THE CHALLENGE

Morecambe wastewater treatment works in Lancashire needed to be upgraded by United Utilities in order to improve water quality and reduce storm discharges to protect bathing waters in Morecambe Bay.

THE SOLUTION

Nereda wastewater technology was selected by United Utilities for improved waste water treatment at Morecambe. C2V+ was chosen as delivery partner for the overall catchment solution, including a £17 million upgrade at the WwTW. Three new 4,000m³ Nereda reactors have been installed, within the footprint of the existing plant, with the capacity for treating a peak flow of 2,360 m³/hour of wastewater. The Nereda Installation is upstream of the existing sand filter tertiary treatment stage, while a new UV disinfection plant is also being installed together with treated water storage to avoid discharge at low tide.

THE OUTCOME

Due to be commissioned in 2018 and in full operation by 2019, the new Nereda installation at Morecambe will ensure that treated water meets tighter environmental standards, including a total nitrogen consent. In addition to its high effluent standards, Nereda's small footprint allows more flow to be treated and its high efficiency made Nereda an ideal solution for United Utilities at Morecambe.