Powering Our Plants: New Energy Substation Opens in Thailand

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The Ban Kao Dinh (BKD) Plant in Thailand has taken a significant leap in power stability and production efficiency by successfully energizing its new 115 KV substation. The power system was initially activated in June, marking the start of an era of reliable electricity supply for the facility.

The innovative project aims to stabilize the power system feeding into the BKD plant. In the past, the plant experienced 63 power outages annually with the old system, creating significant disruption and production downtime. With the transition to the new system, power outage occurrences are predicted to plummet to fewer than four per year.

Beyond the increased reliability, the new substation offers the potential for future expansion at the facility. The new system forms a crucial infrastructure base supporting projects to ramp up the plant's production capacity.

"This project is a big step forward to improve plant reliability," said Pongthorn Maitreemitr, plant manager at the BKD Plant. "With this new substation, we expect to reduce the breakdown rate by more than 25%."

The substation is also anticipated to provide significant cost savings. "These savings will stem from recouping lost production opportunities and expected electrical fee savings per year," said Pongthorn.

The power system's improved stability will greatly enhance the plant's POPIT process and expedite the clearance of the drum dryer surface, speed up the pneumatic transfer system, and accelerate the ramping up of the drum dryer's temperature, allowing for uninterrupted production of pre-gel products.

Throughout the building of the substation, there were no TRIR or LTIR incidents for employees or contractors. Safety was kept at the forefront during all 52,560 working man hours.

The completed substation sets a new benchmark for industrial power solutions in Thailand and is a testament to BKD's commitment to technological advancement, cost-effectiveness, and worker safety.