Case Study - Hybrid

Success Story - Hybrid power for Daytona race RV's parking lot

The Problem

Heavily varying load with 24/7 power, especially between day/night

Highest load demand is at night when people are trying to sleep… and generators are noisy

The Solution

ZBC 250-575 + QAS 410

Fuel cost considered ($/gal)	$5
DEF cost considered ($/gal)	$2
Service cost considered ($/service)	$2,600

Operational Cost Efficiency

	Units	DG Only	Hybrid	Savings
Running Time	h	456	67	**389**
Fuel	gal	3,648 Gal	778 Gal	**2,870**
Fuel Cost	USD	$18,240	$3,890	**$14,350**
CO_2	lbs/CO_2	81,861	17,458	**64,402**
Estimated Lifetime Genset	years	1.6	10.9	**9.3**

Key Takeaways

Generator only running 4 hours per day – **charge during the day, battery only at night!**

Almost one full maintenance saved… **reduce service intervals by over 80%**

Reduce risk of service calls due to low load issues – only run generator at efficient point!