital media should be moderate for mental and physical health

Conclusion

Surely digital media has its positive as well as negative effects on human life but the negative effect of digital media is causing serious problems for human life in the above-mentioned article, but we casually watch the benefits of man's best invention and digital media. Apart from that, digital media's impact has been worthy to take note of. It has not only provided a new aspect to our lifestyle, but has also lead to the development of communication skills, and worldwide accessibility on one click.

Entertainment and Information is also provided by Digital media. We must agree that it allows no physical exertion that causes inactiveness and weight gain, results in increase in risk of heart and diabetes. But there have been applications and devices created for physical and fitness development. So the good rule for human is keeping a healthy balance between real and virtual life, we need to learn, how to use it effectively instead of getting used by digital media.

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Reg. NO:- MH/147/2021(22 Jan 2021) and F-30949 (08 Sept. 2021)

Date: -10th August 2024, Day-Saturday

Organized by

International E-Conference

On

*Current Scenario in Science and Technology, Environment, Agriculture,
Health, Water Resources, Social Science, Literature & Industrial
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CERTIFICATE

This is to certify that Prof. /Dr. /Mr. /Ms. *Prof. Sanjay Rama Supe*, Department of Computer Science, *Smt. V. N. Mahila Mahavidyalaya, Pusad Dist. Yavatmal Maharashtra* has participated in One Day Multidisciplinary International E-Conference on "*Current Scenario in Science and Technology, Environment, Agriculture, Health, Water Resources, Social Science, Literature & Industrial*" Organized by *Shri Vitthal Rukmini Arts, Commerce And Science College, Sawana* In collaboration with *Global Foundation, India* on Date: 10th August 2024, Day-Saturday

He/She has participated and presented a research paper entitled *The Impact of Digital Media on Human Life*

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