SYNC Generator

"I have an 800 kVA running my aggregate plant 24/7 but there are periods in the day when the load drops. I am spending a lot on fuel – can you come up with a more efficient solution?"

Almost every site across the UK will experience peaks and troughs in their load demand on any given day. A recent enquiry from one of our clients in the aggregate industry, gave John F Hunt Power the opportunity to provide a more fuel efficient and cost-effective power solution.

Our client was running an 800 kVA on a quarry in Bristol, providing power to 3 conveyor belts during the day. Throughout the night and over the weekend only 1 belt was required, and they asked us to come up with a solution.

How did John F Hunt respond?

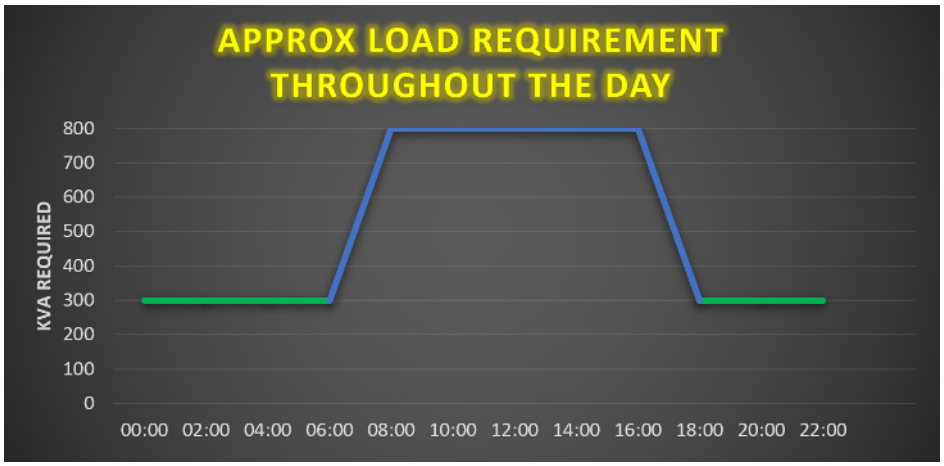
We arranged to meet the client on site and discuss the requirements in more detail. They advised of their power needs throughout the day and estimated the load requirements in the below chart.

Taking the above into consideration, we proposed operating a pair of generators in synchronised load share (SYNC).

By running a 500 kVA in SYNC with a 300 kVA the client would have sufficient power to cope with the peak demand (period shown in blue on the below).

When the load drops (period shown in green) the 500 kVA would automatically shut down and the 300 kVA would take the load – resulting in a huge fuel saving during this period.

Our experienced engineers set the generator package up in SYNC prior to delivery. Once on site, the Deep Sea Control Panels communicate and automatically turn the generators on or off to the suit the requirements on site.



What was the result for the client?

The client experienced many benefits from going with our SYNC package.

The generators worked at a much more efficient level. Running their original 800 kVA at less than 50% load for 12 hours per day, was not only wasting fuel, but It was also causing issues with the engine.

Having one power source also meant total loss of power during servicing. With two generators on site, our engineers serviced one machine, while the other kept the site running. This saving of down time added even more value to operating a SYNC pair of generators.

Finally, the client saved a huge amount of fuel.

By having the 300 kVA running for around 12 hours per day, the site estimated to have cut their daily fuel usage by almost 500 litres.

By operating a SYNC a pair of generators in this way, site have not only fulfilled their original target of saving fuel, but they are also experience a far more reliable and efficient power supply.

Does your business or site experience varying load demand's throughout the week? If so, give one of our depots a call to discuss how a SYNC can work for you.

Generator in Use	Time Ran & Approx. Load	Fuel Consumption Per Hour	Daily Fuel
800 kVA	12 HOURS @ 75%	121 LTRS	2,472 LTRS
	12 HOURS @ 50%	85 LTRS	
500 kVA + 300 kVA SYNC	12 HOURS @ 75%	118 LTRS	1,992 LTRS
300 kVA	12 HOURS @ 75%	48 LTRS	

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