

330kVA Hybrid Case Study

Replacement of 330kVA by QAS 330 + ZBC 250-575

Energy Storage Systems used alongside generators have proven their sustainability with rapid Return on Investment (ROI), and low Total Cost of Ownership (TCO), typically paying back initial costs within two years. Using an Energy Storage System with a generator in hybrid mode extends the generators lifespan, optimizes performance levels avoiding low loads on the generators, reduces fuel consumption, and enhances on-site sustainability and resiliency. Additional benefits include reduced emissions, fewer service intervals, and lower logistics costs for service, maintenance, and refueling.

APPLICATIONS



TELECOM



EVENTS



CONSTRUCTION



CRANES



END USER BENEFITS

4X Longer Life

-89% Noise & Runtime

-56% Fuel & CO₂



Load Conditions:
Voltage 480V 3ph
Average Load 12%
Max Power 264kW

8 HOURS	Unit	Genset	Hybrid	Savings
	🕒 Hours	8	0.71	7
	🛢 Gallon	39	15	24
	💰 Dollar*	273	105	168
	☁ lbs CO ₂	874	336	538

1 DAY	Unit	Genset	Hybrid	Savings
	🕒 Hours	24	2	22
	🛢 Gallon	117	45	72
	💰 Dollar*	819	315	504
	☁ lbs CO ₂	2,622	1,009	1,614

28 DAYS	Unit	Genset	Hybrid	Savings
	🕒 Hours	672	60	612
	🛢 Gallon	3,276	1,260	2,016
	💰 Dollar*	22,932	8,820	14,112
	☁ lbs CO ₂	73,425	28,240	45,185

1 YEAR (365 DAYS)	Unit	Genset	Hybrid	Savings
	🕒 Hours	8,760	777	7,983
	🛢 Gallon	42,705	16,425	26,280
	💰 Dollar*	298,935	114,975	183,960
	☁ lbs CO ₂	957,147	368,134	589,014

*7\$/Gallon delivered to site. Price subject to change.
DEF and generator maintenance savings will bring additional operational cost savings.