



Anticipate and detect anomalies



Anomalies are often detected too late

Alert thresholds are configured in the plants to warn operators of problems on the equipment or on a system.

These alert thresholds do not take into account certain factors or information (energy efficiency of equipment, feedback from other equipment, meteorology, etc.).

Operators are only notified of a potential malfunction when the alarm is activated, i.e. when the problem has already occurred.

When the problem is detected, there will already have been impacts on processes or equipment.

How this is an issue?

- **More time needed to detect an anomaly**
such as an abnormal energy consumption
- **Risk of complete system failure**
in case of late intervention
- **High maintenance cost, production downtime**

Anticipate malfunctions risks

With Purecontrol, it is possible to predict the risks of equipment malfunction, and to alter operators **before the anomaly has had an impact on the systems.**



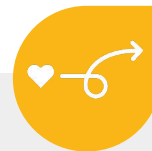
Anticipate malfunction risks



Predictive maintenance



Maintenance costs reduction



Process reliability

How?

The Purecontrol solution constantly carries out forecasts on the evolution of the parameters monitored within the plant (energy consumption, flow rates, level of storage of chemical products, etc.). The difference between the prediction and the real-time measurements reflect a malfunction in the overall system or on a particular piece of equipment.

Unnecessary alarms are also inhibited to prevent operators from going to a problem on which they will not be able to act.



Identify deviations and abnormal situations

Alarms can be triggered for a numerous amount of different cases, depending on the parameters monitored.



Clog detection



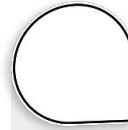
Leaks (drinking, chemical products...)



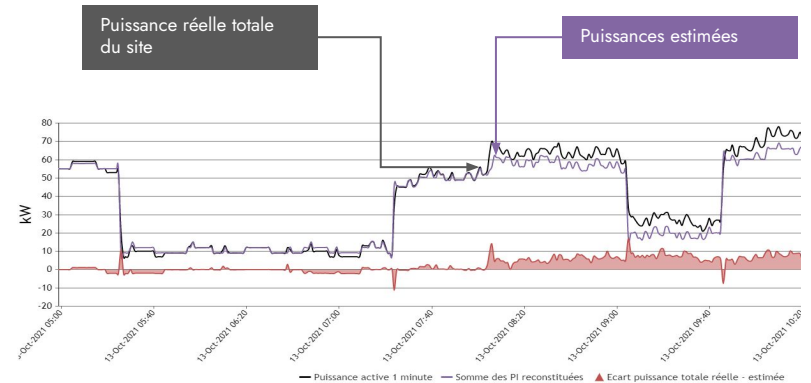
Sensor failure



Malfunction of an equipment



Example: Identify deviations in energy performance



The gap between the measured power and the simulated one indicates a malfunction of an equipment.

Purecontrol : simplifying operational optimization

Purecontrol develops real-time and predictive control solutions. They allow manufacturers, water and renewable energy players to make processes more reliable, to optimize energy and operational efficiency while reducing the carbon footprint.

Purecontrol solutions are easily integrated and control your industrial installations optimally by adjusting to a complex and dynamic environment.

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