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Electric new energy storage magnetic pump

Overview

What is a moving magnet pump (MMP)?

A moving magnet pump (MMP) is a unique type of electromagnetic (EM) pump that does not suffer from the shortcomings of other induction-style EM pumps. MMPs produce a traveling magnetic field that induces electrical currents within electrically-conductive liquid metals.

When were the first EM pumps created?

To take advantage of promising liquid-metal technologies, many different types of electromagnetic (EM) pumps have been created since the 1940’s. High-temperature, liquid metals can be used in a variety of ways to enhance both energy production and energy storage, as highlighted by Table 1.

How do moving magnet pumps work?

Moving magnet pumps (MMP’s) work by having liquid metal flows in the direction of magnet rotation. (Disc-style MMP’s typically have two discs, one on either side of the duct. For this image, the second disc was omitted for clarity.) MMP’s are powerful and useful tools with immediate industrial applications.

Are magnetic energy storage systems becoming more efficient?

Hybrid systems: Some researchers are combining magnetic storage with other technologies to create more versatile and cost-effective solutions. These advancements are steadily increasing the efficiency of magnetic energy storage systems. As performance improves and costs decrease, we’re inching closer to wider adoption of this promising technology.

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Imagine a world where energy waste is a thing of the past. Picture a future where power grids operate with efficiency, never faltering even as demand fluctuates. This isn't ...

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Power grids are an immensely complicated network. These vast networks of power generation, transmission and delivery ensure there is electrical power on demand for ...

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