Peak shaving cote d ivoire

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Client: Sabah Electricity Sdn Bhd (SESB)

With the economy in Malaysia growing at 7.7 per cent and demand for electricity growing at the same rate, Malaysia Sabah Electricity Sdn Bhd (SESB) realised they were going to have to ramp up their energy output.

They had plans to build a 300 MW independent power plant, but knew they were going to have outages, particularly during peak demand, before the new plant could hang its "Open for Business" sign. They needed to manage power consumption during peak hours, and they needed to do it straight away.

We were chosen because we had the shortest lead time of any supplier. Our rapid response time, along with our extensive experience in rental installations and short-term power packages, convinced SESB we were the best people for the job.

We built a 15 MW 20 kV power package with generator transformers, bulk fuel tanks, and a control room in just three weeks. The package was operated by our technicians at full capacity for 12 hours a day during the peak time, and in standby mode for the other 12.

It was a win-win situation: SESB reduced their operating costs as they no longer had to supply peak amounts of power during high-load working hours. Local users could save on electricity bills by managing their consumption and shifting their electricity demands to cheaper, off-peak periods.

The predicted outages were avoided allowing local businesses to go about their daily activities and the economy to continue its growth path. Our package also allowed SESB to concentrate on long term plans, while we managed power consumption on their behalf.

Corvus Energy is pleased to announce that we have been selected by National Oilwell Varco (NOV) to supply the Energy Storage System (ESS) for another PowerBlade(TM) installation. PowerBlade is an innovative energy storing unit developed by NOV that receives and provides energy based on operational needs on board offshore drilling units.

PowerBlade is used in two ways to move towards a cleaner and more efficient future for offshore drilling: energy regeneration and peak shaving, each of which is explored below.

Energy Regeneration and Storage

Operations involving frequent and cyclic hoisting of heavy loads require high levels of energy from power systems to lift the loads. Until now, drilling units have not typically been able to make use of the regenerated

energy created when lowering a load.

"Offshore drilling units perform advanced operations in uniquely challenging environments that involve waves, winds, and currents. Capitalizing on energy regenerated during heave compensation or tripping operations on offshore drilling units can be challenging," says Oddbj?rn ?ye, Product Responsible Energy Recovery Systems - Robotic Control Drive Tech & Winch at NOV.

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Web: https://www.kary.com.pl/contact-us/
Email: energystorage2000@gmail.com
WhatsApp: 8613816583346