



## Saving of Electricity: Necessity of Time

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**Abstract :** Electricity is the greatest invention of our time because electricity plays a very important role in our lives today. By inventing electricity, scientists have done a great favor to mankind because today everything runs on electricity and most humans use more and more electricity in their lives. Electricity is considered a very big and powerful source of energy. Nowadays people can't even think of their life without electricity because nowadays small things can be done with the help of electricity. Hence electricity is an important contribution in our life. In this paper we are focusing on saving of Electricity.

**IndexTerms** - Electricity, Electrical Energy, Saving Electricity, Saving Energy

### 1. INTRODUCTION

Science has made many inventions, but the most important invention is the invention of electricity. Because there are many other inventions which are made possible only using electricity and these are the inventions that we use every day. The use of electricity has made human life very easy. Electricity has given us radios, televisions, fans, lights, computers to make work easier, entertainment devices and many other conveniences. Electricity acts as a faithful servant for us. When the switch is opened it starts working and when it is closed it stops working. Despite its importance in human life, we use it recklessly. It is not a tool that will be available non-stop. Electricity is mainly made from water.



So it is produced only to a certain extent and it is also necessary for everyone. But due to the misuse of some people, many people are not able to use it properly. We should switch off electrical appliances when not needed and plant as many trees as possible to conserve water so that every person can use this facility. Only if we save electricity, we can save this planet.

Hearing all this electricity, a sigh fills our ears that if there is electricity, then everything is there. Electricity is a great gift given by scientists in our life because today's lifestyle is completely dependent on electricity.

As we do not know how electricity is generated, how much electricity is used daily, we never think about saving electricity in our life. We are also taking full advantage of electricity and have completely left our lifestyles on electricity.

Without thinking about the future of electricity we are using more and more electricity in our lifestyle, and this could be a very difficult moment for mankind going into the future.

If the amount of electricity decreases in the future and we continue to use electricity in the same way, we will have very less electricity in the future and it will be a very difficult moment for our life because we have become accustomed to electricity. Electricity is going to be needed every moment, so if we start saving some electricity from now, our future will also be good for electricity.

The future of electricity can be very bright if we use enough electricity in our homes. If we turn on the light in our house only when we need it, turn on the fan and only then turn on the television, and when we do not need all of them, we should turn them all off and use as little as possible.

In the modern era electricity has become an integral part of everyone's life, life without it is unimaginable. Man depends on electricity for all his functions. From drinking hot water in winter to sleeping in cool air in summer, from eating to moving anywhere, we are surrounded by electrical devices and depend on them for every task.

Humans have made great progress due to electricity, but at the same time, electricity is being used indiscriminately, so the generation of electricity is going to decrease in the future, so life will be dark again.

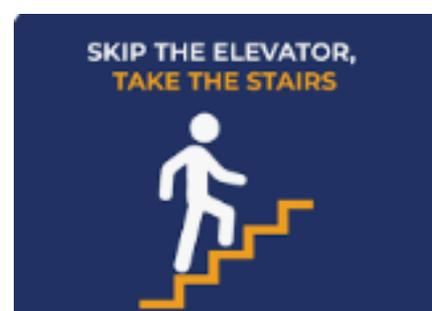
Electricity is vital to us and it is a huge source of energy that needs to be conserved. Excessive use of electricity has an adverse effect on the environment. It is also necessary to save electricity to protect the environment. Saving electricity will reduce bills and save money. We have limited power generation resources like coal which are wasted once used.

If electricity continues to be used unnecessarily, these limited resources will be exhausted and there will be no electricity generation in the future, so it is necessary to save electricity now and use it efficiently. Due to the indiscriminate use of electricity, coal and water are also running out, thus creating many problems, all of which can be solved by saving electricity.

2 most severe blackouts happened in India on 30th & 31st July, 2012 which affected almost North & East India. Near about 400 million individuals were suffered through power outage on 30th July 2012 & it was more severe than blackout occurred in January 2001 in North India (230 million people were affected) [1][4].

## 2. SAVING OF ELECTRICAL ENERGY

Everyone can do the work of saving electricity at their own level. Some people sit with lights on even during the day, when the sunlight is full, so we should turn off the lights during the day. LED tubes should be used instead of bulbs in homes that consume less electricity. Lights and fans should be turned off when not in use. You should not use old electrical appliances as they consume more electricity than new appliances.



We need new sources of energy like solar energy, in which the sun's energy can be collected during the day and used in the form of electricity at night. In our Institute we have installed 8KW Grid Tied Rooftop Solar System on library building & generated electrical energy is using in same building without any storage [2]. Here we used this information and developed a system to take data from web and display it on screen in the campus. Also the information is stored in excel file and analysis is done to predict the generation of solar energy based on time, day and season[3]. Wind energy from which electricity can be generated should be used. Instead of using electric induction cookers, only gas should be used for cooking at home. In summer clothes should be dried in sun instead of dryer. Children should be taught the importance of electricity in schools and homes and should be taught the habit of switching off unnecessary running fans and lights to help them save electricity.

We should use more natural light and clean air to protect our environment and also provide us with electricity for the future. For this we should all work together and make the future brighter.

We all have been using electricity continuously in our homes for many years, but we don't know whether we will get the same electricity in the future or not because so much electricity is used in our country and outside the country. It is being done to get electricity in the future.

We should use electricity in our life but we should also save electricity and we should also remember that we can save it easily. Without worrying about the future of electricity, we use more and more electricity in our lives, which may lead to less electricity later on.

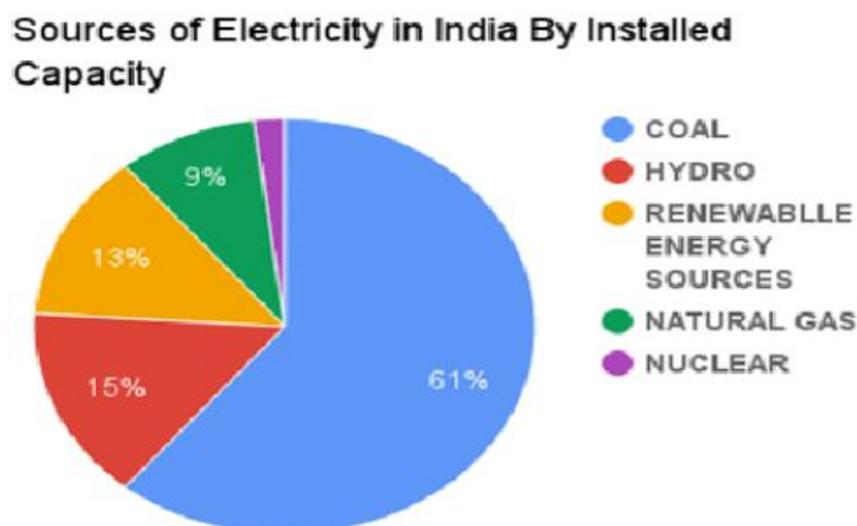
We should make our life simple because before there was no electricity, people used to live their lives very well, but nowadays the more electricity we get, the more we use it. Together we can save electricity.

Earlier, when there was no electricity, people used lamps, lanterns to light up their homes. Which did not consume that much electricity at that time and saved a lot of electricity at that time. By using less electricity we can save our lives in many other ways.

Things like lights, fans, TV coolers, refrigerators etc. in our house keep on even when you don't need it in your house, so a lot of electricity is wasted. If we use a minimum of all of them, we can save as much electricity as we need and we should turn on the bulbs of our house whenever we need light and when we feel too much heat and if we don't have the opportunity. Go out, then you should turn on your house fans, otherwise you should always keep them off.

If we start using windmills, we can save more electricity in our life. Now our technology has advanced so much that now the sources of electricity like solar panels are also available in the market. By using all of us, we can save electricity as much as possible in our daily life and routine, so that in future the electricity sources will not run out and thus we will continue to get electricity regularly. If we use electricity in our life using our intelligence, we can save a lot of electricity. Saving electricity is not a very difficult task, but now we have become dependent on electricity in such a way that we cannot live without it.

India currently has a total renewable energy capacity of 168.96 GW (as on 28<sup>th</sup> February 2023) with about 82 GW at various stages of implementation and about 41 GW under tendering stage. This includes 64.38 GW Solar Power, 51.79 GW Hydro Power, 42.02 GW Wind Power and 10.77 GW Bio Power.(source- <https://www.pib.gov.in/PressReleasePage.aspx?PRID=1913789>)



Source [5]

### 3. CONCLUSION:

Today we all depend on natural resources, but they are limited, so we all must take initiative to save them. You too save electricity and inspire others to do the same. Electricity is very important for our happy future and we should understand its importance. If the consumption of electricity continues like this, the electricity rates per unit will continue to increase. Electricity will be available even where it is still dark by saving electricity. Save electricity, only then we will continue to get electricity in future, otherwise one day our life will run out of source of electricity.

### 4. REFERENCES

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