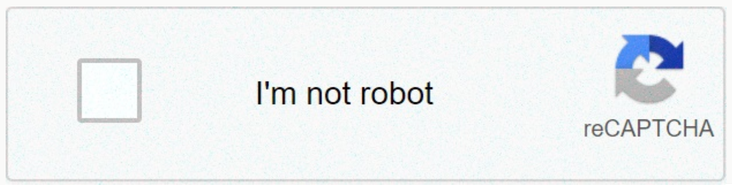

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Chicago electric generator 98838

We're not going to build an electric generator to power your house. Instead, we're building a small experimental generator. The same principles apply to a large and small generator. Electric generators can be called energy converters because they convert heat energy or kinetic energy (energy from movement) into electrical energy. The theory behind an electric generator is that the variation of a magnetic field produces an electrical current through a wire loop. It's pretty easy to build an electric generator. Just follow these instructions. Decide which energy source you want to convert to electricity. You use everything with a rotating axle, such as a stationary bike. Rinse a length of wire to form a rather large loop, ensuring that the two ends of the wire are accessible. The more coils you make, the more electricity you produce. Connect the wire loop to your energy source, for example the bicycle axle. Make sure the loop is well supported and does not get in the way of moving parts of your energy source (such as the pedals, if you are using a bike). Place strong magnets around the loop so that the loop can rotate freely between them. You want to control the magnets to maximize field strength. You do this by making the south pole of a magnet face at the north pole of another magnet. Attach your energy source (e.g. the bicycle shaft) to a large battery. Activate your energy source (for example, sit on the bike and start pedaling). You just produced electricity. [sources: Powerful, Science Project] 1.Nu adjust positions of magnets in pencil. When pencil tip rests on acrylic strip, front magnet should be alighned little behind the front magnets of the foam and the back magnet should come exactly on the back magnets on the foam.2.Once well done, pencil will float. Finally, sharpen the pencil from backsede and twist it.. It will run almost forever. Well you actually use just an electric motor that you find, if you have the axis that connects to the fixture what will happen is that you disrupt the magnetic field and cause an electrical charge to produce as a by-product... Grab a small motor (I usually get mine from broking game controllers...) and take the wires that normally feed the electric charge into the engine, and hook them to a small light... LED could work... Anyway, turn the part of the engine that usually runs when it is powered with your fingers... Even without battery connected to the light should power on, but possibly only vaguely using only the electric charge of the engine ... Same concept aplies with even bigger engines, but some I think lock up for safety reasons when not powered, they would be useless... If you need power generation on a larger scale, look at acquiring an Alternator, possibly from a scrapyard, they are also more efficient. Hope this helps! Just magnets? You also need wire - every wire that moves moves A magnetic field (or magnetic field that moves along a wire) will generate an electric current - the most common way is to rotate a coil of wire in a magnetic field, or to spin magnets along a coil. According to the Ministry of Energy, wind turbines generate electricity when the wind moves the fan blades, which are connected to an electric generator via a central axis. As the blades rotate, they run the generator, creating an electric current. The heart of a wind turbine is the generator, a machine that converts the rotational energy of the fan blades into electric current. It does this by moving conductive wire in a magnetic field, with the wire loops or brushes connected to the central shaft of the turbine's propeller. When the wind rotates the blades at an appropriate speed, the moving wire is charged in the magnetic field of the generator, creating an electric current. Turbines can be horizontal, in which case they look like giant pedestal fans, and often have the capacity to rotate to follow the direction of the wind for maximum power production. Vertical turbines look like eggbeater blades, and can function when the wind hits them from any direction. The electricity from wind farms flows only when the wind is blowing, which is why many regions of the country that have invested in wind energy use it as an additional source, along with conventional or other renewable methods of power generation. Electric vehicles rely solely on electric motors for propulsion, and hybrids use electric motors to help their combustion engines propel. But that's not all. These engines can be and are used to generate electricity (by means of regenerative braking) for charging the batteries on board these vehicles. The most common question is: How can that be... how does that work? Most people understand that an engine is powered by electricity to do work- they see it every day in their household appliances (washing machines, vacuum cleaners, food processors). But the idea that an engine can run backwards, actually generating electricity instead of consuming it almost seems like magic. But once the relationship between magnets and electricity (electromagnetism) and the concept of energy conservation is understood, the mystery disappears. Engine power and electricity generation begin with the property of electromagnetism - the physical relationship between a magnet and electricity. An electromagnet is a device that acts like a magnet, but the magnetic force is manifested and controlled by electricity. When wire made of conductive material (copper, for example) by a magnetic field, current is created in the wire (a rudimentary generator). Conversely, when electricity is passed through a wire that is wrapped around an iron core, and this core is in the presence of a magnetic field, it will move and rotate (a (a basic engine). Engine/generators are really a device that can run in two opposite modes. Contrary to what people sometimes think, that doesn't mean that the two modes of engine/generator run backwards from each other (that if an engine turns the device in one direction and as a generator, it turns the opposite direction). The shaft always rotates the same way. The change of direction is in the flow of electricity. As an engine it consumes electricity (flowing in) to make mechanical power, and as a generator it consumes mechanical power to produce electricity (flows out). Electric motor/generators are generally one of two types, either AC (AC) or AC (DC) and these designations are indicative of the type of electricity they consume and generate. Without going into too much detail and clouding the problem, this is the difference: AC-current changes direction (changes) as it flows through a circuit. DC flows flow uni-directionally (remains the same) when it goes through a circuit. The type of power used is usually concerned with the cost of the device and its efficiency (An AC engine/generator is generally more expensive, but is also much more efficient). Suffice it to say that most hybrids and much larger all-electric vehicles use ac motor/generators- so that's the type we'll focus on in this explanation. An ash-mounted wire wound fixture (rotor)A field of magnets that induce electrical energy stacked side by side in an enclosure (stator)Slip rings that carry the AC current to/from the luminairebrushes that contact the slip rings and transfer power to/from the electrical circuit The fixture is powered by a mechanical source of power (for example in commercial electrical energy production it would be a steam turbine). When this wound dror is spinning, the wire coil goes over the permanent magnets in the stator and an electrical current forms in the wires of the fixture. But because each individual loop in the coil first passes the north pole then the south pole of each magnet successively as it rotates on its axis, the induced flow constantly, and quickly, changes direction. Each change of direction is called a cycle, and it is measured in cycles-per-second or hertz (Hz). In the United States the cycle speed is 60 Hz (60 times per second), while in most other developed parts of the world it is 50 Hz. Individual slip rings are mounted on each of the two ends of the rotor's wire loop to provide a path for the current to leave the fixture. Brushes (which are actually carbon contacts) drive against the slip rings and complete the path for the flow into the to which the generator is attached. Motor action (delivering mechanical force) is essentially the opposite of generator action. Instead of spinning the fixture to make electricity, power is powered by a circuit, through the brushes and slip rings and in Armature. This current that flows through the coil wound rotor (fixture) turns it into an electromagnet. The permanent magnets in the stator emit this electromagnetic force, causing the fixture to rotate. As long as electricity flows through the circuit, the engine will run. Run.

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