Gravitational storage:
a fundamental support for ensuring energy stabilization in energy-intensive industrial sites.

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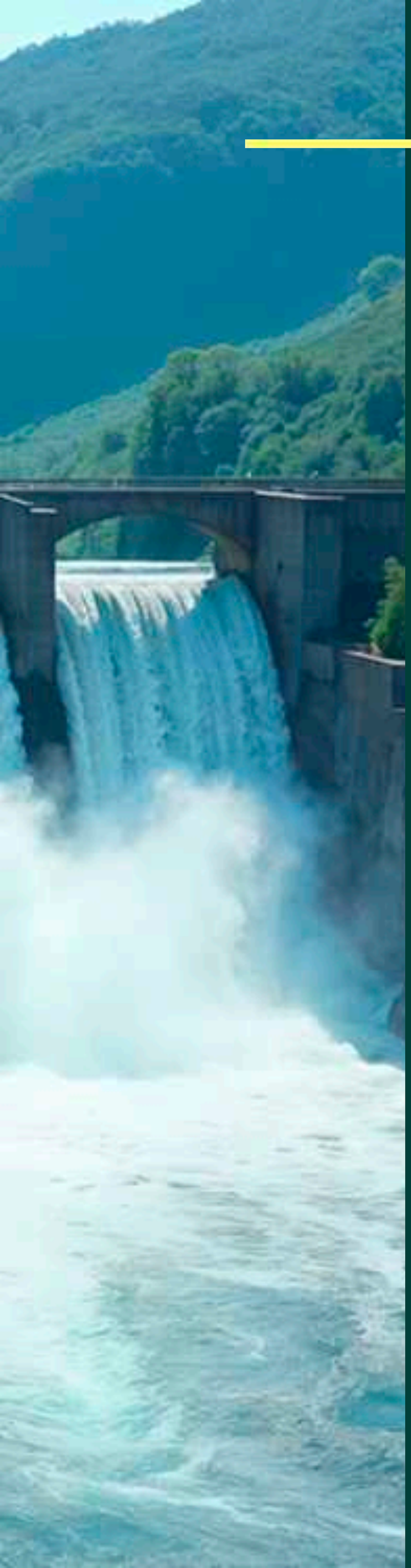
Energy storage represents a key technology to enable the development and widespread adoption of renewable energy sources, while at the same time ensuring the stability of the entire electrical system.

How a gravitational storage plant works:

The operating principle of AENERGY POWER's GBS (Gravitational Battery System) mirrors that of hydroelectric power plants. During periods of excess electricity production, surplus energy is used to pump water from lower reservoirs to upper ones; the water stored in the upper basins is then released to drive hydraulic turbines and generate electricity during periods of higher demand.



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In a similar way, the GBS System uses excess energy to lift and store, at a certain height, dedicated weights made from environmentally sustainable materials. When energy is required by the grid, the weights are released and descend in a controlled manner, managed by dedicated software that activates electric generators, thus producing electrical energy.

An innovative, cost-effective, and environmentally friendly system.

This innovative system combines AENERGY POWER's well-established expertise in industrial lifting with a new intelligent energy management technology for energy-intensive industrial sites. These sites can adopt gravitational technology for long-duration energy storage applications, storing energy produced by existing renewable plants and releasing it when needed, thereby ensuring energy stabilization and enabling smarter and more cost-effective management of internal power networks.

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