



# Easy renewable energy science projects

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In today's world, we are facing scarcity of Electricity. Generally, in lots of places in INDIA and SOUTH AFRICA, some villages are not getting electricity. In that way, you might be thinking about the hydropower or wind or solar but there is something crazy about generating electricity through industrial machine sounds or sound produced by the crowd in stadium or vehicle traffic noise. Sounds cool right! SLNOTE

In today's modern world we have ample amount of facility which can satisfy above our basic need, unfortunately this condition is not satisfied everywhere in countries like Kenya, India where millions of people don't have electricity to lighten their house even renewable energy(wind, solar, water) are hardly available at some places and they are using harmful fuels like kerosene to power their house spending 20% of their income. What is the solution?

Humans are harvesting energy in wonderfully different ways, which means they think a lot to innovate something which is helpful to society. It's not easy to think about the alternative energy apart from solar, hydro, biogas. Renewable energies are the best alternative energy in today's world. We are generating power through nature by converting heat/pressure/kinetic energy into electrical energy in a more effective way.

DronDrones are something we call as UAV(unmanned Aerial Vehicles) an aircraft without an human pilot. UAVs are basically an ground controlled system means they are fully Autonomous. Application of Drones are expanding from commercial, scientific, recreational, agricultural, and other applications can be used in Landways, waterways, airways or in space.

A new wind turbine generator system (WTGS) is introduced, and its mathematical model, blade pitch control scheme, and nonlinear simulation software for the performance prediction are presented. The notable feature of WTGS is that it consists of two rotor systems positioned horizontally at upwind and downwind locations, and a generator installed vertically inside the tower.

It's all about generating energy from people's footsteps. Every time the people walk we are capturing that kinetic energy and turns into electricity the more people walk moreover we can create. Well, it's not just about the power it's about power data and engagement. You can generate 10 seconds of light from one foot. We don't want any large transformer for generating power. Yes, this creation is helpful for human resources. It requires no natural resources.

Adventure come with obstacles. Life is full of adventure but now where ever you go you phone is always with you or some other electronic devices which helps you to keep in touch and you find your way but these devices need to be charged. It's also very important to be hydrated in this adventurous life. But what if clean water is not available any solution?In this project you are going to make an innovative model with battery pack having USB connection and which also purifies water.

Noise is basically an unwanted sound(>90db)One more type of pollution that harms the environment and living entities in a big way is Noise pollution. It's a machine created unpleasant noise which disrupts the human or animal life construction, transportation, railway, aircraft noise. these increase in high-pressure waves can cause you high blood pressure, headaches, hypertension.

Water is the bases of life and only a tiny share of water all the water on earth is fresh and renewable. More than 97% of water is salty to drink.another 2% is locked up in ice form and glacier. Less than 1% ii left for Drinking, Agriculture, Industry, and nature. Water is a global issue but it's also a very local issue.

A backpack -- also called bookbag, kitbag, knapsack, rucksack, rucksack, pack, backpack or backpack -- is, in its simplest form, a cloth sack carried on one"s back and secured with two straps that go over the shoulders, but there can be variations to this basic design.Backpacks are commonly used by hikers and students and are often preferred to handbags for carrying heavy loads or carrying any sort of equipment, because of the limited capacity to carry heavy weights for long periods of time in the hands.

As you are well aware of the fact the natural energy is the need of future considering a small initiative by Government of India to supply electric current to every home in the country and supply it for 24 Hours, alternatives to hydropower, which credits natural energy its own importance in the market.

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