



Summary



Industry:	Water & Waste Water
Application:	Geared Drive
Actual Saving:	£82,000
Payback Period:	N/A



ERIKS ensure ATEX regulations are met

Solution found for Water Company to ensure a digester on a water plant could be back up and running as soon as possible

ISSUE

ERIKS were called to a large Water Company to investigate a geared drive for the number four digester. These gearboxes are used to prevent grit settlement in the bottom of the digestors as an excessive grit build up can reduce the produced gas, having a negative effect on power generation onsite through fuel deficiency.

The existing drives had not been used for a very long time and a repair was needed as the tank was being cleaned and re-constituted.

SOLUTION

Upon viewing the existing drive system it was decided to have it removed from site to check the possibility of a refurbishment of the drive. The existing drive system had an exposed drive chain that in operation is not compliant with ATEX regulations. Also the existing gearbox could not be re-certified for use without the manufacturers specific information, who was no longer in existence.

It was then agreed a standalone drive, that complied to all current ATEX requirements, would be supplied.

After the new unit was placed on order and under way it was then requested a new electrical feed to the digester gearbox was supplied. This was discussed onsite and a feed point was established. All components were then designed according to ATEX Zone I (inside the Pump house) and Zone II (outside the Pump House and at least +2m from any Wesso Valves) requirements and the electrical works then carried out.

OTHER BENEFITS

- Increased efficiency
- ATEX regulations met

FURTHER COMMENTS...

"The new drives work perfectly and we are now producing much more Gas for the CHP plant than before".

Water Company Customer

MORE INFORMATION

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