

# CONSERVATION OF ENERGY DUE TO ITS TENDENCY OF TRANSFORMATION FROM ONE FORM TO ANOTHER

ABHISHEK ANAND LAL

Student, B. Tech

UPES, Bidholi, DEHRADUN-  
248007

abhisheksinghania31@g  
mail.com

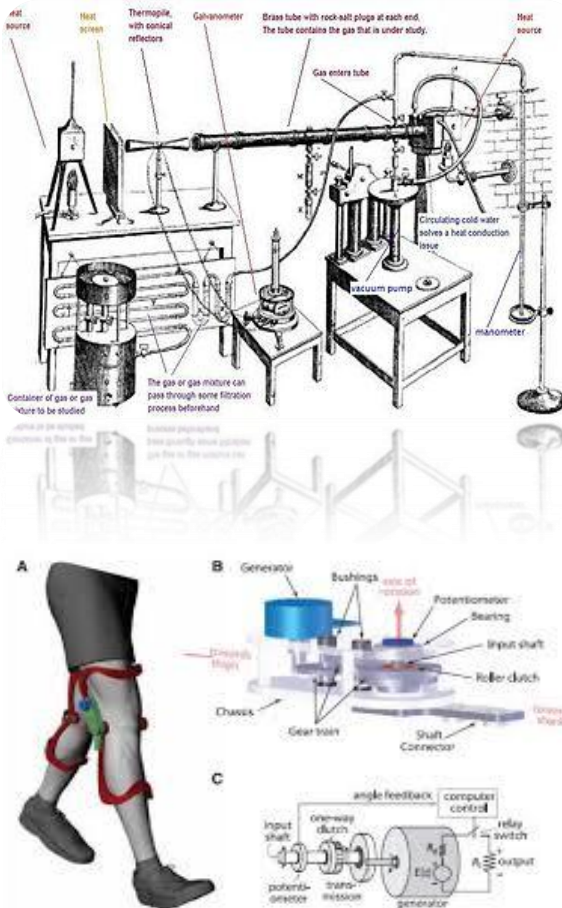


As we all know that energy can neither be created nor be destroyed. Concept of energy is already an answer to our biggest question of all time like how one can conserve energy? Or how a machine can give maximum output in little amount of consumption of energy? If energy never been destroyed, it means that the energy that is being consumed due to use of that form of energy for the working of some mechanism, if the lost energy by somehow we bring it back in the same form of energy then energy will never be exhausted and one can use that energy for their purpose throughout the life time. This kind of energy is known as reversible form of energy which can be transformed from one form to any other form according to the needs. But there is still a lots of field where scientist are unable to find out the solution of transformation.

To prove that energy can neither be created nor be destroyed, James Maxwell did an experiment a long time ago in which charcoal were burnt and water was stand there to heat it, Before warming up the water, he weighted the water and after heating, he got the weight of water less than the cold water because of some form of water were converted into vapor and after collecting the vapor, he got weight of warm water+ Weight of water leave in the form of vapor= Weight of water before heating.

From this experiment, we can say that energy can neither be created nor be destroyed and if we can able to convert the

energy from one form to another form then we can do anything we want. Perhaps this is hypothetical to think but in some case it is very real. Vehicle work because of engine which need some amount of energy to perform and that energy engine get it by the consumption of fuel hat may be solid, liquid and gas according to the need, and that fuel is manufactured by lots of process of chemical reaction to give fuel a good shape for energy transformation to takes place in vehicle and liquid fuel been converted into smoke and mixed into the atmosphere that may be solid, liquid and gas according to the need, and that fuel is manufactured by lots of process of chemical reaction to give fuel a good shape for energy transformation to takes place in vehicle and liquid fuel been converted into smoke and mixed into the atmosphere. In the same way our body also need energy to work and that energy comes from food which is solid and then converted into Blood that is liquid due to some phenomena and chemical reaction, so our body also suggest that one can convert one form to another form with the help of some chemical reaction and it might also be possible for us to conserve energy.



With the increasing age some kind of energy increases and decreases that's why whole scenario of our body changes.

Energy transformation play a very important role to change the whole scenario in the field of science and technology. Energy play a very important role to build a modern world.



Energy harvesting is the biggest example of it based on thermodynamics law. Many scientists has already said that the whole universe is just a big form of energy, every particles, atoms and every creature in this universe is nothing but a biggest form of energy and the only difference is that some is in liquid, some is in solid, some is in gaseous form. Some kind of energy has intelligence like human while other doesn't. Everything happens in this world is only due to the transformation of energy and if we become an expert in energy transformation, then we can achieve our needs in the field of science and technology. Our mind also work because of the energy transformation. Biologist also said that veins, nerves, blood, hormones, signal is nothing but a certain form of energy and we know that our mood changes according to the flow of hormones in our brain and body, so if we able to transform energy then we can also able to change our mood according to the needs and lots of mental health problems can also be cured.

Energy conservation can be done in various field. It is better to say that it can be done everywhere. Every living and non - living beings has some kind of energy stored in their body and that kind of energy is used to walk, talk, grow for the living beings and to maintain strength inside non living being. We require some amount of energy to break iron, bricks, aluminium, that says that these also contain some kind of energy stored in it that's why we require some amount of energy to destroy it.

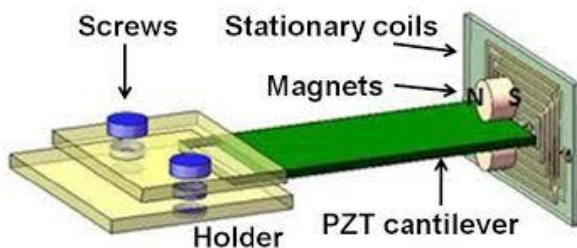
Everything in this universe is just a form of energy and nothing else, even we are some form of energy in solid form and after

Big bang theory suggests that despite the universe is expanding, the energy in the world is constant which prove the thermodynamics law that energy is constant and it can neither be created nor be destroyed. Tearing a paper also require some amount of energy and that energy provides tearing. Falling from a certain height also contain potential energy and kinetic energy, so physics already said that everything is a form of energy.

This conservation of energy from one form to another can be check with the help of chemistry where a lot of chemical reaction takes place. As for liquid we require two gases i.e. oxygen and hydrogen and the solution of energy transformation can only be implemented through the research of lots of chemical reaction which can convert lost energy into same form. This will be able to conserve energy and one can need a single drop of petrol to drive vehicle if one can able to convert smoke which injected due to use of fuel into the same form i.e. petrol.

In physics, the law of conservation of energy state that the total energy of an isolated system remains constant, it is said to be conserved over time. Energy can neither be created nor be destroyed; rather, it transforms from one form to another. For instance, chemical energy can be converted to kinetic energy in the explosion of a stick of dynamite.

Sir Albert Einstein said the same things in his most important energy equation  $E=mc^2$  where he concluded that mass can transform into energy and energy can transform into mass, and if it happens then nothing will be impossible in future.



death this solid form been converted into soil and liquid and we cannot able to notice that. If we look ourselves then we can see that how our body structure changes from child to adult, This is happens only due to the transformation of energy and if we can able to restore the energy in the body which was at the time of childhood then we can never get old.



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