



PLANT REPORT



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.

Saxlund products for silo and conveying technology:

- Solids Handling Pumps ● Troughed Chain Conveyors
- Screw Conveyors ● Combustion Plants
- Sliding Frames ● Control Systems
- Push Floors ● Rotary Valves
- Elevators ● Tubefeeders





Aberthaw Power Station

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
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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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