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Could a cutting-edge technology that harnesses one of the universe's fundamental forces help solve our energy storage challenge? There is a riddle at the heart of the renewable energy...

The design offers an alternative to the chemical batteries that dominate the global energy storage market--a market that is growing hand in hand with renewable power, which needs to bank energy when the Sun shines or the wind blows, and release it when the grid faces high demand.

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Gravity energy storage systems, using weights lifted and lowered by electric winches to store energy, have great potential to deliver valuable energy storage services to enable this transformation.

Using gravity and solid weights to store energy makes perfect sense, but only if you do it underground, says Gravitricity Commercial Director Robin Lane. The idea of using gravity to store energy is not new.

But when skies darken and conditions are calm, what do we do? The answer, today, is to ramp up conventional power production, supplying the grid by burning fossil fuels.

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Each staff member is aligned to our mission to accelerate the global transition to 100% renewable energy and

Tajikistan gravitricity energy storage

cares passionately about the potential offered by our innovative energy storage technologies.

SOLUTION - At Gravitricity we are developing two complementary technology streams which utilise the unique characteristics of underground spaces to provide an appropriate scale of distributed energy storage.

A gravitricity energy storage is being constructed to be commenced in 2022 in order to provide 4-8 MW power with a storage capacity of 2 MWh (Gravitricity, n.d.). Morstyn et al. (2019) analyzed the performance of a gravitricity system in detail.

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