Mon. Feb 17, 2020

TEXT SIZE

Log in / Register

Advertise / Contact

WATCH





Wednesday, 20 May 2015 12:16

# The AMP6 Totex challenge - suppliers show how to keep wastewater processing costs down

font size

Print

In an Expert Focus article on Waterbriefing, Xylem and Mapal outline how the water companies can meet Ofwat's Totex challenge in AMP6 and keep wastewater processing costs

UK water companies follow a well-established five-year Asset Management Plan (AMP) to ensure continuous improvements in service delivery based on guidelines set by the regulator of the water and sewerage sector in England and Wales, OFWAT,

One of OFWAT's most important jobs is to regulate the industry price limits, ensuring that investors get sufficient returns while customer interests are not compromised through steeply rising water bills.

One area regulated by the AMP process is capital investment. In contrast to 2010-15 period, the capital investment limit for the 2015-2020 plan will be £44.3 billion, which is lower than the projections supplied by the water companies at £45.7 billion. An immediate and inevitable consequence therefore is that the sector will need to enhance productivity and become more cost-efficient. This means buying smarter and in the case of wastewater treatment, managing sewage treatment and assets more efficiently.

Historically, the water companies have been targeted and positively incentivised to spend less on capital than is provided for in an AMP cycle, but for the period 2015 – 2020 this targeting has now been switched to the new concept of Totex, i.e. capital and operational expenditure. Going forward, this means companies will now need to focus not just on the cost of new installations, but also on operational and maintenance bills. Equally, the new OFWAT rules presents the utilities with a more complex challenge, namely to examine historical installations and determine whether it may in fact be beneficial to replace these with new technology offering lower operating costs

## Wastewater expenditure forecast at nearly £21bn in AMP6

Over the period of the Plan, wastewater expenditure is forecast at nearly £21 billion across all companies, with up to 50% of this accounted for by wastewater treatment costs, as the water companies are also obliged to improve performance to meet the new discharge standards prescribed by European regulation. Controlling wastewater processing costs is therefore likely to become highly significant, both in the context of existing and new installations

This presents a new raft of challenges for the water companies who may already have stretched resources. Now not only do new projects now need to be planned to ensure Totex compliance, but also existing installations will need to be audited to ensure they too pass the Totex test. The water utility firms may want to turn to the in house expertise available in Tier 1 contractors such as Xylem, who already have a track record of being able to dovetail with clients to fill in resource gaps and add value through specialist industry knowledge.

Adam Bond, Sales Manager - Biological Treatment at Xylem Water Solutions

"We now have a clear motivation for companies operating under the AMP regime to look at old installations and to see how they can lower current running costs. In some cases, these costs are may not be accurately captured or broken down in detail, so there could be work needed to set up new monitoring systems, for example. We can then use our experience to help determine if the

PR19 - SHOULD THE WATER COMPANIES CHALLENGE OFWAT DECISIONS THEY'RE UNHAPPY WITH?

REPORTS

Competition law expert Tom Sharpe QC discusses some of the issues about the water companies' options on deciding whether or not to appeal against Ofwat's Fina investment plans for 2020-

Click to read more

RISING TO THE CHALLENGE OF DELIVERING THE LARGEST EVER UK NATIONAL ENVIRONMENTAL **PROGRAMME** 

Stantec Technical Director Narinder Sunner assesses the challenge presented by the Water Industry National Environment Programme during the upcoming AMP7 2020-25 investment period

Click to read more

# **Expert Focus**

## **News Sections**

Company News

Water Issues

People and Places

Regulation and Legislation

Contracts

**Energy and Carbon** 

Biodiversity and **Ecoservices** 

Insurance

Finance and Risk

Flooding

**Technology Focus** 

Showcase

#### Latest Tenders

United Kingdom-

search...

Glasgow: Electrical

installation work.

Deadline:10.03.2020

United Kingdom-

Glasgow: Access covers.

Deadline:19.03.2020

United Kingdom-East

Kilbride: Foreign

economic-aid-related

services. Deadline:PIN

Sign up to receive the Waterbriefing newsletter: Email Address Join Now

#### Watch

Irish Water installs Sludge Drying Reed Beds at 5 wastewater treatment plants

Watch the installation of the reed beds in action and hear Claire Lyons Capital Programs Manager at Irish Water explain more about the pilot scheme which is based on a natural system naturally treats the sludge.

Hydro power in action at Daer

Watch hydro power in action at Scottish Water's Daer WTW water treatment works - the green electricity used on site or exported to the grid will avoid the emissions of almost 360 tonnes of carbon dioxide equivalent this year.

Scottish Water opens new £21m high-tech waste water treatment works

Learn more about Scottish Water's new £21 million Inverurie Waste Water Treatment Works - the plant has the potential to reduce the amount of energy used during the treatment process by half.

Click here for more...

## Top Stories

 Scottish Water tenders £160m motor control centre and systems integration contract

most effective way forward is to optimize the use of an existing asset or replacement with new technology such as that offered by Mapal GE.'

New technology providers such as Mapal Green Energy are also well positioned to add their experience in to the mix. Such experience is based on a proven track record of delivery green solutions in the wastewater arena which are both more efficient when it comes to delivering aeration and also more energy efficient in terms of power usage. Such technologies are likely to be essential in the battle to meet the Totex challenge. Mapal's floating fine bubble aeration (FFBA) systems are designed to outperform existing mechanical surface aeration units in wastewater lagoons, reactors, ponds and lakes. With no moving parts, energy bills are substantially reduced – by 22% in the case of an  $\,$ installation run by Anglian Water. Their new technology offers aeration systems with no moving parts and fast switchover possibilities, as wastewater plants do not need to be drained for new installations.

Mapal Green Energy CEO Zeev Fisher added:

"We believe AMP6 will give a huge boost to our plans to roll out our floating fine bubble aeration technology across the utility sector. We currently have active projects with Thames Water, United Utilities and Anglian, all of whom have recognised the important energy savings possible from our FFBA technology. Add to that lower maintenance and faster switchover times and we believe the Mapal proposition will be a powerful one for many who must now review their existing capital and total expenditure models in the industry."

Like Be the first of your friends to like

Published in Technology Focus

More in this category: « Ageing water sector networks offer strong revenue opportunities £25m EU backed tidal energy project attracts inward investment to Anglesey »

back to top

#### Other Latest News

- · Scottish Water tenders £160m motor control centre and systems integration contract
- · DFID to hold early market engagement event on proposed new £12m research Commissioning Centre model
- Government criticised over latest flooding events - Minister says "we've got a grip on this"
- Yorkshire Water tenders £800m AMP7 clean water network contract
- · Record number of flood warning and alerts -**Environment Agency** warns of ongoing flood risk
- Price Review 2019 -Ofwat says "investors need to face up to the new reality"

- · Government criticised over latest flooding events - Minister says "we've got a grip on this"
- · Yorkshire Water tenders £800m AMP7 clean water network contract

# Login / Register

Username

Remember me

Login Forgot login?

# **New Account** Registrations

To register for a new account with Waterbriefing, please contact us via email at waterbriefing@imsbis.org

Existing waterbriefing users - log into the new website using your original username and the new password 'waterbriefing'. You can then change your password once logged in.

# **News** Showcase

• Award-winning Much Wenlock flood alleviation scheme protects small town from flooding

The multi award-winning Much Wenlock flood alleviation scheme is a £2 million project initiated by Shropshire Council to reduce flood risk to homes, businesses and highways in the small town of Much Wenlock.



· Yorkshire Water - MUS and PMP Utilities complete complex repair works

Morrison Utility Services (MUS), the UK's largest dedicated utility service provider, has collaborated with sister M Group Services company, PMP Utilities, to complete complex repair works on a leaking sluice valve on behalf of Yorkshire Water



 HUBER Technology expands Aftersales Service and Hire **Division for AMP7** 

Specialist HUBER Technology is focusing on growth of its aftersales services and support to customers with the significant expansion of the Aftersales Division.



· Bursts reduced as game-changing DNS system addresses 'lost air valves

In response to what is a serious industry-wide issue whereby the location of hundreds of thousands of air valves is not known, Designed Network Solutions (DNS) have introduced a new Critical Air Valve Monitoring System



Company News

Water Issues

Latest Tenders