

AQUADVANCED[®] Plant

360° optimization of
water treatment plants



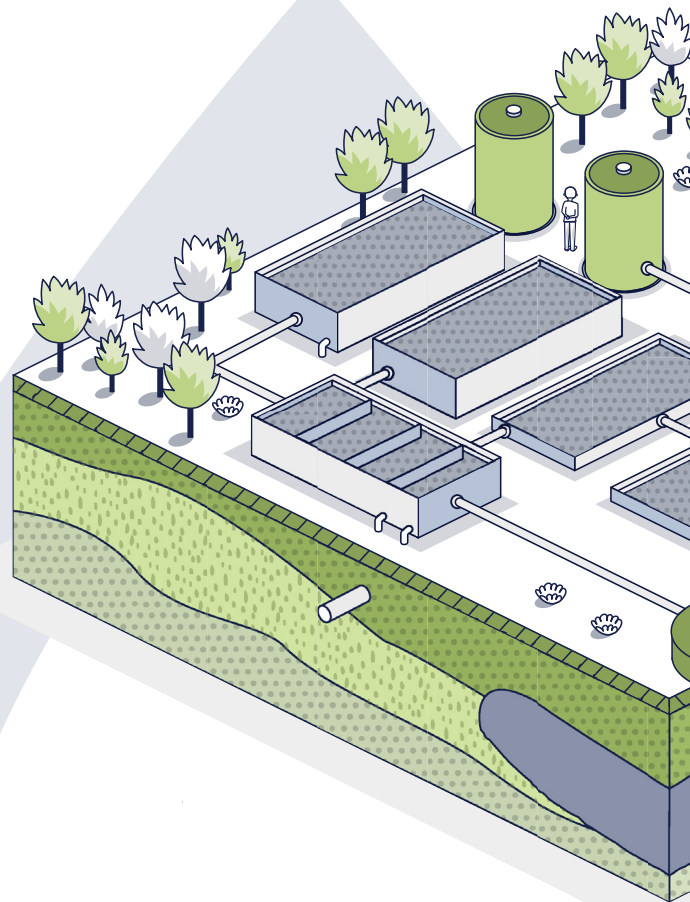
SUEZ presents AQUADVANCED® Plant, an innovative solution for the 360° optimization of water treatment plants

Highly energy-consuming, **water treatment plants** have to evolve to benefit from predictive maintenance solutions, secure operations and optimize their processing processes, which are particularly costly in terms of reagents.

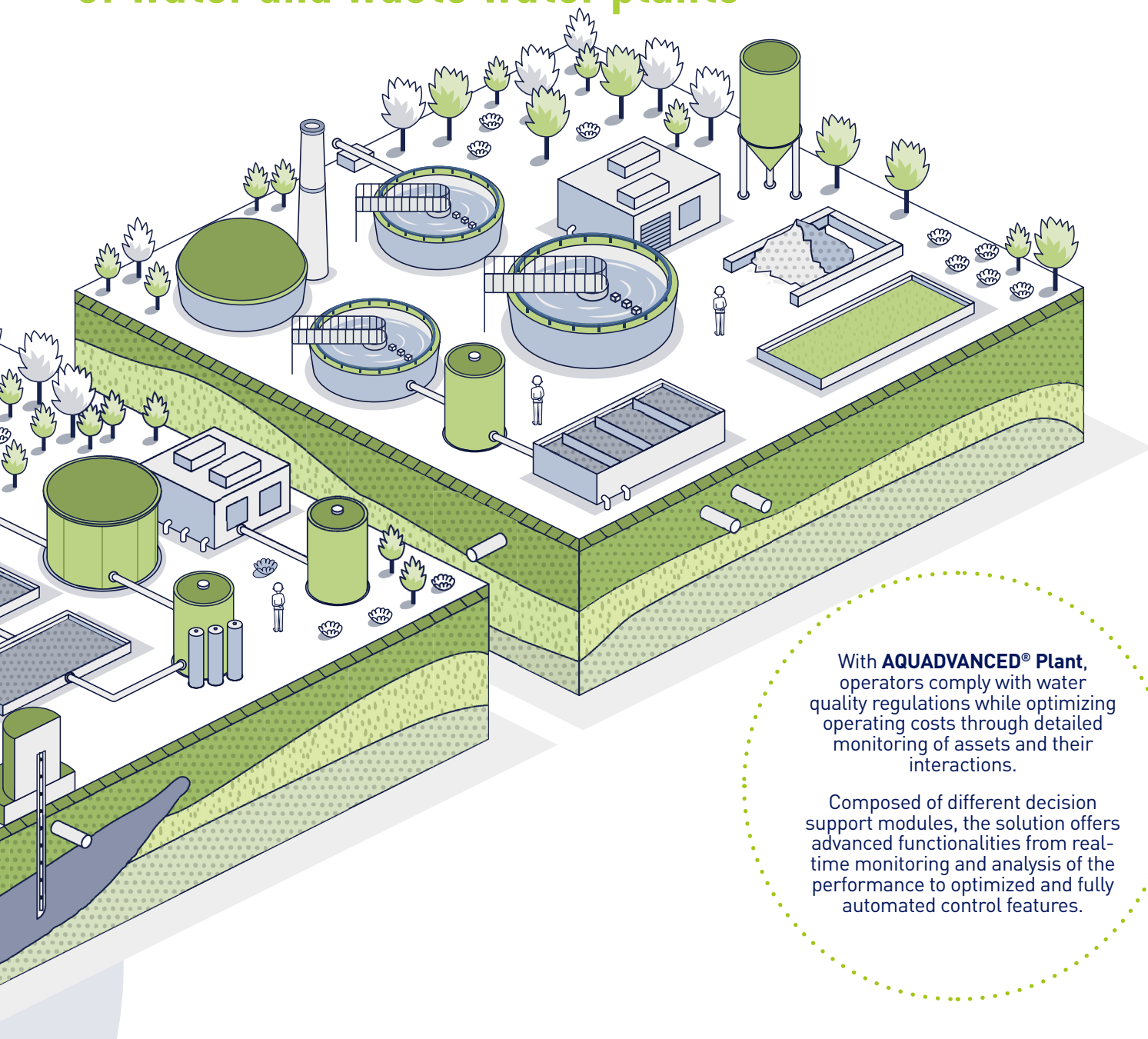
AQUADVANCED® Plant is an advanced system that allows operators to comply with water quality regulations optimizing operating costs (energy, chemicals) thanks to a detailed monitoring of the assets and their interactions.

AQUADVANCED® Plant is a modular solution that is adapted to any type of water treatment plant.

Depending on the performance objectives and the existing systems, the application can easily be completed with modules specific to each business line.



Real-time control of the performance of water and waste water plants



With **AQUADVANCED® Plant**, operators comply with water quality regulations while optimizing operating costs through detailed monitoring of assets and their interactions.

Composed of different decision support modules, the solution offers advanced functionalities from real-time monitoring and analysis of the performance to optimized and fully automated control features.

For the economic optimization and security of operations and agents

In real time, **AQUADVANCED® Plant** allows to :

- ▶ Optimize operating costs related to resource consumption, interventions and maintenance operations
- ▶ Rationalize asset investments
- ▶ Ensures the safety of field agents and security of infrastructure
- ▶ Guarantee regulatory compliance
- ▶ Offers a customizable hypervision accessible at all times





From hypervision to prediction and **real-time plant control**

AQUADVANCED® Plant is composed of three expert modules that optimize process and asset management.

1. Monitoring

- ▶ Real-time and daily monitoring : treatment processes, availability of assets and operating time, energy and reactivities consumption, interventions, safety, operating costs...
- ▶ Early detection of malfunctions and smart management of alarms
- ▶ Real-time and multi-plant dashboard customizable by operators

2. Predictive analytics

- ▶ Preventive maintenance adapted to the equipments condition
- ▶ Real time modelling and prediction : process, assets, hydraulic, quality, odors, chemicals, water consumptions, energy
- ▶ Predictive alerts
- ▶ Aging models of equipment and renewal strategies (pumps, membranes...)

3. Advanced control

- ▶ Settling & filtration optimization modules
- ▶ Optimized management of olfactory nuisance (0 complaints)
- ▶ Optimized management of anaerobic digestion & co-generation
- ▶ Control of the biological treatment aeration

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