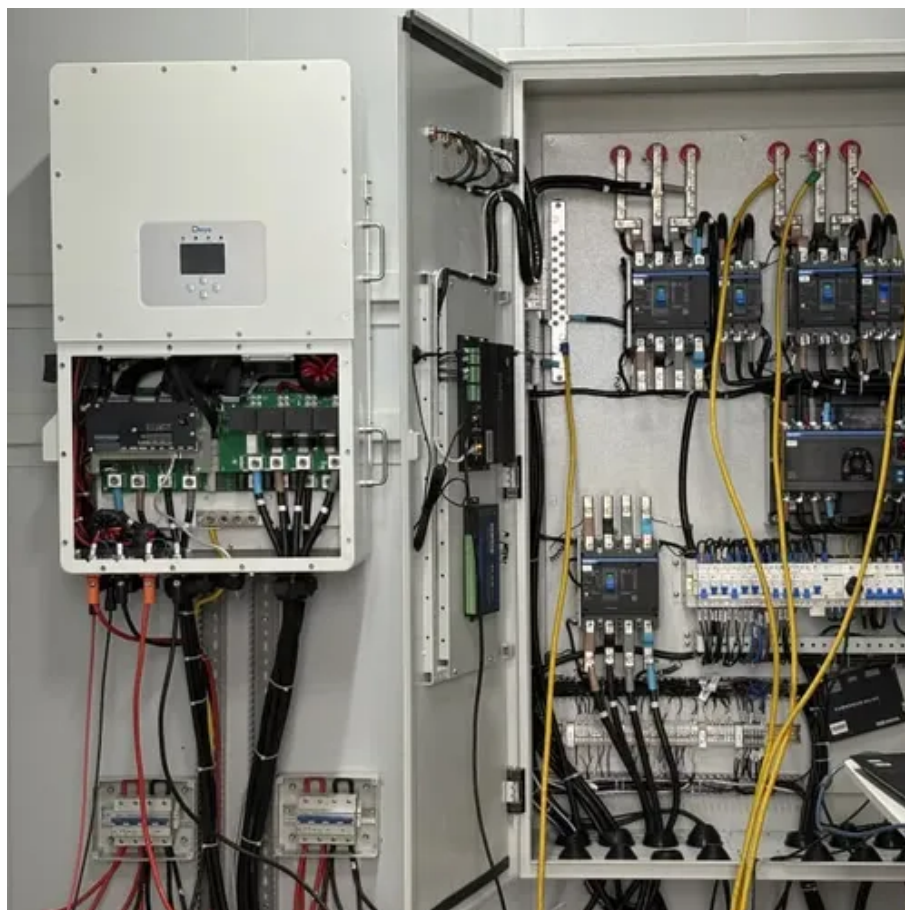




Can large power stations use permanent magnets to generate electricity





Overview

Electric generators rotate coils of wires through magnetic fields created by permanent or electric magnets. It seems like magnets not only can apply a force but can also do work, so I don't understand why they wouldn't be able to generate electricity. Actually, permanent magnets can generate electricity briefly if they are close enough to attract each other and collide, it can create a spark, if the. The discussion revolves around the use of permanent magnets versus electromagnets in large generators, particularly in the context of power plants. Participants explore the implications for efficiency, power generation, and voltage regulation. One participant teaches about basic generator. What happens inside a power plant to convert coal, nuclear, or renewable energy into usable electricity?

Now, let's clear up the confusion and break it down step by step.



Can large power stations use permanent magnets to generate electricity?



[How Are Magnets Used To Generate Electricity?](#)

Large power plants have big, room-sized generators that produce ...

[Do Large Generators Really Use Permanent Magnets?](#)

The discussion revolves around the use of permanent magnets versus electromagnets in large generators, particularly in the context of power plants. Participants explore the implications for ...



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When it comes to generating electricity, there are two primary types of Electric generators used in various applications: Permanent Magnet Generators (PMGs) and traditional alternators. ...

[How Are Magnets Used To Generate Electricity?](#)

Large power plants have big, room-sized generators that produce electricity using magnetic fields from electric magnets. Usually the electric magnets are mounted on a shaft and are ...



[How Power Plants Generate Electricity Explained](#)

In practical applications, generators use electromagnets (instead of permanent magnets) to create stronger, controlled magnetic fields. This induced current flows through power lines, ready to be ...



[Guide to Understanding and Using Magnetic Power Generators](#)

Permanent magnet generators, crucial for converting mechanical energy into electrical power via magnetic fields, play a significant role in various applications, including wind, steam, and ...



[Permanent Magnet Generators , How it works. Application](#)

Permanent magnet generators, or PMGs, are a significant piece of technology with wide-ranging applications. Essentially, PMGs are devices that convert mechanical energy into electrical ...

[Do Generators Have Permanent Magnets? A Comprehensive ...](#)



Permanent magnets offer several advantages, such as: No power consumption: They produce a magnetic field without needing an electrical supply. Durability: If not subjected to extreme ...



Electric generator

For some applications, the magnetic field of the generator may be provided by permanent magnets. The rotor structure can consist of a ring of magnetic iron with magnets mounted on its surface.



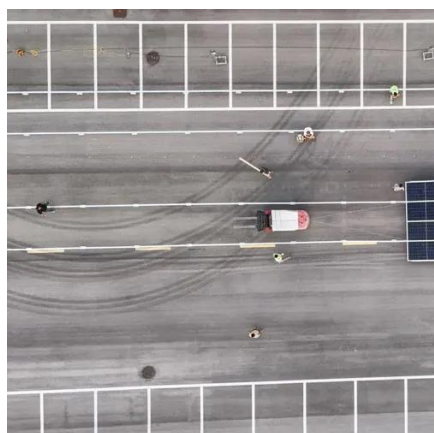
Is it possible to generate electricity perpetually using only permanent

EDIT: I'm talking about generating electricity perpetually using only the magnets with no additional energy input. I'm sure the answer is no, but can you explain why it's not possible?



Is it possible to generate electricity perpetually using ...

EDIT: I'm talking about generating electricity perpetually using only ...



Magnets and electricity



Moving a magnet around a coil of wire, or moving a coil of wire around a magnet, pushes the electrons in the wire and creates an electrical current. Electricity generators essentially convert ...





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