

SOLIDS & BULK HANDLING



**Move it.
Process it.
Distribute it.
Easy.**

FPE launches SuperFlow.

See pages 8 & 9

Alternative handler

Cost effective reception and handling of alternative fuels

Many sites are turning to alternative fuels for heat and power generation. The materials tend to be bulky and difficult to handle. Just how do you get tonnes of material from the road transport and into your plant reliably? The answer has been "not easily", until now. A new effortless solution lies in The Toploader (EU Patent No.882390), which takes the headaches out of solid fuel reception.

At first glance, The Toploader looks like a normal storage bay. The difference lies in the overhead track and carriage which is used to move material, when the process calls for material. A typical sequence of events would be; the delivery lorry backs in to discharge its load into the bunker. When the delivery is complete and the lorry has gone, a carriage automatically moves over the pile of material. When it gets to the front of the pile, an arm, fitted with a bucket, is lowered to the ground. The carriage then moves towards the back of the bunker, drawing the arm along which in turn drags material with it. When it reaches the back of the bunker, the material is discharged onto a cross conveyor which takes the material into the process. The sequence repeats itself and has the next load ready for when the process calls for more material.

The Toploader can handle all manner of bulky materials such as wood chip, SRF, MRF, sawdust, compost and animal waste to name a few. Such materials are famously difficult to convey. This is not an issue with The Toploader because it only delivers small amounts when required. This allows the process to keep the material moving and eliminates many of the handling problems that can be encountered elsewhere.

Large volumes of material can be stored even if the discharge rate is small. This means that savings can be made by ensuring that a full lorry load is delivered rather than having to pay a premium for a part load. As the lorry can discharge its load and go, there are no additional costs resulting from the driver waiting on site. Furthermore, the need to own a front loader



vehicle and pay for the operator is eliminated, making operating costs very low.

When compared to other alternative fuels reception technologies, The Toploader enjoys very competitive capital costs. It has the added advantage that it can be constructed on an existing flat concrete floor. There is no requirement to dig a pit for the actuators as these are all fitted overhead. The discharge point is well above ground level, allowing plenty of height to mount onward conveyors.

The Toploader only draws power when it is moving material. For a microgeneration project, this is crucial as it increases the amount of energy available for export and therefore increases the profitability for the scheme.

Where a heat or power project needs to receive large volumes of alternative fuels, The Toploader is ideal. It is simple to operate and simple to maintain. With a low cost of ownership and low running costs it is the key to a successful project. For more information contact Renby on tel: 01829 740913 or visit: www.renby.co.uk

