

Anticipate and reduce the risks of wastewater overflow



Discharges of untreated wastewater are too frequent

The purpose of the pumping facilities located on the collection system is to transfer the wastewater to the treatment plant.

Today, there is frequent overflows on the systems, mainly due to the excessive volume of water to be collected.

These are caused by structural events (errors in the connection between the stormwater and wastewater networks and dilapidated pipes) and accentuated by cyclical events (rainy events, soil humidity).

Why is it a problem ?

- **A high health and environmental risk (environmental pollution)**
- **Construction projects frozen or postponed in some areas**
- **Impact on the economy, especially on professional coastal activities (tourism, shellfish farming)**

Optimize the management of wastewater networks

With the Purecontrol solution, it is possible to predict the risks of overflow of the lifting stations, and to adjust their operation in real time, especially by anticipating rainy episodes.



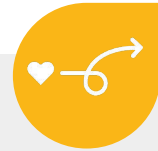
Overflow risks anticipation



Anomaly detection
(clogged pumps or network)



Significant reduction
of overflows

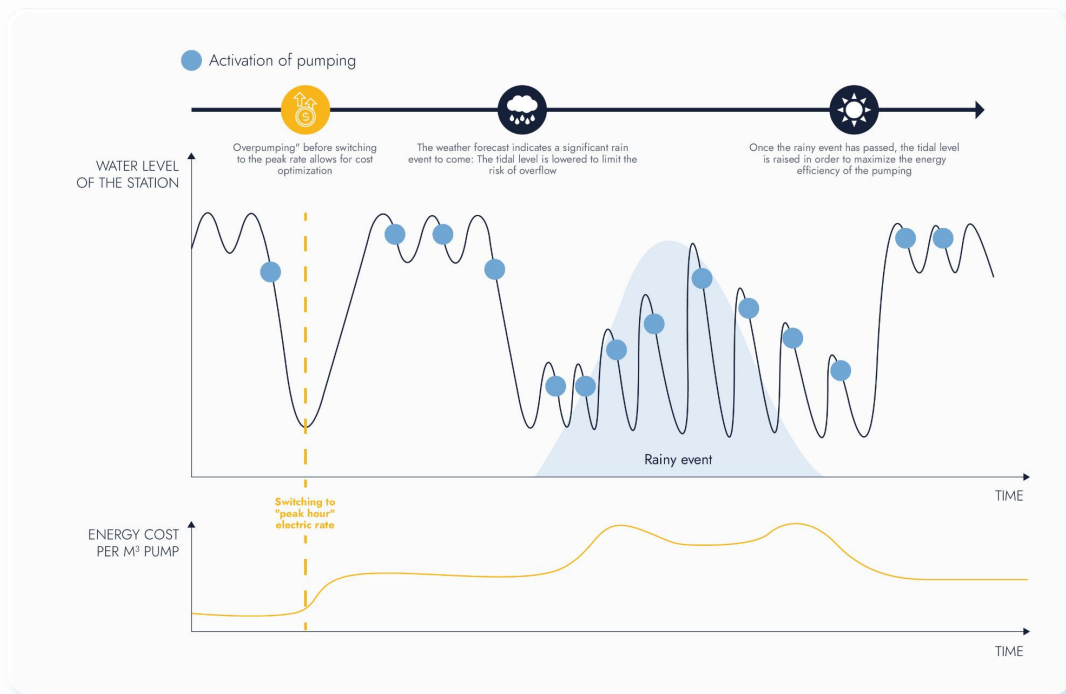


Reduction of energy costs
by up to 10%.

The Purecontrol solution continuously forecasts **the evolution of the monitored parameters in the wastewater networks and lift stations** (energy consumption, flow rates, storage levels, weather forecasts...). The operation of the facilities is thus optimized thanks to the realization of **dynamic tidal ranges** and **anticipated triggering of reinforced pumping modes**.

The Purecontrol solution also controls the systems by choosing to mobilize the most energy efficient pumps and by taking into account the different electricity tariff periods, thus reducing energy costs. The monitoring system associated with the solution also detects any anomalies (clogging) and immediately alerts the operators.

Limit the risk of overflows while reducing energy consumption



When a heavy rainfall event is forecast, the control solution anticipates the risk of overflows **by adjusting the tidal levels of the lifting stations.**

Once the rainy episode is over, the tidal level is readjusted for a classic piloting.

When there is no risk of overflow, the solution controls the pumping stations **to reduce the energy consumption of the pumps**, while alerting to any anomaly that may occur (e.g. pump clogging, defective 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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