



Ares advanced rail energy storage Cocos Keeling Islands

What is advanced rail energy storage?

Advanced Rail Energy Storage (ARES) uses proven rail technology to harness the power of gravity, providing a utility-scale storage solution at a cost that beats batteries. ARES' highly efficient electric motors drive mass cars uphill, converting electric power to mechanical potential energy.

How does Ares energy storage work?

ARES energy storage technology employs a fleet of electric traction drive shuttle-trains, operating on a closed low-friction automated steel rail network to transport a field of heavy masses between two storage yards at different elevations.

How long do ARES Systems last?

ARES systems are machines and have a 40-year service life with no degradation and no thermal runaway. ARES uses recycled steel rails, low-carbon and reclaimable mass cars, sophisticated motors and electronics, and freely available gravity, providing a fully sustainable renewable energy storage solution for utility-scale deployment.

How do Ares shuttle trains work?

During periods where excess energy is available on the grid, ARES shuttle-trains draw electricity from the grid, which powers their individual axle-drive motors, as they transport a continuous flow of masses uphill against the force of gravity to an upper storage yard.

Where is Ares Nevada launching a new energy storage project?

A project nearly a full decade in the making, ARES Nevada LLC has finally moved the first shovelful of dirt to kick off construction of its brand new energy storage project, the ARES GravityLine, located right here in the Pahrump Valley, with an official groundbreaking ceremony hosted on Thursday, Oct. 8 in honor of the ...[Read more >](#)

Is Ares a good choice for long-duration energy storage?

ARES plans to actively participate in the frequency regulation market in CAISO, confident in their fast response time. Since there is no evaporation, as with PSH, the self-discharge rate or the energy loss during the storage is extremely low, making them an ideal candidate for long-duration energy storage.

Founded in 2010, Advanced Rail Energy Storage (ARES) has developed, tested and patented rail-based, gravity-powered energy storage technologies that are more environmentally responsible, durable, and cost-effective than other utility ...

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ARES will use surplus wind/solar or other low-cost energy from the grid to move hundreds of tons (millions of pounds) of mass uphill on railroad shuttles, effectively storing thousands of megawatt-hours of potential energy to power a medium-sized city for several hours.

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Advanced Rail Energy Storage (ARES) provides a deployable solution for grid-scale energy storage. ARES mission is to enable the electric grid to integrate unprecedented amounts of clean, environmentally responsible, renewable energy while maintaining the reliable electric service necessary to power growth and...

March 29 (SeeNews) - Advanced Rail Energy Storage LLC (ARES) said Monday it received a right-of-way lease from the US Bureau of Land Management (BLM) for its 50-MW commercial-scale gravity-based rail energy storage project in Nevada.

Founded in 2010, Advanced Rail Energy Storage (ARES) has developed, tested and patented rail-based, gravity-powered energy storage technologies that are more environmentally responsible, durable, and cost-effective than other utility-scale storage alternatives.

Advanced Rail Energy Storage (ARES) has developed a breakthrough gravity-based technology that will permit the global electric grid to move effectively, reliably, and cleanly assimilate renewable energy and provide significant stability to the grid.

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