

# Customer Case Study



## Adding a preventative maintenance program to Yorkshire Water's 15-year-old Wedeco UV disinfection systems at eight treatment plants reduced callouts by almost 70%.



REDUCING  
ENERGY



REDUCING  
EMISSIONS



REDUCING  
WATER USE

### The solution

Targeted disinfection is a crucial part of the wastewater treatment process, hence why Yorkshire Water has been operating Xylem's Wedeco TAK 55 UV disinfection systems for more than 15 years. The modularly designed system allows practically unlimited quantities of wastewater to be disinfected, with 100% safety and energy efficiency. Xylem coupled this existing solution with a targeted upgrade scheme and preventative maintenance program to increase asset resilience and operating efficiency, while reducing costs.

### The process

In collaboration with Yorkshire Water, we carried out a full analysis of the eight sites which use the TAK 55 system. This information was used to develop a risk matrix, which:

- listed all the key equipment on each TAK 55 UV system
- scored each piece of equipment on its probability of failure
- listed the cost price for replacing each item.

Yorkshire Water used the analysis to secure funding to refurbish the prioritised UV systems, which was carried out over two years. In addition, we embarked on a routine servicing regime of all the UV plants.

### The outcome

Yorkshire Water has seen a reduction in call outs of 66% and energy savings of around 25%. Most importantly the programme has reduced the risk of failure and site compliance issues.

***"We were able to bring each site up to a standard so that it would be easy to maintain and service. However, most importantly it resulted in less risk of failing and causing site compliance issues. Preventative maintenance strategies are vital to any process industry. For organisations like Yorkshire Water, downtime needs to be avoided at all costs so as not to affect the general public."***

**John Watson** Treatment Key Account Manager, Xylem UK & Ireland

**100%**  
safe and  
energy-efficient  
disinfection

**66%**  
reduction in  
call outs

**25%**  
energy  
savings

**2**  
year  
program