

Success Story - Crane Operations

The Problem

- Cranes have very high but occasional peaks, with long periods of low load - waste of fuel!
- Generator on 24/7 to power lights on top of crane
- Reverse power tripping breaker of DG

The Solution

ZBC 250-575 + QAS 175



Fuel cost considered (\$/gal)	\$6
DEF cost considered (\$/gal)	\$2
Service cost considered (\$/service)	\$1,500

Operational Cost Efficiency

	Units	DG Only	Hybrid	Savings
Running Time	h	720	26	694
Fuel	gal	2,029.3	214.4	\$1,814.9
Fuel Cost	USD	\$10,146.5	\$1,072	\$9,074.5
CO ₂	lbs/CO ₂	44,800	4,800	40,000
Estimated Generator Lifetime	years	1.6	44.3	42.7

Key Takeaways

Generator only runs once every two days – **MASSIVE fuel savings!**

No downtime due to wet stacking or tripped breaker from reverse power from regenerative braking! (Free charge!)

Downsize generator since ZBC can cover peaks on its own... user **saves on rental fee** as well!