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Selected by IPALLE, John Cockerill Environment built a brand-new wastewater treatment plant in Templeuve, Belgium

A brand-new activated sludge type, wastewater treatment plant (WWTP) has recently been inaugurated in Templeuve. It is the 49th WWTP operated by the Walloon intercommunal environmental management body, IPALLE. The construction of the wastewater treatment plant has been entrusted to a consortium between John Cockerill Balteau (Belgian entity of John Cockerill's Environment Sector), Tradeco and TRBA, for an amount of two million euros financed by the Belgian SPGE (Société Publique de Gestion de l'Eau).

With a capacity of 1,000 inhabitant equivalents, this new installation purifies wastewater from homes located at the south of the village of Templeuve. This investment proved to be very necessary as domestic water used to be released directly into the rainwater network.

Drawing on its experience and know-how, the Environment Sector's Belgian entity, and specialist in water treatment - John Cockerill Balteau was not only responsible for carrying out the electromechanical and process study, and the sizing of this new wastewater treatment plant, but also the equipment supply: a screen, a biological basin and a clarifier. After passing through a thickener, the sewage sludge is transferred to a larger treatment plant for dewatering.

These newly designed facilities are located close to the composting slab in operation since 2015, thus forming a real environmental hub. The juxtaposition of the installations not only allows economies of scale by reducing the size of the administrative building, but also for synergies by treating the liquid from the waste composting in the WWTP, before recovering the treated water as service water for the composting facility.

More generally, this project allows to improve the water quality of the entire Scheldt basin and to achieve the 2027 objective imposed by the European Framework Directive on Water.

In terms of sustainable development, the installation is one of the finest examples in this field. To promote landscape integration and biodiversity, a valley section has been created at the exit of the plant allowing to balance run off flows, while also acting as a flood compensation zone, since the plant is partly built on a flood hazard zone.



With a capacity of 1,000 population equivalent (PE), the treatment plant takes care of wastewater from the south of Templeuve (Belgium).



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Press contact

Specialized press: anja.roxin@johncockerill.com +32 475 30 27 49

General and economic press : caroline.crevecoeur@johncockerill.com +32 475 30 20 09

