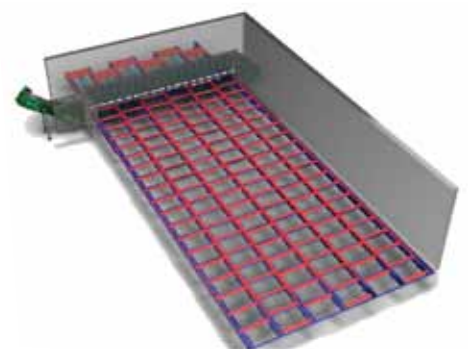


Aberthaw Power Station

Biomass Co-Firing System



Saxlund was awarded the contract to automate the biomass co-firing pilot plant at Aberthaw Power Station. The system makes use of an existing building and consists of a Push Floor flat floor bunker area which is loaded from delivery trucks and maintained full by a wheeled loader machine. The Push Floor discharges on demand and at a controlled rate, across a disc screen via a series of chain conveyors and into the existing and re-positioned fuel bunker. From here the material passes through a rotary feeder into a blow line and directly to one of Aberthaw's three PF boilers. The control system and cabling was included within the contract.



Aberthaw Power Station

Biomass Co-Firing System

Here at Saxlund, we thrive on being at the forefront of the bulk solids handling and storage industry. Our dedicated team of professionals are constantly developing new machinery and components, to ensure we give you the customer the best quality possible and keep Saxlund the industry standard.

Over the last 50 years our group have had constant demand from companies worldwide. We offer a complete solution - bespoke design, construction, commissioning and comprehensive "after-sales" support.

Our specialist knowledge, with particular expertise in flat bottom silos and bunkers, can be applied to bulk materials and alternative energy solutions for industries including cement, bioenergy, wastewater and recycling.

Technical Data

Saxlund project ref. no.:	SUK 1048
Year of construction:	2005
Power Station Output:	1500 MWe
Material Specification:	Wet Sawdust & other biomass materials
Material 1:	Sawdust, BD = 200 kg/m ³
Material 2:	BD = 650 kg/m ³
Material 3:	BD = 800 kg/m ³
Specification	
Discharge rate:	20 - 100 m ³ /hr variable
Equipment	
1 x Push Floor Discharge Machine	
Type:	SB-320-3x1400x18155
Dimensions:	1 no. 3 element field 4.2m (w) x 18m (L)
Average filling height:	4m
Storage capacity:	300m ³ - live
1 x Levelling Screw	
Type:	KA 490
Dimensions:	4.2m (L) x dia. 490mm
1 x Discharge Chain Conveyor	
Type:	TKF 800 HBL
Dimensions:	0.8m (w) x 13.8m (L)
Inclination:	0 deg. / 40 deg.
1 x Disc Screen	
Type:	TS 800
Dimensions:	1.6m (w) x 7m (L)
Screening Fraction:	7mm
1 x Screen Discharge Chain Conveyor	
Type:	TKF 800 LB
Dimensions:	0.8m (w) x 18.8m (L)
Inclination:	0 deg. / 35 deg.
1 x Oversize Chain Conveyor	
Type:	TKF 630 L
Dimensions:	0.630m (w) x 7.6m (L)
Inclination:	15 deg.
Discharge Rate:	10m ³ /hr
1 x Form 2 Control Panel	

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