

# Ailoys GmbH and JR Energy Solution Sign MoU to Advance Sustainable Battery Development with Industrial AI

BERLIN, GERMANY, November 18, 2024 /EINPresswire.com/ -- [Ailoys GmbH](#) and [JR Energy Solution](#) Sign Memorandum of Understanding to Advance Sustainable Battery Development with Industrial AI

In a transformative move for the global battery industry, Ailoys GmbH, a pioneer in Industrial AI solutions for manufacturing, has announced a strategic Memorandum of Understanding (MoU) with South Korean lithium-ion battery manufacturer JR Energy Solution. Officially signed on 15 November 2024, the partnership aims to drive the development of next-generation lithium-ion batteries while enhancing existing battery characteristics, with a focus on the automotive sector.



This collaboration leverages the combined expertise of Ailoys and JR Energy Solution to revolutionise battery manufacturing processes. Ailoys will deploy its cutting-edge Industrial AI platform to create digital twins of JR's manufacturing systems, utilising advanced sensors and AI-driven data analytics to enable real-time model training and performance optimisation. The result is a streamlined process that delivers consistent operational excellence and tangible performance enhancements.

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*Sergei Altyntbaev*

The agreement was finalised at the vibrant and recently opened Drivery Japan and Tech Hub Yokohama, a promising centre where cutting-edge technology meets visionary collaborations. This dynamic space reflects the shared ambition of Ailoys GmbH and JR Energy Solution to pioneer groundbreaking advancements in battery technology, driving innovation and fostering a greener, energy-efficient future.

Ailoys' technology will work in tandem with JR Energy Solution's robust production capabilities to enhance the precision and reliability of electrode and cell manufacturing through digitalisation and automation. This joint approach addresses key industry challenges while setting new standards for innovation in energy storage, with an emphasis on high quality and operational synergy.

The partnership will focus on deploying Ailoys' AI agents to accelerate the adoption of recycled batteries and electrode materials, driving sustainability KPIs, reducing production costs, and setting a new benchmark in green battery manufacturing.

"I firmly believe that AI will play a pivotal role in accelerating the green energy transition," said Sergei Altynbaev, CEO of Ailoys GmbH. "Our Industrial AI platform is designed not only to transform manufacturing processes but also to revolutionize the discovery of new materials. This MoU with JR Energy Solution unites their expertise in Li-Ion battery manufacturing with our advanced AI capabilities, setting the stage for next-generation battery technologies and sustainable material innovation."



"We are absolutely sure that AI will take battery manufacturing to the next level, reducing costs and improving reliability," said Duke Oh, CEO of JR Energy Solution. "Being at the forefront of supporting battery innovation, JR Energy Solution seeks to implement cutting-edge technologies, like AI, to serve our customers better. This can only be achieved through partnerships between innovative companies like JR Energy Solution and Ailoys."

This collaboration underscores the mutual commitment of Ailoys and JR Energy Solution to innovation, sustainability, and transformative industry growth. Together, they are setting new benchmarks for lithium-ion battery manufacturing, driving greater efficiency, and shaping a more sustainable, energy-efficient future for the automotive sector and beyond.

To learn more about Ailoys GmbH, visit <http://www.ailoys.com/>, and follow our news and updates on [LinkedIn](#).

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## About Ailoys GmbH

Ailoys GmbH is an AI-driven deep-tech company at the forefront of transforming manufacturing industries through advanced Industrial AI and digital twin technology. Specializing in material science, Ailoys delivers innovative solutions that optimize the performance of manufacturing assets, empowering small and medium enterprises (SMEs) to enhance productivity and efficiency.

Recognizing that many industries in need of AI-powered improvements remain under-digitalized and reliant on manual expertise, Ailoys addresses these challenges head-on. Headquartered in Berlin, the company is committed to driving innovation, enabling sustainability, and revolutionizing materials discovery and manufacturing processes.

Learn more at [www.ailoys.com](http://www.ailoys.com)

## ABOUT JR ENERGY SOLUTION

JR Energy Solution, established in 2022 as a premier electrode foundry, brings unparalleled expertise in manufacturing high-performance battery electrodes (cathodes and anodes). With a commitment to precision engineering and cutting-edge technology, JR Energy Solution is dedicated to advancing battery performance, safety, and sustainability. Their state-of-the-art foundry empowers customers by accelerating development cycles and scaling up the production of next-generation battery products. JR Energy Solution started initial production with 500MWh of annual paired electrode capacity (500 MWh cathode + 500 MWh anode), and as the company expands its production capacity to 2GWh by early 2025, JR is positioning itself as a leader in the global battery market and Smart Factory Technology.

Learn more at [www.jrenergysolution.com](http://www.jrenergysolution.com)

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