



Summary



Industry:	Oil & Gas
Application:	Conveyor drive system
Actual Saving:	£undisclosed
Payback Period:	Undisclosed



Fenner Motor and Inverter Reduces Downtime

A conveyor line motor changed to a more efficiency and reliability Fenner unit

ISSUE

ERIKS sister company, Calor Gas, required assistance on their overhead conveyor system. The overhead conveyor is critical to the efficient operation of this facility and the prospect of any unscheduled downtime would need to be avoided. The conveyor was driven by two obsolete eddy current motors which were synchronised together to provide variable speed drive to a pair of gearboxes.

Upon initial inspection various faults were identified in both the drive units and associated control system. The repair option was immediately excluded - the manufacturer no longer existed, and parts were impossible to source.

SOLUTION

After a comprehensive evaluation, the ERIKS Drives Engineer was able to recommend a replacement drive package, incorporating two IE3 Fenner motors and two Fenner QD:Neo inverters. The motors were installed and inverters retro-fitted into the existing panels, thus, minimising any additional installation costs.

The two inverters were installed as a pair in what is called "Master & Slave Mode". This ensures the motors operate at a matched speed and share the total conveyor load requirements over both drives.

To guarantee the success, ERIKS provided a site engineer to set up and commission the inverters. This was carried out with a fully loaded conveyor running at both maximum and minimum speeds

OTHER BENEFITS

- Improved drive solution
- 'Off the shelf' products
- Reliable starting and accurate speed control

FURTHER COMMENTS...

Calor Gas were extremely happy with the outcome and a commission release document was signed by both parties to confirm project completion.

MORE INFORMATION

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