

70kVA Hybrid Case Study

Replacement of 70kVA by QAS 70 + ZBP 30-75

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



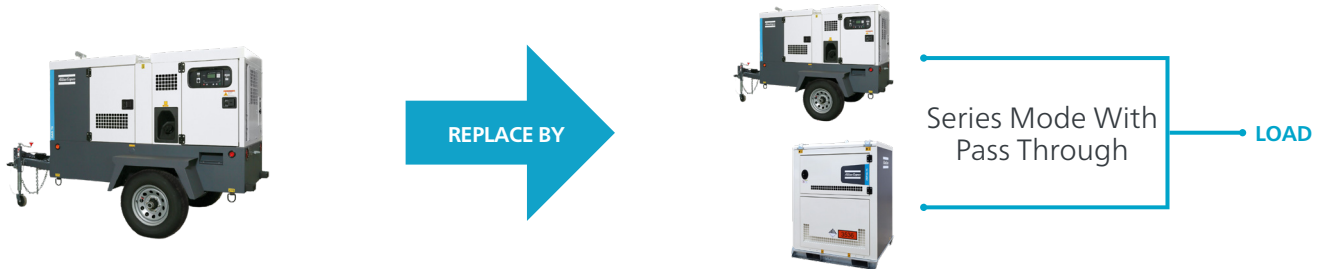
EVENTS



CONSTRUCTION



CRANES



END USER BENEFITS

5X Longer Life

-81% Noise & Runtime

-62% Fuel & CO₂

Load Conditions:

Voltage 208V 3ph
Average Load 9%
Max Power 52kW

8 HOURS	Unit	Genset	Hybrid	Savings
	🕒 Hours	8	2	6
	🛢 Gallon	8	3	5
	💰 Dollar*	56	21	35
	☁ lbs CO ₂	185	77	108

1 DAY	Unit	Genset	Hybrid	Savings
	🕒 Hours	24	5	19
	🛢 Gallon	25	10	15
	💰 Dollar*	175	70	105
	☁ lbs CO ₂	551	214	337

28 DAYS	Unit	Genset	Hybrid	Savings
	🕒 Hours	672	142	530
	🛢 Gallon	688	268	420
	💰 Dollar*	4,816	1,876	2,940
	☁ lbs CO ₂	15,443	6,004	9,439

1 YEAR (365 DAYS)	Unit	Genset	Hybrid	Savings
	🕒 Hours	8,760	1,848	6,912
	🛢 Gallon	9,125	3,650	5,475
	💰 Dollar*	63,875	25,550	38,325
	☁ lbs CO ₂	201,314	78,266	123,048

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