Issues based on the infrastructure and environment in Southeast Asia was picked up.

1. Necessary to correct LCS data using the reference level monitor.
2. Necessary to prepare the blackout and internet connection lost.
3. Prevent the fluctuation of electricity voltage.

Issues based on the infrastructure and environment in Southeast Asia was picked up.

1. Necessary to correct LCS data using the reference level monitor.

- To ensure the data accuracy of the LCS, periodic calibration is required every six months or at least once a year.
- For calibration, the reference machine and the LCS must be operated in parallel to value the LCS.
- Parallel operation of the reference machine and LCS is assumed to be performed by local staff, while the LCS valuing is handled by the manufacturer.

Issues based on the infrastructure and environment in Southeast Asia was picked up.

2. Necessary to prepare the blackout and internet connection lost.

- In GBiot's case, the data is stored locally on the SD card of the sensor device so that it is retained in the event of a power failure or loss of communication.

- It should be noted that after recovery from a power failure, sensors for gaseous substances such as O3 and NO2 require at least one day for normal operation.

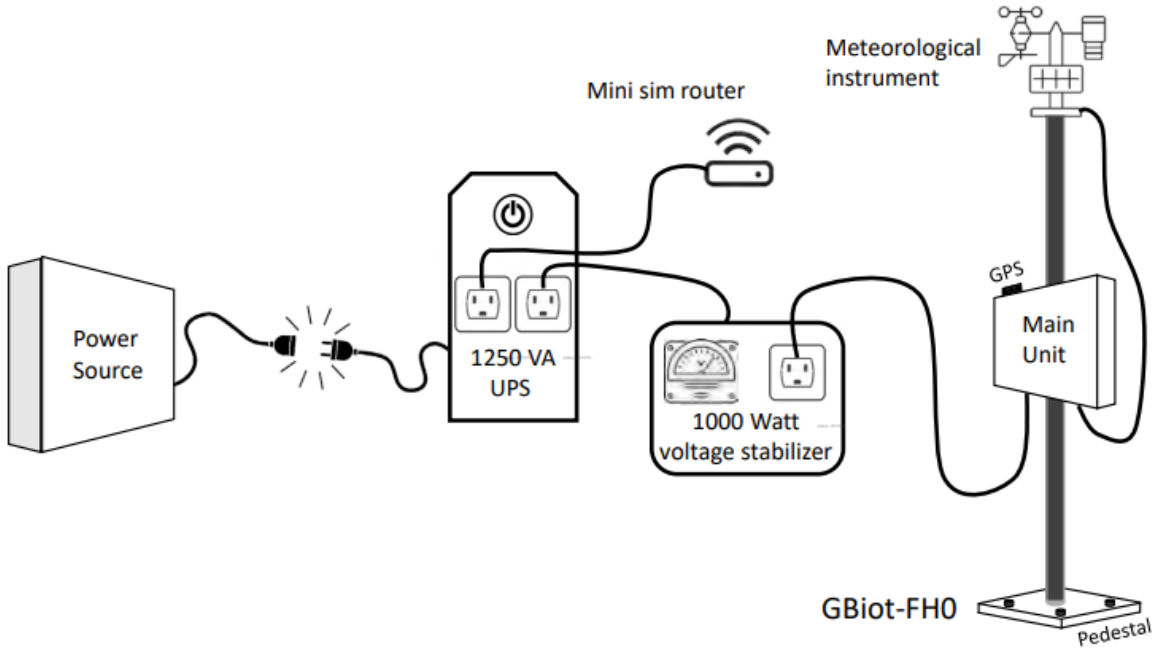
Although not applied in this case, the following methods are also available

- Implement battery backup and energy storage systems. This will not only allow us to respond to temporary power outages, but also prevent data loss.
- Implement solar, wind, and other energy harvesting technologies to ensure a sustainable power supply for sensing devices. This reduces the impact of power supply interruptions.

Issues based on the infrastructure and environment in Southeast Asia was picked up.

3. Prevent the fluctuation of electricity voltage.

- **Using UPS (uninterruptible power supply) and stabilizers to stabilize the power supply is effective.**



Source: Nippon Koei Co., Ltd.

Issues based on the infrastructure and environment in Southeast Asia was picked up.

(4) Effects of power disconnection on environmental sensing

- Frequent power disruptions can accelerate the wear and tear on sensing devices and associated electronic components.
- The cycling of power on and off can contribute to the degradation and earlier failure of these components.