

FORECAST : IMPROVING MANAGEMENT OF FIRST FLUSH & STORMWATER EVENTS

Suitable to all combined sewer networks and biological wastewater treatment plants



WATER TECHNOLOGIES



Wastewater operations are increasingly facing external challenges such as **stricter compliance requirements**, **heavier & more frequent rain events**, etc.

These factors are highlighting the importance of more **stable operations** and **hydraulic capacity optimization in sewer** network and/or at the WWTP.

Hubgrade Wastewater Plant Performance* optimizes your plant by aggregating **real-time data**, applying **analytics, algorithms**, and **AI** developed with Veolia's worldwide expertise.

Your plant's performance is then continuously optimized: aiding **compliance** with **effluent permit**, reducing **energy consumption**, deferring **costly expansion** of hydraulic capacity, evaluating potential risks **ahead of rain event** and **sustainability**.

RESULTS OF Hubgrade

by VEOLIA

WASTEWATER PLANT PERFORMANCE *

UP TO
100%

INCREASE
OF
HYDRAULIC
CAPACITY

UP TO
85%

REDUCTION
OF
COMBINED
SEWER
OVERFLOWS

UP TO
75%

REDUCTION
OF CAPEX

UP TO
100%

IMPROVEMENT
OF EFFLUENT
QUALITY

OTHER BENEFITS OF REAL-TIME OPTIMIZATION

SUSTAINABILITY

By decreasing the usage of **electricity & chemicals**, increasing the production of **biogas**, improving the **effluent** quality and reducing **N₂O** emissions, HWP can reduce the carbon footprint of treatment plant by 60 %, from **scope 1 to scope 3**. Going even further in creating some scope 4 gains (also known as “avoided emissions”).

COST OPTIMIZATION

By improving the **overall operational efficiency** of the plant, HWP can reduce in the same time: **electricity** costs, **chemical** usage, **effluent** fines and **taxes** while increasing the plant’s **hydraulic & biological capacity**, **biogas** production, **phosphorus** recovery etc all these with the effluent quality as the first objective. Leading to both **CAPEX** and **OPEX** savings.

EMPOWERMENT

By **continuously monitoring** various parameters, **analyzing** data trends and leveraging AI, HWP can **alert** operators to potential challenges, **before they would be detected** by traditional technologies. It will help the operators to **be in control** of what is happening in their plant. The **more proactive** the solution is, the **less pressure** the operators will have.

*formerly named: Hubgrade Performance Plant