



# Freetown gravity energy storage company plant operations telephone

Why is gravity the future of energy storage?

As the world generates more electricity from renewable energy sources, there is growing demand for technologies which can store excess energy produced and release it on demand. Gravity develops innovative, long duration underground storage technologies that deliver flexible, low-cost solutions for energy storage.

Is gravity power a cost-effective storage solution?

Gravity Power is the only storage solution that achieves dramatic economies of scale. PNNL conducted a study to calculate the LCoE (levelized cost of energy) for 14 storage technologies, grouped into Pumped Storage Hydroelectric, Hydrogen, Flow, and Lithium Ion. The Gravity Power technology is by far the most cost-effective.

What is gravity storage?

Simple, clever and durable: The technical concept of Gravity Storage uses the gravitational power of a huge mass of rock. It will store electricity of large capacity between 0,5 and 10 GWh and will close the gap between renewable energy production and 24/7 supply with zero carbon electricity: cost-efficient, at giga-scale, environmentally friendly.

Where should gravity storage plants be located?

Gravity Storage requires suitable geological conditions but no elevation difference. Gravity Storage plants should be located in areas with solid bedrock. The most favorable sites have stable, little-faulted rock such as granite or compact layers of otherwise solid rock material.

Why do we need gravity power plants?

Gravity Power Plants provide a pathway to more projects, more revenue, and more contributions to their regional economies. Local, state, and national governments need to set energy policies to achieve a carbon-free energy sector. We provide a path for this, while protecting the environment, keeping consumer costs low, and providing local jobs.

Can a gravity-based storage system be built anywhere?

The firm's only gravity-based storage system does not rely on land topography or geology and "thus can be built almost anywhere either co-located with solar or wind plants or simply connected to the grid to support dispatchability and grid stability," according to a statement by the firm.

Energy Vault said the composite blocks are made of local soils, as well as materials otherwise destined for landfills or incinerators, including recycled coal ash, waste tailings from mining operations, and wind turbine blades. In 2020, Energy Vault had the first commercial scale ...



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