



Smart Solutions for Remote Generator Management



Remote Management & Analysis Benefits

- Increase Operational Uptime
- Reduce/eliminate failures of Mission Critical Equipment
- Reduce Operational Expenses (fuel, maintenance, spare parts, etc.)
- Reduce Capital Expenses by increasing generators' life cycle



Have you experienced a generator not working at the moment of truth?

Did you experience any fuel theft or fuel fraud?

Do you find it hard to manage/maintain your generators?

If you answered **YES** on at least one of the above questions, then Efficiency's system for Generators Management & Analysis is the perfect solution for you.



Robust M2M 24/7 monitoring solution. Our cost-effective solution is suited to ALL major brands of generators. The solution enables accurate fuel monitoring and theft prevention, events and alarm management, real time location, maintenance, diagnostic information from control panel and more.



Fuel Monitoring & Management

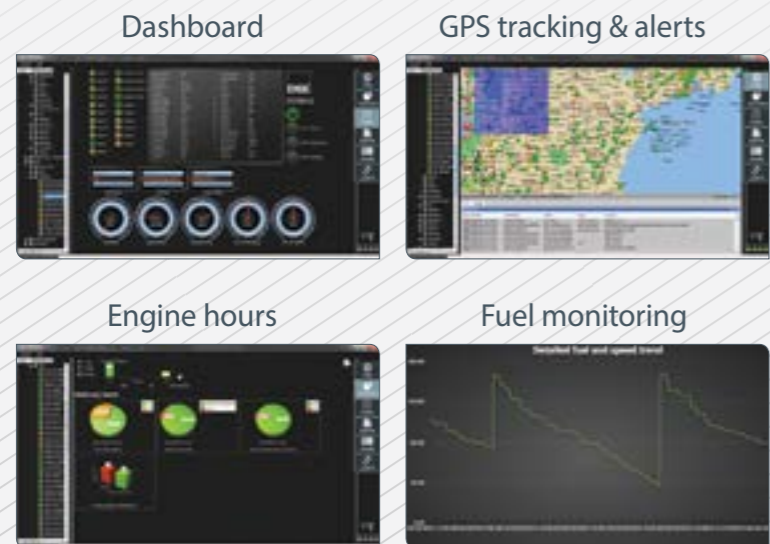
One of the primary concerns when using diesel generators revolves around fuel theft and fuel fraud. Detecting theft and fraud requires reliable and accurate monitoring. Utilizing highly accurate fuel sensors and the Corona's fuel theft algorithm, users can identify fuel theft as it happens. Galooli's solution has a proven experience in detecting fuel theft and fuel frauds as well as reducing fuel trips to the minimum required. Galooli's solution enables the user to get accurate fuel consumption rate and detailed fuel usage data.

Generator Maintenance and Alerts

Efficiencie believes in prevention instead of reaction. Efficiencie's solution enables to prevent faults and malfunctions by monitoring the generator's running hours, fuel consumption, battery level, engine parameters through engine control panel (RPM, coolant temp., oil pressure, etc.) and maintenance alerts (services, check-ups, warranty, etc.). Efficiencie's solution enables the user to set any threshold on any parameter in order to get preventive notifications.

Generator site Security & Safety

Efficiencie offers state-of-the-art security solution for generator sites. Solution includes 24/7 high quality DVR-based CCTV surveillance system, sophisticated access control system, remote stop/activation, remote siren activation, intrusion alerts, motion detectors and panic button. DVR and Cameras can be used for live video streaming or still camera snapshots triggered by motion detection or configurable events.



Savings Calculator

Efficiency will Save YOU Money!

Parameters	Value	Unit
No. of Generators	10	Gen.
Generator size	20	Kw
Cost per generator	4,000	USD
Average percentage of engine working time	75	%
Average load of the generator	1/2	Load
Average annual maintenance cost per generator (labor & consumables)	1,500	USD
Average amount of engine hours between maintenance and fueling trips	250	Hours
Average cost per maintenance and fueling trip	300	USD
Total size of the generator fuel tank (including external tanks)	200	Liters
Average delivery amount (paid) to generator per trip	100	Liters
What is the optimal delivery amount required using online solution?	180	Liters
Cost of Diesel per liter	1.2	USD
Estimated deviation between fuel bills (delivered) and actual fuel delivered to the tank	15	%
Estimated fuel siphoning from the generator tank	20	%

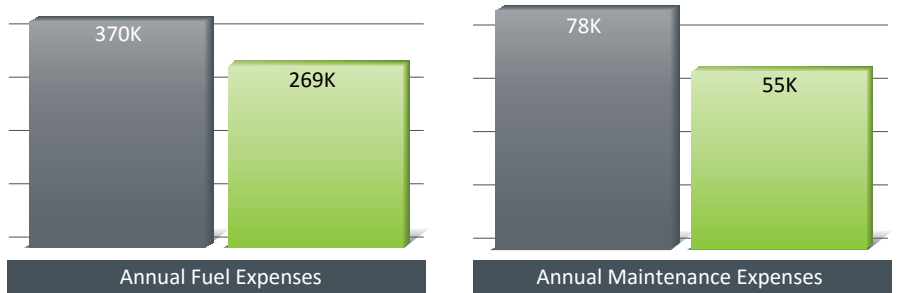
ROI in less than 3 Months!

Annual fuel amount saving	84,266	Liters
Annual fuel costs saving	101,119	USD
Annual maintenance costs saving	3,000	USD
Annual savings on generator enhanced life span	2,190	USD
Annual number of trips saving	78	Trips
Annual trips cost saving	23,400	USD
Total OPEX & CAPEX Savings Using ZON Control	129,709	USD
Total savings per 5 years for all sites	648,544	USD
Total OPEX & CAPEX Savings (Fuel Factor Excluded) Using ZON Control	28,590	USD
Total savings per 5 years for all sites	142,950	USD



129,709\$ SAVED!

Your Expenses Before & After using ZON Control



Monthly Fuel Behaviour and Fueling Trips per Generator

