

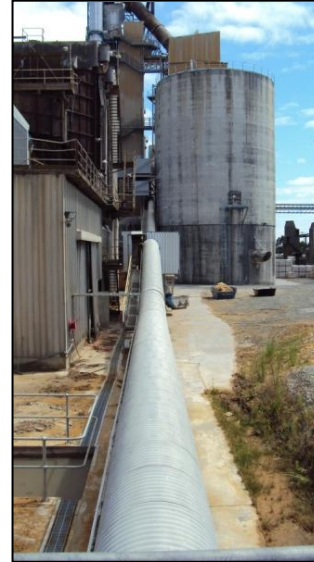


Wood waste feed system.



Wood waste feed system inspection hatches.

The conveyer from the reclaimer, > up to the kiln system riser duct, where the wood waste is combusted.



ALTERNATIVE ENERGY PROJECT

Traditionally, the thermal energy required for the production of cement at Golden Bay Cement's Portland plant has been derived from coal. A lot of cement plants around the world are now utilising alternative materials to provide energy for the process. In most cases these are derived from by products of other industries. Since January 2004 Golden Bay Cement has been utilizing sawdust and wood chip from the timber processing industry as a partial replacement for coal.

The substitution rate began at approximately 12% and has increased significantly to 26% as the process has been tested and proven over a number of years.

As wood is a biofuel and therefore a renewable energy source, it has lowered green house gas emissions from the manufacturing plant. This has prevented the emission of more than 52,000 tones of CO₂ equivalent gases in 12 months.

The wood biofuel is supplied by a number of, mainly local, forestry and timber processing companies. Other sources are being investigated to enable further increases in substitution rate. Most of this material was being land filled before this project was implemented so this is a much more environmentally friendly method of disposal.

In 2010 this project earned Golden Bay Cement the Fletcher Building 'Most Effective Sustainability Initiative Award', amongst nominations from the global Fletcher Building group.



Stockpiled coal, used as the main fuel for firing the kiln, is currently being supplemented by wood waste.



Wood waste loaded into the hopper from the storage pad, ready to be conveyed to the calciner, and then fed into the kiln.



The wood waste screw, pulling wood waste material from the hopper onto the conveyer.