

## ContainerPower Energy Solutions

# Gravity solar



## Overview

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What is gravity energy storage system (GESS)?

The 25 MW/100 MWh EVx™ Gravity Energy Storage System (GESS) is a 4-hour duration project being built outside of Shanghai in Rudong, Jiangsu Province, China. The EVx™ is under construction directly adjacent to a wind farm and national grid.

How does gravity affect the Solar System?

While we are familiar with gravity's impact on us and on Earth, this force also has many effects on the entire solar system, too. One of the most noticeable effects of gravity in the solar system is the orbit of the planets. The sun could hold 1.3 million Earths so its mass has a strong gravitational pull.

What is gravity based energy storage?

As long as mechanical parts remain functional, the stored energy can be released when needed. Early forms of gravity-based storage have existed for over a century as pumped hydroelectric systems pump water uphill when energy is cheap or abundant and then release it downhill through turbines when electricity demand peaks.

What are some examples of gravity storage?

The most striking example of this shift to gravity storage is Rudong, China, where a partnership between Energy Vault (a Swiss company) and the Chinese government has created the EVx system. Standing over 120 meters high, the EVx building is a massive mechanical tower for lifting giant blocks weighing 24 tons during surplus energy.

What is gravity vault?

Gravity Vault As the global transition toward renewable energy accelerates, storing electricity generated by intermittent sources, such as solar and wind, becomes more urgent. Power production often plunges when the sun sets or

the wind dies down.

How does a gravity battery work?

The basic idea behind a gravity battery system is to lift a heavy object, such as a large mass of concrete or a weight, on a pulley, using energy from a power source. When energy is needed, the thing can fall, and the potential energy is converted back into electricity.

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