

## FleetGen - *and the optional Tru-Batt™ technology!* Transportable Generator Management Solution

Ayantra - a leading developer of remote asset management products - has created a solution tailored for managing transportable generators.

### The Challenge:

Generators must be monitored to ensure optimal performance. Portable generators are particularly difficult to monitor, since they are frequently moved. Key challenges include:

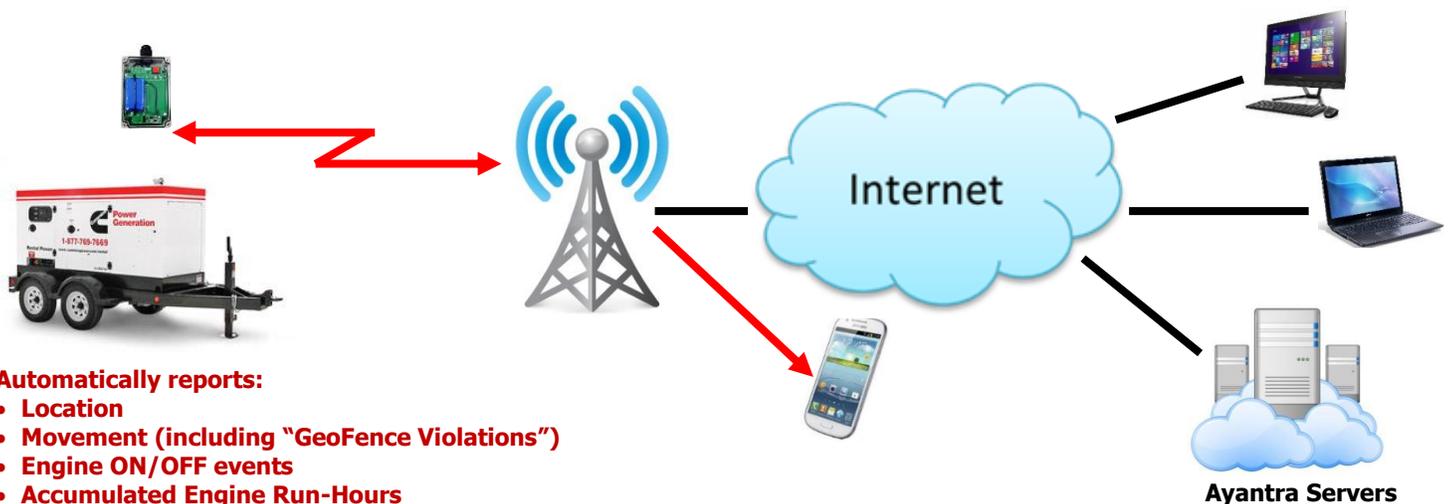
- Tracking each generator's Location
- Logging each generator's Engine Run-Hours to ensure timely maintenance services
- Detecting Faults to implement timely repairs
- Monitoring Battery Voltage Levels to ensure proper start capabilities
- Maintaining Usage Logs to satisfy regulatory agencies  
(CARB, AQMD, and other agencies may require detailed reports of each machine's accumulated Engine Run-Hours and also its utilization by location)



Monitoring remote generators is a difficult task. Ayantra can help.

### The Solution:

FleetGen is a web-based wireless monitoring solution for managing generators. FleetGen can manage any make or model of generator, and it easily supports hybrid fleets. ***With the average cost of a truck roll @ \$75 or more, remote generator monitoring starts to pay for itself right away.***



#### Automatically reports:

- Location
- Movement (including "GeoFence Violations")
- Engine ON/OFF events
- Accumulated Engine Run-Hours
- "Curfew Violations"
- Faults (optional)
- Battery Voltage Level  
(optionally measured w/out assistance from the charger)
- "Service Due" reminders

The total solution consists of:

-  **An Ayantra monitoring unit** installed on the generator
-  **Ayantra-provided wireless messaging services**
-  **An Ayantra-provided website** to deliver information about each monitored generator

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**Note: this product incorporates unique Patented and Patent-Pending technologies developed by Ayantra**  
Specifications subject to change GEN - ver 5.1 (Nov 2017)

# FleetGen

## Transportable Generator Management Solution

### Key Features:

- 🔗 **CAPABLE OF SUPPORTING ANY MAKE OR MODEL OF GENERATOR**, including hybrid fleets
- 🔗 **AUTOMATICALLY REPORTS ESSENTIAL INFORMATION:** FleetGen automatically reports each generator's:
  - 🔗 **LOCATION**
  - 🔗 **ENGINE RUN-HOURS**
  - 🔗 **STATUS** (Running or Not Running)
  - 🔗 **FAULT STATUS** (Faults or No Faults)
  - 🔗 **BATTERY LEVEL**  
(the optional Tru-Batt™ technology reports battery level without assistance from the battery charger)
- 🔗 **BATTERY REPORTS / BATTERY ALARMS:** Utilizing Ayantra's optional "Tru-Batt" technology, FleetGen reports the generator's true Battery Level (meaning the Battery Level is measured without assistance from the battery charger). FleetGen can also send real-time Alert Notifications if any battery or alternator problems occur.
- 🔗 **DAILY HEARTBEAT MESSAGES plus REAL-TIME UPDATES & ALERT NOTIFICATIONS:** Each FleetGen monitoring unit sends an automatic update each day (the "Heartbeat" message). The monitoring unit also reports Engine ON/OFF events as they occur, and it sends hourly updates while the engine is running. Each unit also includes six user-configurable digital inputs to report Fault events. Each Fault event can trigger real-time Alert Notifications sent as text messages and/or as email messages directed to specific recipients. Users can select which types of Faults to monitor. Typical examples include: **Common Alarm, Low Fuel, Low Coolant Level, High Coolant Temp, Low Oil Pressure, Overcrank.**
- 🔗 **SECURITY FEATURES - "GEOFENCE" and "CURFEW":** FleetGen can report if the generator is moved from its proper location, or if it is utilized during an improper time of day or night.
- 🔗 **ALARMS FOR BATTERY PROBLEMS AND/OR ALTERNATOR PROBLEMS:** FleetGen can send Alert Notifications if the battery goes low or is disconnected, or if the alternator is not performing properly.
- 🔗 **REMOTE ENERGIZE (optional):** Users can access the FleetGen website to remotely Start / Stop any monitored generator. The Remote Start/Stop operation can be performed manually or automatically on a schedule.
- 🔗 **MAINTENANCE REMINDERS:** FleetGen can send "Service Due" reminders as each machine approaches its service interval. Service intervals are user-configurable, and each reminder can be directed to specific recipients.
- 🔗 **REAL-TIME UPDATES:** Authorized users can collect up-to-the minute updates from any machine, at any time
- 🔗 **AQMD REPORTS:** FleetGen provides utilization reports to comply with California AQMD reporting requirements (similar reporting capabilities are available for other states).
- 🔗 **DATA EXPORT:** The database information can be exported upon demand.

### Hardware Specifications:

|                              |                                 |
|------------------------------|---------------------------------|
| ❖ Physical:                  | 5.00" x 3.50" x 1.55"           |
| ❖ Power:                     | 8 - 32 volts DC                 |
| ❖ Power Draw:                |                                 |
| Active:                      | 65 mA (typ) @ 12V               |
| PowerSave:                   | 40 mA (typ) @ 12V               |
| ❖ Built-in back-up battery   |                                 |
| ❖ Environment:               |                                 |
| Monitoring unit - Operating: | -32°C → +60°C                   |
| Monitoring unit - Storage:   | -45°C → +85°C                   |
| ❖ Humidity:                  | 0 - 95 RH @ 40C                 |
| ❖ I/O Ports:                 |                                 |
| Input Ports:                 | 7 Inputs (6 user-configurable)  |
| Output Ports:                | 2 Outputs (1 user-configurable) |



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