

Energy Visualization to Support Energy Conservation

Wide Area Monitoring System

Are you having any problems like this?

Equipment

Plant facilities with local equipment and analog instruments scattered throughout

Problems

Plant-wide energy management over a wide area, grasping the status of energy usage



- ▶ There are many facilities throughout the plant, and although energy is monitored at each location, it is not networked and total energy is not monitored.
- ▶ For energy conservation, it is important to measure and manage the amount of electricity and steam used by each facility in a plant, but the process of converting data and creating reports is complicated and requires many man-hours.
- ▶ It is difficult to grasp where energy is being consumed within a plant and what points should be prioritized for energy-saving improvements.



Easy to start using! Wide Area Monitoring System solves remote monitoring issues



Facilities that exist in a wide area can be integrated and managed through remote monitoring.

The cloud can be used to reduce time and costs, and to efficiently build monitoring systems.



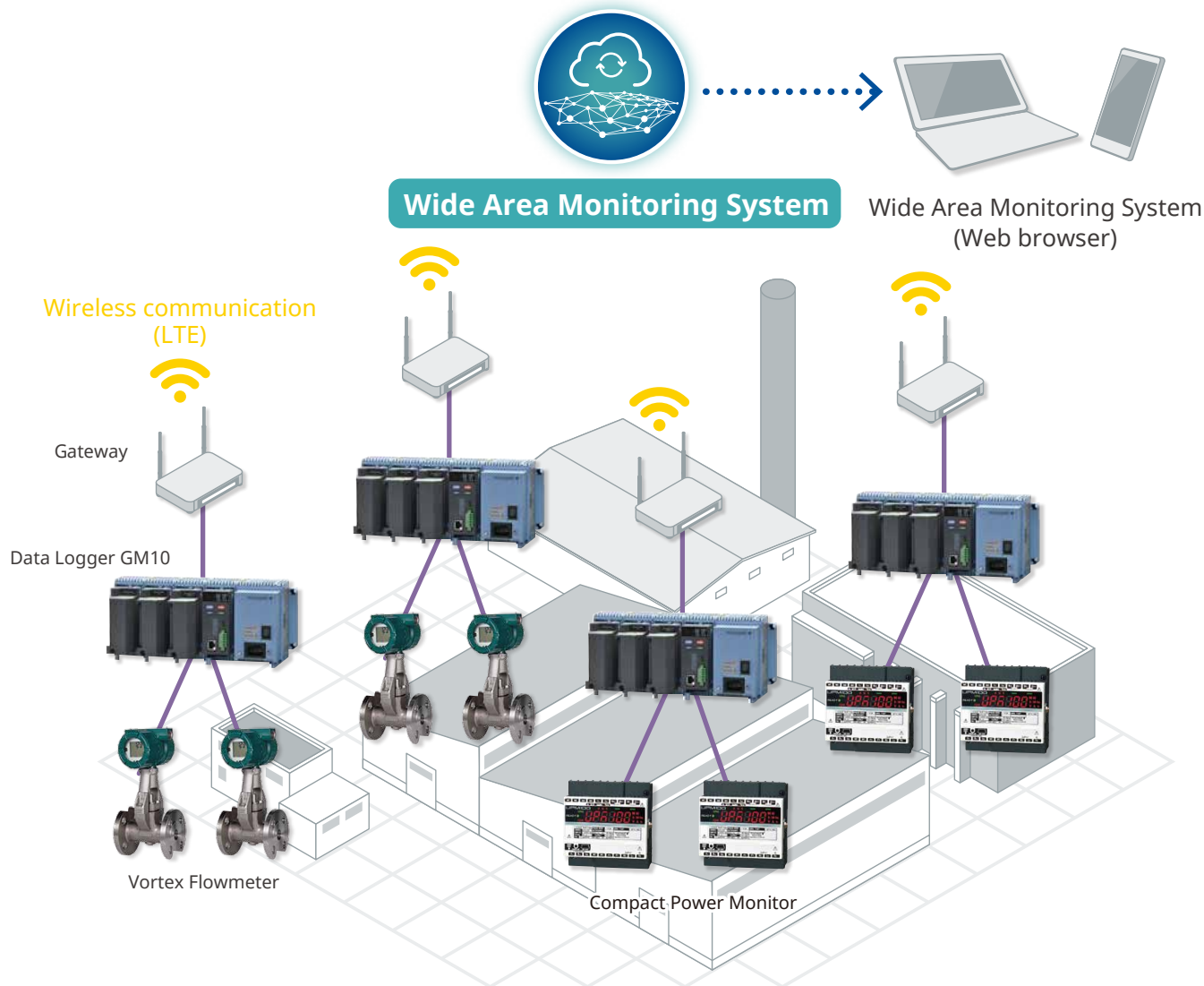
Value through problem solving

- ✓ Because the energy usage status of each facility is centrally managed in the cloud, the man-hours required for energy tallying can be significantly reduced.
- ✓ Visualizing energy use supports energy-saving by identifying equipment with high energy use.



Proposed System Configuration

The amount of electricity at the power measurement points and the steam flow at the steam measurement points are collected in a data logger and centrally managed using the Wide Area Monitoring System. This makes the energy usage of the entire factory visible, and also creates a report ranking the equipment in order of the amount of energy used, supporting energy-saving measures.



| ►Devices | Category | Product | Notes |
|----------|--------------------------------|---|---|
| | Cloud | Wide Area Monitoring System | Data acquisition interval: 5 min. or more, 50 measured data |
| | Communication | Wireless Communication Connection License | |
| | Comm. devices/data acquisition | Gateway, Data Logger | |
| | Sensor | Vortex Flowmeter, Compact Power Monitor | |

►Industries Chemical, food, and other plants with a lot of local equipment.

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