



DMSF upgrade saves over £460,000 a year

One of the largest Bioethanol production plants in Europe was having a failure every 2 months on a group of pumps in the distillation area of the plant, costing over £75,000 per outage.

The pumps are in a group of 4 and every time one fails the plant has to run at reduced capacity. The pumps are continuously running and the high temperature of the process fluid, which also includes up to 10% of solids, was causing the original seal arrangement to continually fail.

AESSEAL® installed a DMSF double seal with an SP3 25 litre system operating on an API Plan 53A. The DMSF incorporates a bi-directional pumping ring that delivers more barrier fluid to the seal faces than competing devices, ensuring the seal faces stay as cool as possible. The SP3 system was also supplied with finned tubing to further dissipate heat.

The cost to upgrade to the AESSEAL® solution was paid back within the first month and has saved the plant over £460,000 in the first year of operation. The upgrade is currently giving a 500% MTBF increase and is ensuring the Bioethanol plant is continually running at 100% capacity.



‘1 month payback period’

Industry:	Bio-ethanol
Product:	DMSF & SP3 System
Application:	Stillage Duty
MTBF Increase:	500% (and counting)
Savings:	£464,035
Reference N.O:	CH01154

