



## **FUELLESS ELECTRIC GENERATOR**

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### **Abstract**

Electricity is assuming a significant part in our everyday life. The point of selecting this project is to make an elective thought for making electricity with less cost. So we pick 'FUELLESS ELECTRICITY GENERATOR'. The need for new energy sources had prompted various other options, which have been unreasonably expensive and inaccessible because of enormous cost and scarcity. In reaction to this, Fuel less generator was planned and created using local materials. The driving component of fuel less generator is the 0.5 HP alternative current motor, powered by a 12 volts battery, which spins the 0.65 KW alternator to deliver electricity, while recharging the battery by means of a diode. The fuel less generator has an output of 0.70KVA; it is without contamination and eco-accommodating.

Keywords: Fuelless, Generator, electric, alternator, inverter.

### **1. Introduction**

In our technical education the project work assumes a significant part. Every students put in to reenacted life especially where the under study required to bring his insight, ability and experience of the project work [1]. It encourages how to develop particulars under give compels by systematic way to deal with the issue build a world device [2]. Project work thus integrates different abilities



and information fulfillment during study and gives direction towards application [3]. As the under studies tackle the different issues uncovered by the projectwork, the under studies get the certainty to beat such issues in the future life. It helps in growing the reasoning and choices for future applications [4].

## **2. Methodology**

The starting current is given to the air conditioner motor to run the alternator and energize the alternator to deliver current. At the point when the alternator creates the current. The current 220v is changed over in to 12v by utilizing the diode, the changed over current is supplied to the battery for charging [5]. The current from the battery goes to the inverter (UPS) which changes over the 12v dc into 220v ac and goes to the air conditioner motor and runs the motor. Therefore there become the cycle course in the circuit.

The freshest and most encouraging renewable energy technology competes the modules of 5000watts while fuel less engine could be planned and with self-charging competing with self charging inverters is the fuel less engine though costlier than the latter. The self-charging inverters could be constructed to the 66% of the 500hp (373kw) capacity of the AC motor that drives the alternator subsequently creating 333hp (248.7kw) output was observed that the output stays steady regardless of the quantity of the batteries utilized starting from 1 or 2 batteries in series to deliver 24 that drives the dc motor despite the fact that utilizing 2 number of 200AH profound cycle batteries drives the DC motor quicker than utilizing 2 number of 100AH profound cycle batteries.

When the pace of discharging the batteries is equivalent to the pace of charging the batteries then the output voltage stays consistent and the fuel less engine could



work 365 days with no interruption. This is an ideal renewable energy source. The source of energy comes from inside the domain of physics however there is an Opposing challenge to the 1<sup>st</sup> law of thermodynamics which is generally generate electricity out of this fuel less engine has been tried and proved reliable and steady referred to as principle or law of conservation of energy. The figure 1 shows the electric wiring diagram.

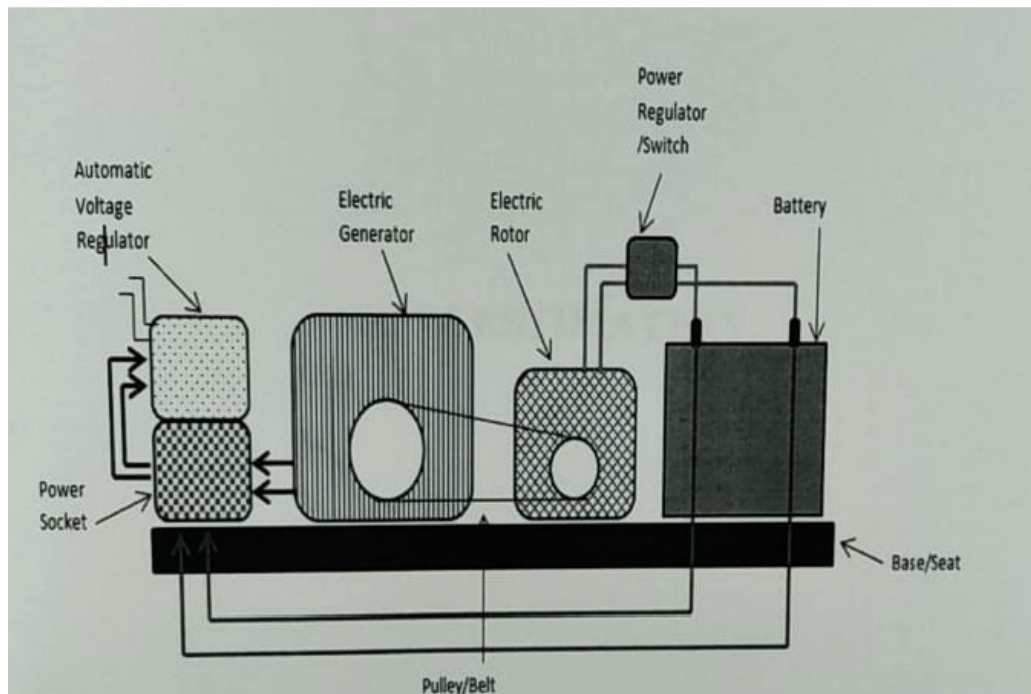


Figure 1: Electric wiring diagram.

A. On Road The fuel less engine can supplant the diesel engines utilized in by far most of present day hefty road vehicles like trucks, transports, significant distance trains, huge scope compact power engines and most ranch and mining vehicles.



B. On air Both the petrol and diesel engines utilized in air planes can be supplanted with fuel less engines.

C. On Water Fuel less engines can supplant the rapid engines tha are utilized to power yachts, ships and lines along the high oceans.

D. Under Ground Fuel less engines can likewise supplant diesel powered engines that are utilized by mining and mineral extraction area worldwide to saddle normal resources like total valuable metals, iron metal, coal and oil gas.

E. In Hospitals: Fuel less engines can supplant emergency backup generators that should be made accessible for any significant medical health care offices because of basic nature of work

F. Behind Data Centers: Fuel less engines can be utilized to power computers, the core of the present industry. At the point when servers and systems go dower communication can be lost, business stops, data is lost, laborers sit inactive and pretty much everything stops.

### 3. CONCLUSION

The requirement for new energy sources had prompted various options with their specialist getting teeth significant expense issues. Nonetheless, later on, if the technology is additionally evolved and accepted the costs will decrease to compete sensibly with those of generators. Fuel less engine is a renewable energy source with immaterial CO<sub>2</sub> emissions when sparking happen at the batteries terminals because of fractional contact when wiring.

Generally, the fuel less engine potentials can be used by merely replacing all the generating sets electric or fuel powered motors, with dc motors and satisfactory



chargers. The project completed by us will make an intriguing imprint in the field of mechanical and electrical. This project has likewise decreased the cost involved in the worry. The project has been intended to perform the required task taking least time. We are effectively finished the project work "FUEL LESS ELECTRIC GENERATOR". We like to thank the directorate of technical education (DOTE), for giving us the freedom to acquire the pragmatic information in the engineering field by doing this project function as part of our educational program.

In execution this project we were presented to numerous issues and troubles confronting such challenges are solved through issues addressing technique. This gives us extraordinary certainty and courage which are essential for progress engineer.

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