

Flow batteries indonesia

Current State and the Future of Redox Flow Batteries for Stationary Energy Storage Applications in Indonesia

Redox flow battery energy storage systems (RFB-BESS) have been deployed worldwide since their commercialisation in the late 1990s and are expected to continue to grow, particularly in the Asia Pacific Region, where several large-scale renewable energy projects are in the pipeline.

RFB technology offers scalability, energy-power decoupling capability, and long-cycle life features as a stationary energy storage. Despite the aforementioned advantages, RFB is not yet the first choice for stationary storage applications because there are other technologies that outperform RFB. This report reviews several technical parameters and costs of RFB compared to other BESS technology and PHS as a representative of long-duration and long-term storage technology.

Redox Battery, Energy Storage, Renewable Energy, Indonesia, BESS, PHS, Battery Technology, Long Duration, Cost

Encouraging the acceleration of Indonesia's energy transition towards a just, clean, and low-carbon energy system.

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Indonesia Energy Transition Outlook

Indonesia Energy Transition Dialogue

Redflow eyes telecom towers as an application for its scalable flow battery.

Redflow is garnering interest in its zinc-bromine flow batteries from telecommunication companies and other businesses throughout Southeast Asia. Companies in several countries are currently evaluating the Redflow ZBM2 battery's ability to provide backup power to remotely located telecommunication towers, according to the battery maker. Last June, Redflow released a version of its flow battery for residential applications. Now it's eyeing the telecom market.

"We currently support integration partners in India, Indonesia, Singapore, Thailand and the Philippines who have sold small systems so telecommunication companies can evaluate our batteries in the field," said global sales director Andrew Kempster.

Kempster was reticent about revealing exact dates and figures. But he said Singapore, the Philippines and



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Indonesia are in the "advanced stages" of field trials, and added that those underway in India are "progressing well."

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