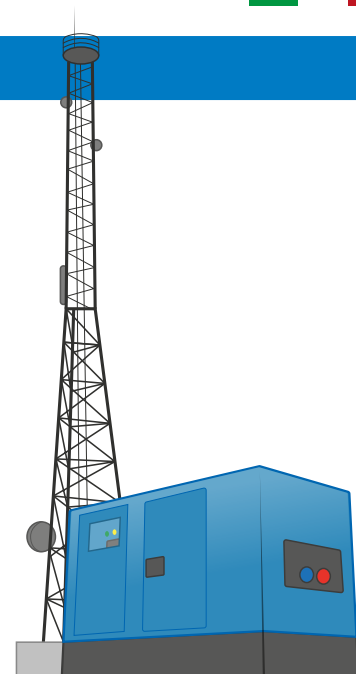


# Genset

Nethix devices are the best solution for those plants, where an auxiliary power supply may be required, whenever the main power source should fail.

We refer for instance to installations at radio **repeater towers**, **data centers**, **under construction sites** or **plants not yet connected to the network**. Generally speaking any situation, where power failures can frequently occur. In such applications gensets are widely applied (Diesel-powered gensets or others): they can power the plants even for long periods, avoiding any possible data loss and the damaging of the devices installed in the field.

Considering that this type of plants are normally located on remote and hard-to-reach areas, and even if the switching from the main power source to the auxiliary is usually an automated process, it's nevertheless necessary to keep the main parameters of the plant monitored, in order to grant the functioning of the system and the detection of any possible malfunction.



The **use of Nethix devices** (especially of **WE500** or other custom solutions developed according to the specific requests) allowed our customers to face similar situations.

Thanks to the communication protocols available inside Nethix devices (as for instance **GenComm**, **Modbus RTU/TCP** **IP** and **SNMP**) they can interface with gensets and battery packs available in the plants and detect in real time any critical issue connected to the functioning parameters, as for example:

- OIL PRESSURE
- COOLANT
- OVERSPEED
- BATTERY VOLTAGE
- FUEL LEVEL
- OVER CURRENT
- TEMPERATURE
- FUEL THEFT

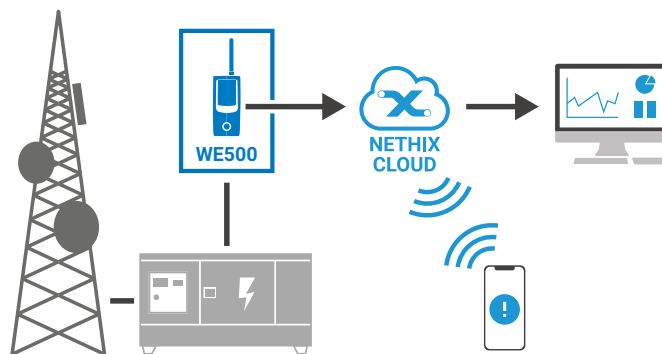
Beside a prompt alert notification, Nethix devices allow also to **remotely control** the generators, enabling the operator to activate the emergency stop.



The collection of all plant parameters on a centralized platform is another important feature usually required by the customers.

Nethix devices can in fact **send data to any external platform** (supplied by Nethix or a third party), using the most common communication protocols, as for instance **MQTT/S**, **HTTP/S** and **FTP/S**.

Through the integrated Modem, the data delivery can be programmed at regular intervals, set by the user.



Using **Nethix Cloud** the operator can visualize on one single interface all data collected from the deployed devices; this will allow predictive analysis, display of data on charts and tabs and the creation of a list of all alarms occurred on the plant.

**No additional software** is required for using Nethix Cloud: it can be reached through any common browser.