

eco-construction and eco-refurbishment of pumping stations for the optimisation of the river neuve / Pierrettes hydraulic system - France

INDUSTRIAL site, HQE® APPROACH: PUMPING stations, water management and climate risk

Client Institution Intercommunale des Wateringues

LOCALISATION Calais and Hames-Boucres - France

Project MISSION Construction and refurbishment of hydraulic structures on the River Neuve / Pierrettes

CONSULTANTS SETEC HYDRATEC / AR ARCHITECTES

Date Detailed design studies - 2026



Site of the existing "La Batellerie pumping station"



Site of the future "Bassin des Chasses pumping station"



Overview plan of the pumping stations of the Bassin des Chasses and La Batellerie



Site of the future "Écluse Carrée pumping station"



Fort Risban, near the future "Bassin des Chasses pumping station"

The River Neuve / Pierrettes hydraulic system optimisation project is set within a context of increased territorial vulnerability to flood risks, exacerbated by climate change. Located at the heart of the Wateringues system, the area is subject to the combined effects of heavy rainfall, high tides and storm surges, which limit gravity-based drainage towards the sea. The existing and proposed structures (pumping stations, retention basins and associated equipment) aim to secure water level management, reduce flood risks for urbanised areas, and protect populations and economic activities. The project also integrates landscape, environmental and heritage considerations, in order to reconcile hydraulic performance with sustainable territorial integration.