

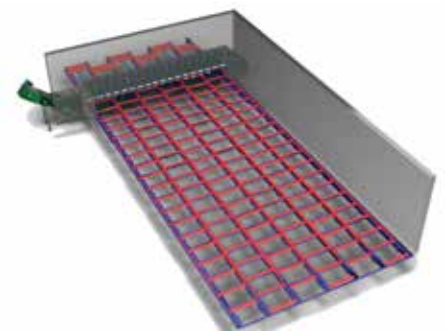
# Didcot Power Station

## Biomass Co-Firing System



Saxlund International UK won the contract to supply a biomass handling system for the new biomass co-combustion system at Didcot Power Station in Oxfordshire. The scheme incorporated a Saxlund Push Floor system and a large chain conveyor designed to handle a wide variety of biomass fuel materials between a wide range of feed rates. The system is designed with a live capacity of 500m<sup>3</sup> which is maintained at an average height of 4m by mobile plant from the static stockpiles of material within the storage building.

The material is discharged on demand by the reciprocating action of the Push Floor elements, and falls into the lower strand of the Saxlund Scraper Chain Conveyor, which itself discharges the material onto a belt conveyor.



# Didcot 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.	SUK1053
Year of Construction:	2006
Power Station Output:	1500MWe
Material Specification	
Material 1: Sawdust	Material 3: Conditioned Ash
Size: 3mm to dust	Size: 3mm to dust
Moisture: 2 - 50%	Moisture: 15 - 25%
Bulk density: 200 - 300 kg/m <sup>3</sup>	Bulk density: 1000 kg/m <sup>3</sup>
Filling Height: 4m	Filling Height: 2.5m max
Material 2: Wood Pellets	Material 4: Palm Kernels
Size: < 30mm	Size: 8mm to dust
Moisture: 2 - 15%	Moisture: 7 - 12%
Bulk density: 500 - 750 kg/m <sup>3</sup>	Bulk density: 600 - 700 kg/m <sup>3</sup>
Filling Height: 3.6m max	Filling Height: 3.9m max
Specification:	
Discharge Rate:	60 - 300 m <sup>3</sup> /hr (materials 1,2 & 4) Ash discharge rate 120 m <sup>3</sup> /hr
Equipment	
1 x Push Floor Machine	
Type:	ZB-280-6x1389x15155
Dimensions:	6 no. element field 8.3m (W x 15.1m (L)
Average Filling Height:	4m
Storage Capacity:	500m <sup>3</sup>
1 x Levelling Screw	
Type:	KA 500
Dimensions:	8.3m (L) x dia. 500mm
1 x Discharge Chain Conveyor	
Type:	TKF-1550-HBL
Dimensions:	1.55m (w) x 21m (L)
Inclination:	0 deg. / 31 deg

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