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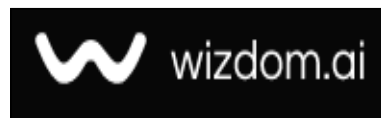
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Sectors Using, Necessarity and Benefits of Green Technologies

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Abstract. This article discusses about the Green technologies, sectors using green technologies and the benefits of green technology and the obstacles to overcome.

Keywords green technologies, necessity, green economy, benefit, smart.

Introduction

The word "green" in the term "green technology" indicates that it is directly tied to the environment. Green inventions are frequently associated with environmental inventions, such as energy efficiency, recycling, safety and health concerns, renewable resources, and so on.[1]

Green technology, often known as sustainable technology, has an environmental impact. Green technology makes use of recycling, renewable resources, safety, reduction, and reuse. Green technology, also known as clean technology, works using science and technology to safeguard the environment by balancing the ecosystem. It has been observed that businesses currently utilize more energy than is required, resulting in pollution. Green technology, also known as clean technology, aids in the development of technology that does not affect the environment. Green technology aims to conserve natural resources and protect the environment. To help the environment, green technology employs three mantras: reduce, reuse, and recycle. [2]

Green technology has several advantages, including the fact that it does not affect the environment, minimizes poisonous gas emissions into the environment, and is utilized to conserve natural resources. Green technology uses less energy than standard technology. Green technology's primary purpose is to decrease global warming and minimize greenhouse gas (GHG) emissions. [2].

Main Part

The primary purpose of green technology development is to mitigate climate change, maintain the natural environment, minimize our reliance on nonrenewable resources such as fossil fuels, and repair environmental damage. The green technology market is still in its early stages, but investment capital is already flowing in. While green technology is steadily becoming more prevalent in the present period, elements of this business strategy have been in use since the 18th and 19th centuries, when the Industrial Revolution was at its zenith.

Sectors Using Green Tech

- Energy sector: At the moment, the majority of the world's energy is produced through the combustion of fossil fuels. Green technology can be utilized to develop more sustainable alternatives to fossil fuels. As a consequence of their production, fossil fuels typically generate trash.

Because solar energy, wind power, and hydroelectric dams are cleaner and produce no hazardous consequences, they can be used instead of fossil fuels.

- Transportation: Vehicles driven by conventional fuels are a major contribution to global greenhouse gas emissions. As a result, many businesses are introducing "green technology" into transportation infrastructure and vehicles such as electric automobiles and compressed natural gas (CNG) buses. Waste Management Sector: Green Tech is also being used in waste management sector for transporting, storing and recycling of wastes.
- Green technologies are also applied in the waste management sector for transportation, storage, and recycling.

- Water filtration: Green technology is widely employed for water purification all over the world. Green technology can be used to cleanse contaminated water or extract salt from seawater to enhance the provision of safe drinking water in regions throughout the world when water supplies are restricted.
- Clean Air: Green technologies are also utilized to clean contaminated air by lowering carbon and gas emissions from industrial plants. [1]

The benefits of green technology and the obstacles to overcome

- Aids in the recycling and disposal of trash.
- It is environmentally friendly since it emits zero or fewer harmful materials into the environment.
- Green Tech maintenance is incredibly cost effective.
- Green technology aids in energy conservation.
- It also contributes to the restoration of our ecosystem's vitality. [1]

While there are many advantages to the use of Green Tech there are many hurdles in the way of Green Tech that first need to be cleared. We as a civilization grew largely depending on the fossil fuel as our main energy source. Statistics show that around 90% of our energy needs is fulfilled by burning fossil fuels. The shift from using cheap, energy dense and abundantly available fossil fuel towards environmentally friendly green tech will surely prove to be a major hurdle to cross. Widespread usage of wind and sun energy would surely help us to move away from relying on fossil fuels, but the expansion of wind and solar technologies will prove to be a difficult task because of the fact that the sun does not always shine and wind does not always blow. This unreliability can be solved by storing the energy generated and using when it is needed. Some of these green technologies, like tidal energy, can only be used at high tides, while geothermal energy can only be used in geologically unstable areas. New transmission lines will also be required to transport existing energy over the electric grid and to transmit wind and solar energy generated in the grasslands and deserts to cities and towns where it is needed. Although there are various barriers in the road of green technology, employing green technology will be worth what we do in the long run. [1]

Why Is Green Technology Necessary?

Green technology's primary purpose is to counteract global warming and lessen the greenhouse impact. The fundamental idea is to create breakthrough inventions that have no negative impact on natural resources. This will result in fewer harm to people, animals, and the overall health of our world. Our world is clearly beginning to choke on all of the rubbish we produce. But there is a method to make this problem substantially less if there is a will. Green technology will make a significant contribution to lowering emissions if it is used successfully. As a result, many developed and developing countries are already implementing this type of technology to help protect themselves from the negative effects of climate change.

Despite the fact that pollution is an old problem, green technology is a relatively recent concept. It is growing increasingly popular as people recognize that we are killing our planet. Green technology has become one of the fastest growing employment categories. And, because environmental protection has grown so crucial, green technology isn't just a passing fad. Pollution kills nearly 9 million people each year, demonstrating the necessity for green technology. Overall, green technology is required to mitigate environmental dangers and conserve natural resources. It will also ensure the use of clean, renewable energy sources in order to prevent the depletion of nonrenewable resources. [1]

Green technology is also attempting to develop alternative energy sources that do not

degrade crucial fossil fuel reserves. It is also critical to prevent global warming by reducing greenhouse gas emissions such as nitrogen and carbon dioxide. Green technologies such as solar electricity, fuel cells, wind power, and geothermal energy are used to accomplish this. Green technologies, in addition to renewable energy sources, provide approaches such as battery storage, green building, and metal foams. The usage of technology is already prevalent and steadily increasing over the world. Green technology, on the other hand, integrates technology with recyclable components. Such an initiative contributes to the creation of a pollution-free environment capable of supporting life.

Simply put, green technology is proven to be critical to human existence in the future. The bleak picture depicted by the effects of pollution and climate change necessitates and emphasizes the importance of such clean technologies. Green technologies also support biodegradable items, stimulate recycling, and promote the creation of sustainable building. It also significantly lowers emissions, slows global warming, and conserves natural resources. [1]

Conclusion

Pollution and our negative environmental externalities are on the verge of destroying our world. We must overcome all obstacles and continue to innovate in green technology. As we grow more aware of the environmental damage we are inflicting, the demand for green technology is at an all-time high. This increased awareness is driving the market to adopt new and improved green technology. The increasing desire for electric vehicles is an illustration of this demand. Many nations are investing in green technology as a result of the Paris Agreement. Going green becomes a huge chance for corporations to satisfy the population, so they purchase green technology to be viewed as champions of environmental sustainability. Overall, it is a win-win situation for the environment. Green technologies that are innovative and environmentally beneficial are progressively being embraced. [1]

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