



## Summary

**Industry:** Utilities  
**Application:** Bevel Gearbox for Scraper Drives  
**Actual Saving:** £7,000  
**Payback Period:**



## Replacement Gearbox, Motor and Inverter Increase Efficiency

ERIKS increase efficiency for large Utilities customer

### ISSUE

A large Utility company called on ERIKS expertise to investigate the scraper drives on their primary settlement tanks. ERIKS identified that they were made up of obsolete motors and gearboxes, and there were no longer any spares available to repair them. Reverse engineering of the spares had become expensive and time consuming so ERIKS provided some recommendations.

### SOLUTION

The existing drive consisted of a worm gearbox fitted with a sprocket mounted onto a shear pin hub that was driven by a motor via a belt. ERIKS suggested removing the existing inefficient drive system and replacing it with a bevel gearbox, with a new shear pin hub and 2.2kW EFF1 motor controlled by an inverter.

This solution provided the client with more control over their process, as the inverter allows the customer to control the speed of the scraper, thus also increasing its' efficiency.

### OTHER BENEFITS

- Energy savings achieved with a smaller motor and a more efficient drive system
- Faster turnaround time for spares and repairs

### FURTHER COMMENTS...

The use of an inverter has the additional benefit of reducing mechanical wear, by softening the start ups.

### MORE INFORMATION

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