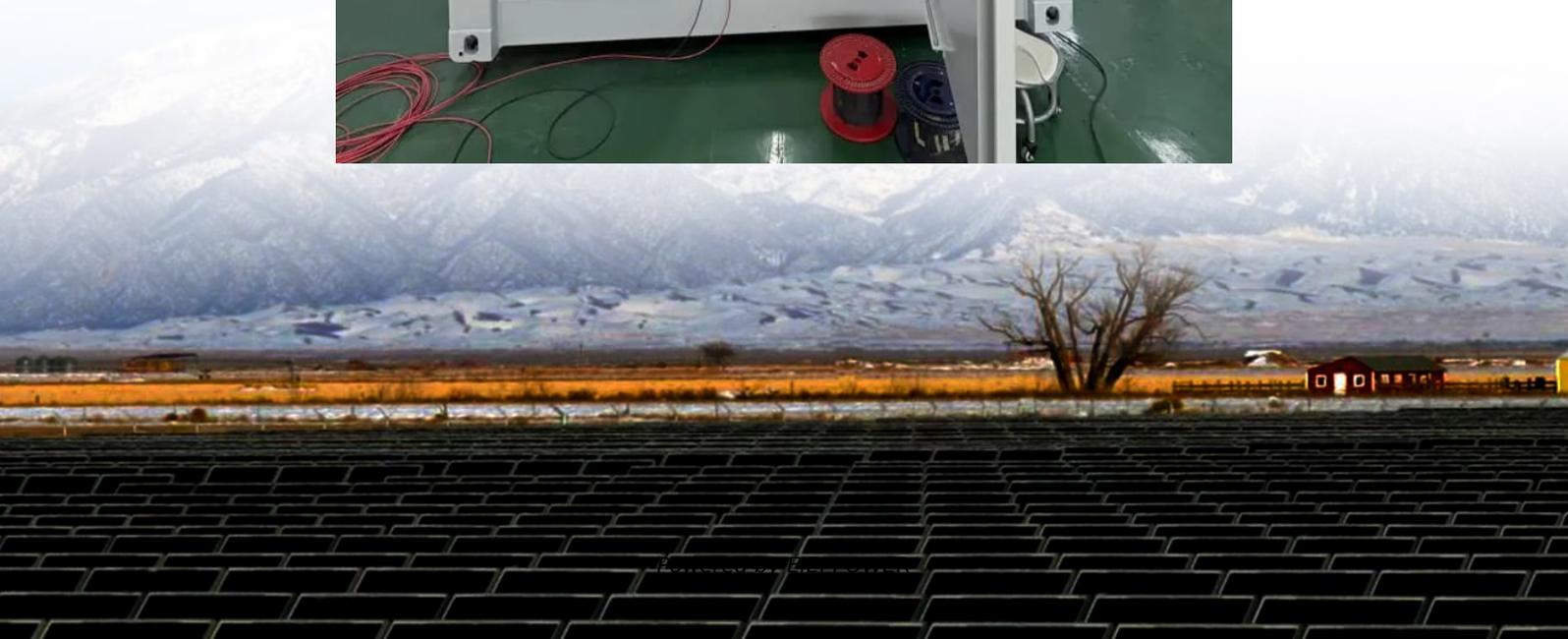


# Does liquid air energy storage power station have commercial value





## Overview

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Could liquid air energy storage outperform batteries?

MIT and NTNU research shows liquid air energy storage (LAES) offers a cost-effective, efficient solution for long-duration grid storage. With competitive LCOS and reliable performance, LAES could outperform batteries and pumped hydro for a decarbonized power network.

What is liquid air energy storage (LAEs)?

S-based power systems. Liquid Air Energy Storage (LAES) is a game changing technology which can unlock the full potential of renewable energy by making it as reliable and dispatchable as energy.

Could liquid air energy storage systems outperform lithium-ion batteries and pumped hydro systems?

LAES could outperform both lithium-ion batteries and pumped hydro systems in specific scenarios. The economic feasibility evaluation was published in Energy and can be found here: Cetegen, S. A., Gundersen, T., & Barton, P. I. (2025). Evaluating economic feasibility of liquid air energy storage systems in future US electricity markets.

Is liquid air energy storage a viable solution for a decarbonised power network?

Researchers from MIT and Norwegian University of Science and Technology (NTNU) find that liquid air energy storage (LAES) represents a promising solution for long-duration storage in grid environments on a decarbonised power network.



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