

Singapore battery performance

We aim to make Singapore the authoritative voice in battery related technologies and ...

The Singapore Battery Consortium's September Mailer covers key industry ...

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Image: The joint team of researchers and engineers from NTU and Durapower, with the container-sized energy storage solution that test-bedded the AI-powered tech. The ESS has Li-ion batteries, solar panels, and electrical and safety equipment.

Scientists from NTU and Durapower Technology Singapore Pte Ltd have developed a cloud-based technology that can greatly enhance the lifespan and safety of lithium-ion batteries.

As the global shift towards renewable energy and electric vehicles (EVs) accelerates, the demand for efficient, safe and sustainable batteries has become a pressing concern. Similarly, with the rise in cloud computing, the demand for energy storage systems for data centres has been growing.

Powered by the Internet of Things (IoT) and Artificial Intelligence (AI), this patent-pending innovation can help companies and data centres lower the risks associated with lithium-ion batteries, including potential fire hazards, particularly in hot and humid climates like Singapore.

The new technology offers high-accuracy, real-time monitoring, and can predict battery conditions for up to five years, which can help extend the lifespan of lithium-ion batteries by more than 50 per cent and thus reduce carbon emissions significantly.

SINGAPORE - A new technology aims to harness artificial intelligence to make lithium-ion batteries - used in everything from personal mobility devices to electric cars - safer by reducing their risk of catching fire.

The system, developed by scientists from the Nanyang Technological University (NTU) and energy storage solutions firm Durapower, uses a "digital twin" that mirrors an actual battery, allowing for accurate, real-time monitoring and predictions of battery conditions up to five years ahead.

Lithium-ion batteries are widely used as they are lightweight and have high energy density.

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Web: <https://www.kary.com.pl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

