

## /IOTCONNECT®

## Avnet's Smart Generator Monitoring powered by IoT &amp; AI

## Challenges

### Take remote control of your genset and obtain daily operational insights

Will a sudden power outage directly affect your overall productivity? Do you have a requirement to monitor generators installed at multiple sites?

If you answered "Yes" to any of the above, then Avnet's AI-based Smart Diesel Generator Monitoring is the solution you've been looking for to guard your business continuity. We monitor the vital KPIs that you require from your remote generators to help manage your business's efficiency and provide you with peace of mind.

- Better asset monitoring
- Improved equipment reliability
- Centralized monitoring
- Fuel monitoring and pilferage control

## Avnet /IOTCONNECT Solution

### Drive down your operational costs with genset monitoring system

By implementing Avnet's Smart Diesel Generator Monitoring solution, you can significantly improve equipment reliability, streamline maintenance processes, and drive operational efficiency. The system's AI-driven insights and interactive dashboards provide total control over fuel consumption, performance, and maintenance scheduling, enabling proactive management and optimized generator performance through data-driven decision-making.

Whether you're managing a single generator or a fleet across multiple sites, this solution offers the tools and insights needed to ensure business continuity, reduce operational costs, and maximize the return on your generator investments.

## Benefits



### »» Real-time monitoring

Monitor the critical parameters of every DG in real-time and receive alerts via SMS/Email for immediate actions.

### »» Security and surveillance

Constantly monitor the access of entry and exit points as well as people movement within the premises and get alerts when unauthorized access occurs.

### »» Automated Scheduling

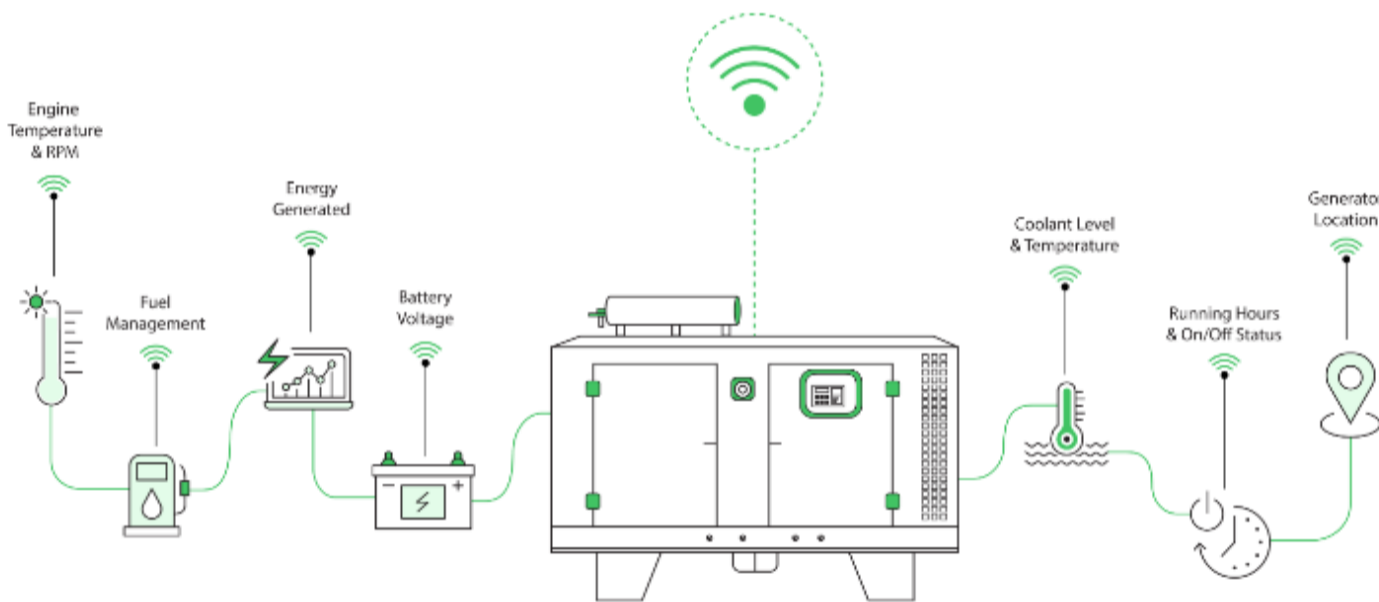
Turn your DG sets on/off remotely from anywhere by eliminating manual handling and experience increased user convenience.

### »» Reporting Dashboard

Receive daily, weekly, or monthly reports on daily fuel consumption rate and easily identify a mismatch in energy produced and fuel consumed.

# Avnet's Smart Generator Monitoring on AWS

Our solution allows you to remotely control your generators from anywhere with an internet connection. You can schedule on/off times, monitor fuel levels, consumption, coolant, engine temperature, RPMs, noise levels, power output, capacity, and running hours, and detect anomalies. Sensors collect data from your generators and send it to our IoT platform via a gateway. Machine learning algorithms analyze the data, delivering insights to your mobile devices for health monitoring, scheduling, and predictive maintenance. In case of faults, the system sends email/text alerts, notifies a monitoring station, or triggers alarms. Key features include real-time fuel/leak monitoring, alert notifications for deviations, mechanical issue detection, root cause analysis, fuel theft alerts, remote management, interactive dashboards, and predictive maintenance capabilities.



## Highlights

Our smart Facility solutions are powered by a modern networking infrastructure platform that works with the current system with minimal disruption.

- **Accelerate ROI:** Our solutions feature state-of-art technologies such as advanced analytics, deep learning and artificial intelligence that provide real-time visibility and simplify the implementation of higher ROI solutions.
- **Comprehensive security:** We follow best practices to ensure that all data are properly secured by following the highest standards in compliance with various industry and federal regulations.

## Features

Avnet's AI-based Smart Diesel Generator Monitoring solution, built on Amazon AWS, offers a comprehensive approach to safeguarding your business continuity. This end-to-end system provides centralized monitoring and control for multiple industrial diesel generators, allowing you to optimize performance, reduce costs, and increase reliability.

### 1. Remote Control & Scheduling

- Turn generators on or off from anywhere with an internet connection
- Automatically schedule specific on and off times

### 2. Comprehensive Monitoring

- Track fuel levels and consumption
- Monitor coolant levels, engine temperature, and RPMs
- Detect abnormal noise levels
- Measure power generated, capacity utilization, and running hours

### 3. IoT Sensor Integration

- Install sensors on generators to collect crucial information
- Send data to our IoT platform via a gateway

**/IOTCONNECT is available for subscription and a free trial on AWS Marketplace [HERE](#)**



**Get started with Avnet /IOTCONNECT solutions on AWS**

Contact our IoT experts – <mailto:@Avnet.com>

