



ENVIRONMENTAL TECHNOLOGY

## CDPH™ boosts MTBF from four months to seven years

The installation of a CDPH™ double mechanical seal along with an EasyClean™ seal support system proved to be the remedy for the frequent failures of a competitor's seal at a power plant in Denmark.

The failures were happening on average every few months on the plant's three fluid gas desulfurization pumps. The seal would break each time a pump stopped, resulting in a total of 11 breakdowns in just three years. Each repair was costing around £2,500, and the plant was running at minimum capacity while the repairs were carried out.

Following consultations with the company, AESSEAL® recommended the installation of the more robust AESSEAL® CDPH™ seal and EasyClean™ seal support system. These were installed in the autumn of 2017. The seal's large ports and generous radial clearances mean that it is able to maintain a stable fluid film, and its drive mechanisms are designed to minimize the possibility of seal face damage.

The EasyClean™ vessel has been developed from the AESSEAL® water and oil API plan 53a barrier fluid management system. In addition to all the features that come with the standard offering of such a system, the EasyClean™ vessel can be easily dismantled for inspection and cleaning. A clamp in the bottom section of the vessel can be removed when required and the internal cavity can be checked for deposits.

In contrast to the average MTBF for the previous seal of just four months, the CDPH™ operated successfully for almost seven years until the first planned maintenance was carried out in June 2024. The return on investment was achieved in just 12 months. With this greater reliability came reduced labour costs and a significant increase in plant running time. Following the success of this installation, another Danish power plant has now adopted the same system.

## 'Return on Investment achieved in just 12 months'

Industry:	Power
Product:	CDPH™ and EasyClean™
Application:	Fluid Gas Desulfurization Pumps
MTBF Increase:	2000% (and counting)
Savings:	>£50,000
Reference N.O:	TD3106996



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