

A team of researchers led by Professor Dennis Leung from the Department of Mechanical Engineering at the University of Hong Kong (HKU) has discovered a new possibility - a rechargeable aqueous battery with a magnesium metal anode.

So far, the mainstay is lithium-ion battery systems and, much like solar and wind energy, the cost continues to decline year-on-year. Battery storage is approximately 75% less expensive than it was ten years ago and is projected to be less than half of today's price by the end of the decade 3 .

Lithium-ion batteries are effective for short-term energy storage capacity (typically up to four hours), but other energy storage systems will be needed for medium- and long-term storage capabilities.

The new development overcomes the persistent challenge of voltage decay and can lead to significantly higher energy storage capacity. Lithium-ion batteries (LiBs) are widely used in electronic devices, while lithium-(Li) and manganese-rich (LMR) layered oxides are a promising class of cathodes for LiBs due to their high capacity and low cost.

After almost two years of tinkering, Ampd created a 7.3-tonne, 2.6-meter-tall gleaming white box packed with 30,000 lithium-ion battery cells. Ng named it Enertainer, a portmanteau of energy...

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A research team led by Professor Dennis Y.C. Leung of the University of Hong Kong (HKU)'s Department of Mechanical Engineering has achieved a major breakthrough in battery technology with the development of a high-performance quasi-solid-state magnesium-ion (Mg-ion) battery.

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Hong Kong lithium ion solar storage battery

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