Rainergy

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Researches show that during the precipitation billions of gallons of rainwater occurs over the world. Which has huge potential if utilized in the right way. Rainergy is designed to get electricity from rainwater to solve the problem of energy deficiency in rainy countries. Our device consists of 4 major parts. Rain collector fills the water tank with rainwater which then goes through the electricity generator at high speed and generates the electricity through the motion created by the wheel. Generator's work consists of obtaining electrical current from the impact of the fixed magnetic field generated by the magnetic contour mounted on the base of niobium, iron, boron. Then the electricity is stored in the accumulator for further implementation. We've built its 3 prototypes at the laboratory. Our first prototype lightens up only 3 LED lamps. The second prototype lightens up 22 LED lamps. And third and for now our last prototype which was made by professionals of Alternative Agency of Azerbaijan gives us 120 W of power if the rotor's rotation speed is 180 cycle per minute. Moreover, Rainergy reduces the amount of CO2 emissions to 10 g per KW/ H during the production of the electricity. This is very little CO2 amount compared to the other current alternative energy solutions.

Awards Won: