

**Nuclear Energy is the Future**

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## **Nuclear Energy is the Future**

Stating that energy serves a crucial function in modern human society would be a colossal understatement. In essence, everything on this planet depends on energy either directly or indirectly. Over the past, various energy sources have been used to fuel the world and everything in it accordingly. Increased demand for energy has seen the natural reserves deplete gradually to deficient levels. As a result, the substitution of various energy sources has become a leading goal for most nations across the globe. Nuclear energy is a term that has found its way to the highest organizations both in government and private industries. Indeed, nuclear energy has been denoted as the future of the human community. This speech presents exciting facts regarding the use of nuclear energy and its importance to future human settings. As such, relevant stakeholders of the energy industry across the globe must make specific efforts to enhance the development and utilization of nuclear energy within human society now and in the future.

Nuclear energy is a clean source of energy as compared to other primary sources of energy. The process of fission achieves the generation of energy. In particular, the procedure involves splitting uranium atoms to generate energy within the contemporary energy sector (Saidi & Omri, 2020). The splitting of the atoms releases a lot of heat that is employed to develop steam. The steam generated is employed to spin turbines that generate electricity for consumption by the community. The production of energy using the fission process avoids the harmful products generated by fossil fuel production.

Besides, the promotion of the environment will serve as a critical requirement for future generations. In essence, the protection of such environments ensures that individuals and other living things enjoy natural resources. Increased human activity over the recent past has affected the status of the environment. Pollution of such surroundings has reduced the quality of life with increased air and water pollution (Mahmood et al., 2020). The current and future

human populations must make efforts to ensure that the environment is protected accordingly. The use of nuclear energy provides a significant avenue for achieving environmental protection. The population must ensure that it produces clean energy to protect the environment from degradation. A shift from the extensive employment of fossil fuels as a source of energy will ensure that the population achieves desired environmental status in the future.

Nuclear energy remains the future is that the power plants producing such energy operate at a high capacity and lower cost than other significant energy sources. In particular, nuclear power plants have fewer expenses than fossil fuels and other renewable sources once the plants are operational (Kok & Benli, 2017). The production capacity of nuclear energy is significant since the fission process produces a lot of heat employed to generate steam. The production process is straightforward, which increases the efficacy of operating at much higher capacity factors than renewable energy sources or fossil fuels. The utilization of nuclear energy in the future will ensure that natural resources are saved due to the high production capacity of nuclear energy. As such, stakeholders of the nuclear energy sector must operationalize various power plants in the future to take advantage of the reduced costs of production and increased capacity.

In conclusion, energy requirements in the contemporary human setting are enormous, and they will only surge in the coming days, months, and years. Appropriate energy sources must be identified to ascertain that the energy demand is met without adversely affecting the population. As such, relevant stakeholders of the energy industry must mobilise sufficient resources to ensure that enough nuclear energy power plants are created. The provision of relevant education on the need to employ nuclear energy as the primary source of energy in future is also a crucial action that must be undertaken. Nuclear energy is truly the best weapon for facing what the future holds. Bring on the future.

## References

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