

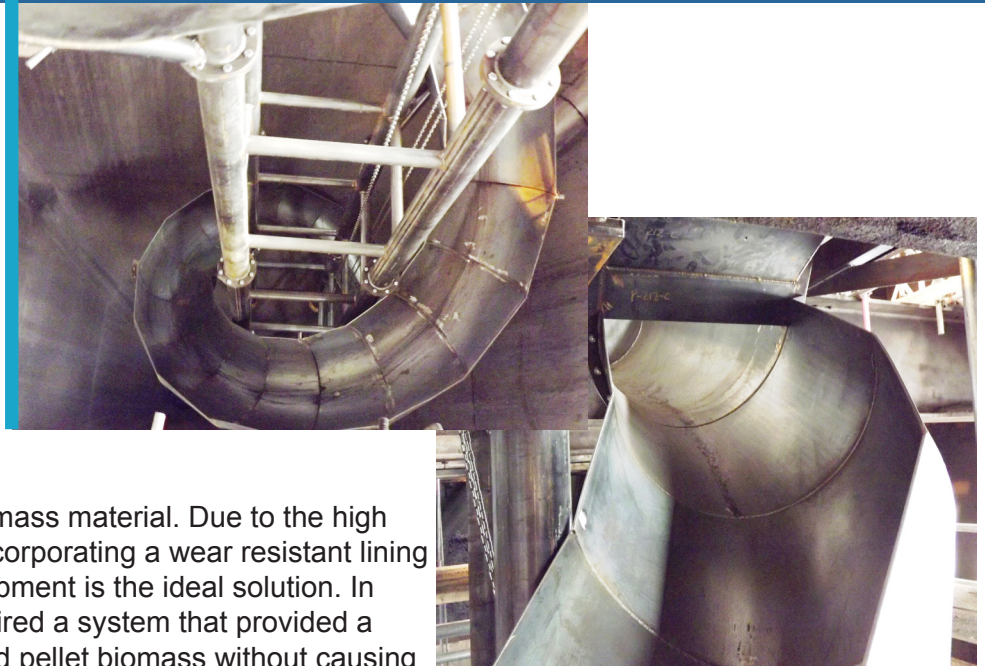
Industry
Energy From Waste

Plant
Wood Pellet/Bulk Terminal

Spiral chute for Biomass plant

Key Benefits:

- Improved wear resistance
- Increased operational uptime
- Eliminates confined space working
- Protects the environment



Problem: Many power stations are converting from coal to the use of biomass material. Due to the high abrasive nature of these materials, incorporating a wear resistant lining system within the plants process equipment is the ideal solution. In this particular instance customer required a system that provided a continuous, uninterrupted flow of wood pellet biomass without causing any material degradation to the process itself. Project awarded was to design, manufacture and install spiral chutes to transfer wood pellets into the storage/feed bunkers.

Solution: Kingfisher are able to demonstrate the different types of lining solutions available throughout the process of handling abrasive material within bulk terminal. From when the material arrives in the port they have developed various lining solutions protecting and enhancing the performance of the reception hoppers, the conveyor system, stacker reclaimers through to the rail loading facility. Throughout the process, equipment is subjected to impact, friction and sliding induced abrasion. By installing a combination of K-ALOX, K-BAS, K-ZAS and K-CLAD materials this takes into account the differing levels of wear at various points in the transfer chutes.

Benefit: The linings are supplied in various thicknesses, offering guaranteed long term protection of up-to (10-12 years-plus) against perforation of the fabrication providing the end user with a long term and cost effective solution. Kingfisher have been working with a number of power plants converting from coal to biomass