

# River Water and Electricity

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**Abstract:-** In our day today life electricity is of a great use to meet demands for the day today hydropower project are being build. There are many methods to generate electricity in this paper we will discuss about generation of electricity using river water.

**Keywords:-** Electricity, Generator, Turbine Etc.

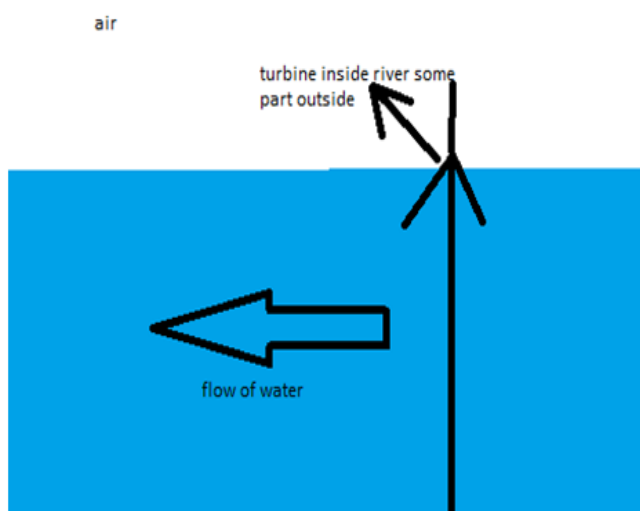
## I. INTRODUCTION

Electricity is a form of energy resulting from the existence of charged particles (such as electrons or protons), either statically as an accumulation of charge or dynamically as a current.

**Electricity generation** is the process of generating electric power from sources of primary energy. For utilities in the electric power industry, it is the stage prior to its delivery (transmission, distribution, etc.) to end users or its storage (using, for example, the pumped-storage method).

A **generator** is a device that converts motive power (mechanical energy) into electrical power for use in an external circuit. **Turbine** is a machine for producing continuous power in which a wheel or rotor, typically fitted with vanes, is made to revolve by a fast-moving flow of water, steam, gas, air, or other fluid.

## II. ELECTRICITY GENERATION THROUGH RIVER WATER



As shown in the figure let us consider a turbine half part of which is inside the river and a half part of which is in the air. Let us consider 3 valves of turbine at 120 degree angles as shown in the figure.

The water will push the blades and the rotator of turbine will rotate by using a electric generator we can derive electricity from it. There will be a imbalance by which turbine will rotate the mechanical power of turbine generator will turn in electricity hence electricity will be generated. Using light weight blades will generate more electricity.

## III. CONCLUSION

It concludes that electricity generation will be done which will be further used at various places which will make ease in our day today life it will also lead our earth towards development.

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