



GAS FUEL POWER STATION REPLACES ROLLERS ON 4 SCREENS, SAVES £60 000

HOW WE CREATED VALUE

Old rollers replaced with new Split-Rollers without removing mainchains

Chain bush clearance dropped from 15mm to 2mm

Minimized screen downtime



THE CHALLENGE

SloeCentrale is a gas fuel power station, in the Middleburg area of the Netherlands. In 2009, four (4) dual flow bandscreens were installed to protect the cooling water pumps.

During a sales visit, an Ovivo rep had the opportunity to see one machine running without covers (screen run hours = 41528). The mainchain links were in good condition but the rollers had 15 mm of clearance to the chain bush. A new chain begins with less than 1 mm clearance and is replaced at 10mm. This excessive amount of clearance changed the efficiency of the screen by bringing moving parts into contact with the seals around the screen.

Replacing mainchains requires the isolation and draining of the chamber, removal of the mesh frames, cutting and removing the chain in suitable lengths, installing new chain and refitting the mesh frames – a procedure that takes approximately eight days - time when the bandscreen is unavailable for service, and time the plant owner did not have.

OVIVO'S SOLUTION

With the other chain parts in good condition, the Ovivo rep suggested that instead of replacing good chain at a substantial cost in time and money, the customer should consider replacing the existing rollers with Ovivo's new split roller assembly, which does not require full chain removal and replacement, with dramatically reduced downtime.

With a cost savings of approximately £60,000 overall and a projected three day stoppage for split roller replacement for each of the four screens, the customer chose the split roller option.

Without draining the chamber, the existing rollers were cut from the chain at deck level and Ovivo's quick and easy to install split rollers were fitted onto the screens. The clearance to the chain bush is now 2 mm, given that the bush had also worn, but well within the design parameters for efficient operation.

The process was completed in two days.

