45kVA Hybrid Case Study

APPLICATIONS

Replacement of 45kVA by QAS 45 + 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.









CONSTRUCTION

CRANES

			F	REPLACE BY			Series Mode With Pass Through		
END USER BENEFITS 							Load Conditions: Voltage 208V 3ph Average Load 8.6% Max Power 36kW		
10	Unit	Genset	Hybrid	Savings		Unit	Genset	Hybrid	Savings
LR.	🖄 Hours	8	1	7		© Hours	24	3	21
HOURS	🗈 Gallon	7	2	5	1 DAY	🖹 Gallon	20	7	13
	🖬 Dollar*	49	14	35		🖬 Dollar*	140	49	91
00	▲lbs CO ₂	150	51	99		Ibs CO ₂	445	151	294
	î.								
DAYS	Unit	Genset	Hybrid	Savings	AR AYS)	Unit	Genset	Hybrid	Savings
	Ö Hours	672	92	580		O Hours	8,760	1,195	7,565
	🖹 Gallon	555	190	365	≥ D	🖹 Gallon	7,237	2,470	4,767
28	🖪 Dollar*	3,885	1,330	2,555	(36	🖪 Dollar*	50,659	17,290	33,369
	Ibs CO2	12,457	4,252	8,205		Ibs CO2	162,390	55,435	106,955

*7\$/Gallon delivered to site. Price subject to change.

DEF and generator maintenance savings will bring additional operational cost savings.