

## A-Core Container

# Korean liquid-cooled energy storage container



## Overview

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The cold box for a large-scale, long-duration Liquid Air Energy Storage (LAES) system, developed by the research team led by Principal Researcher Dr. Jun Young Park at the Department of Energy Storage Systems, KIMM. Credit: Korea Institute of Machinery and Materials.

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The Korea Institute of Machinery and Materials made a breakthrough that may have a profound impact on energy storage and the transition to clean energy sources. The liquid air energy storage system "uses surplus electricity to chill air into liquid, store it, and later release it to generate.

Korea's KIMM team achieved the country's first large-scale liquid air storage, producing 10 tons per day. Researchers inspecting the turbo expander developed for a large-scale, long-duration Liquid Air Energy Storage system. Korean researchers have unlocked a new way to bank clean energy and turn.

Scientists at KIMM have developed a groundbreaking Liquid Air Energy Storage system, turning air into a clean power source. As the world seeks solutions for storing renewable energy, Korean scientists have made a significant leap. Researchers at the Korea Institute of Machinery and Materials (KIMM).

The Korea Institute of Machinery and Materials (KIMM), under the National Research Council of Science and Technology (NST), has successfully developed and demonstrated core technologies for a Liquid Air Energy Storage (LAES) system. This next-gen solution promises large-scale, long-

duration energy.

Led by Principal Researcher Dr. Jun Young Park of KIMM's Department of Energy Storage Systems, the research team has designed and manufactured two vital components of LAES: a turbo expander and a cold box. Both have been successfully demonstrated, marking Korea's first-ever air liquefaction test.

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