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AKSHU PAREEK

9th - 'D'

Roll No. 9406

“Science and technology for a clean and green environment.”

The science of today is the technology of tomorrow. So, we are changing the world with technology for a better tomorrow. For a better tomorrow, we need a better economy and as the environment and economy are two sides of the same coin. If we can not sustain the environment, we can not sustain ourselves. So, for a better future, we need a clean and green environment. There are various issues such as water scarcity, energy depletion and global warming that are drastically affecting the environment. To solve the issue of water scarcity, science and technology have enabled the users to use water judiciously. It had allowed the users to remotely monitor the water flow with the help of one click on the web or mobile application and it also alerts the admin and the user in case of any water leakage. All this had been made possible with the development of Smart Water Metering Solution. There are various other advancements that have been made to overcome water issues such as waste water direct potable reuse, atmospheric water generation, and waste water nitrogen and phosphorus removal, among others. The increasing population is leading to generation of more issues to the environment such as pollution, collection of waste, and energy depletion, among others.

To combat such issues they need to be addressed in a way that if complete elimination of the toxic substance is not possible then we atleast have a minimal concentration in the environment.

A technology known as Waste to Energy had been developed with an aim to benefit the society by reducing the waste and also overcoming the issue of energy depletion. Waste to Energy technique is developed in a way where the garbage or trash is burnt to produce steam in a boiler that can later be used to power an electric generator turbine.

With an aim to ease the processes, we have led to an increase in the industrialization causing emission of high carbon into the environment which in turn is leading to the increase in global warming and its harmful effects such as melting of glaciers, forest fires, etc. For reducing the major carbon emission, a technology known as Carbon Capture and Storage is developed which comprises of capturing the carbon dioxide produced by industries and other sources, transporting it and then storing it deep underground.

The applications of science and technology does not limits here as various other technologies have been developed for the generation of a clean, green and safe environment. Its not only the science and technology applications, but we all should contribute in the construction of a clean, green and safe environment as this is the place where we all meet, we all have a

mutual interest and the one which we all share. So, this is the responsibility of all of us to develop a clean and green environment