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

REPLACE BY

Series Mode With Pass Through → LOAD

END USER BENEFITS

5X Longer Life

-81% Noise & Runtime

-62% Fuel & CO_2

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.