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**KUALA LUMPUR:** Supporting the Malaysian government’s agenda to advance new energy technologies, industry leader Solarvest Holdings Bhd emerged as one of the first clean energy players to publish a comprehensive white paper on its AI-driven Battery Energy Storage System (BESS).

The white paper details how this technology helps businesses and households optimise electricity costs, ensure reliability, and accelerate the transition to a sustainable future.

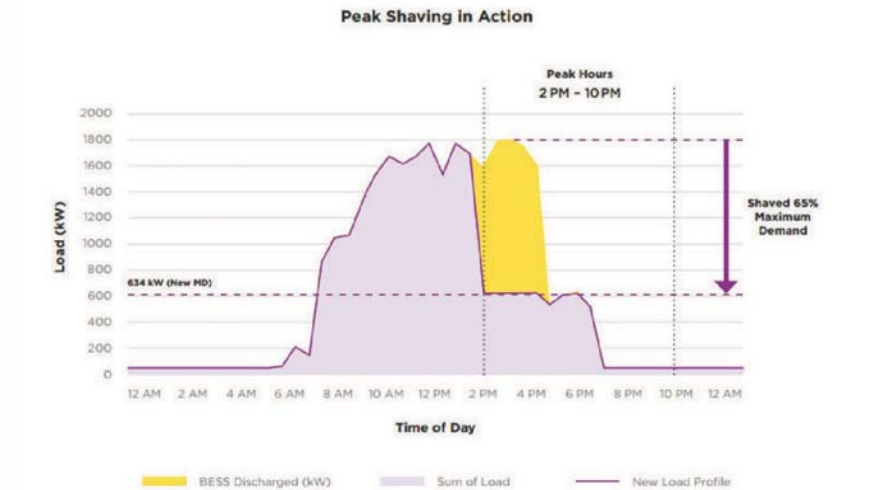
Under TNB’s new Regulatory Period 4 (RP4) tariff, businesses are charged 162% more for their peak electricity usage, known as Maximum Demand (MD), rising from RM37.00/kW under RP3 to RM97.06/kW under RP4. The surge also translates into an additional RM60,000 per month for every 1,000 kW of MD during peak hours.

Solarvest’s BESS solution “shield” businesses against these spikes, storing energy during low-demand periods and discharging it during peak hours. A recent Malaysian case study showed an effective MD reductions up to 65%, delivering a return on investment in as little as three years.

Household owners can now combine a solar photovoltaic (PV) system with BESS through Malaysia’s Solar ATAP programme for a greater benefit.

By storing excess solar energy generated during the day for use at night, the hybrid system effectively lowers monthly electricity bills and reduces exposure to MD charges and tariff hikes.

Key benefits of Solarvest’s BESS solutions: BESS flattens energy spikes during peak hours, cutting utility bills by up to 65% depending on consumption patterns; provides backup power during grid outages, keeping critical operations like production lines or data centres running



smoothly; with Solarvest’s “Zero Capex” model, businesses pay a monthly service fee lower than the savings generated, avoiding large upfront investments and BESS enables better integration of solar energy and other renewables, helping businesses achieve sustainability targets.

Solarvest executive director and group CEO Datuk Davis Chong Chun Shiong said, “Energy efficiency and sustainability are no longer optional — they are essential for businesses and households alike. Our BESS empower users to take control of their energy usage, reduce costs, and enhance reliability. With that, we also introduced a flexible Zero Capex model, allowing organisations to adopt this technology without upfront costs, paying only a service fee that is lower than the savings generated. This approach

makes clean energy adoption practical and financially rewarding.”

He added that this whitepaper outlines practical strategies for using BESS to save on electricity, maintain reliable power, and contribute to Malaysia’s clean energy goals.

This approach makes energy not just a cost, but a managed resource that drives efficiency and sustainability, he said.

BESS is part of a broader strategy to support Malaysia’s transition to cleaner energy and the nation’s goal of carbon neutrality by 2050. By combining smart energy storage, AI-driven monitoring, and tailored service plans, Solarvest offers not just a product but a complete energy management solution for businesses and households.