



CONTINUOUS DRYING KILN SYSTEM LAUNCHED

A Windsor CDK system installed at the Southern Pine Products' Stillwater facility has trebled the mill's drying capacity.

The mill, near Greymouth, is using the CDK to dry high value, appearance grade Radiata pine for domestic and export markets.

Windsor currently has six CDK systems in operation or under construction around the world.

However, the Stillwater system is the first dedicated to appearance grade drying.

Windsor's technology guarantees significant thermal and electrical energy efficiencies and operational advantages, all of which reduce the cost of drying.

Windsor CDKs use the automated moisture measurement system DryTrack Echo to control the rate of drying in conjunction with the Dryspec CDK management package. This ensures that the timber stacks are advanced precisely through the CDK (using the two automated hydraulic pusher units).



The Windsor CDK at Southern Pine Products' Stillwater mill.

Southern Pine Products Director Mike Taylor said he and his team had been "very impressed" with the performance of the new CDK System and the quality of the drying.

"The Radiata pine lumber is dried gently through the process resulting in very little stress in the lumber once dried," Mike said.

"This means it stays straight and machines exceptionally well, with no discolouration."



Picture: Tetrapak's Mark Newbold and Prime Minister John Key in front of a Nyb 73" stainless steel exhaust fan for Synlait

MERGER SUCCESS FOR DAIRY INDUSTRY

A successful merger between Windsor and IPSCO is proving a winning combination with business for specialised dairy industry equipment steadily increasing.

New York Blower (Nyb) fans have been made under license by IPSCO in New Zealand for the last 40 years.

The success of these fans is represented through Nyb being the preferred choice for over 90 per cent of New Zealand's milk powder spray drier projects.

Recent contracts for the fans have included a new dairy-processing factory for Miraka (near Taupo), and Synlait's second milk powder spray drier in Canterbury.

Windsor also contributed to these projects by supplying large finned tube main air heaters and exhaust fan outlet attenuators.

Further orders are underway for a steam air heater for a new dairy project in Tasmania and another for a Victorian dairy project. Fans and attenuators for Fonterra's new Darfield dairy plant are currently under construction for delivery early next year.

NEW TRAINING AND TESTING FACILITY

An innovative new training and testing facility in Waiariki is set to transform the operations of the Trans-Tasman wood processing industry.

Waiariki Institute of Technology's Wood waste gasification project is a joint venture between Windsor Engineering, the Institute and the Energy Efficiency and Conservation Authority.

It provides a training facility for wood processing students at the school in a measure aimed at ensuring a supply of suitable future employees for the industry.

The venture partners have also developed an R&D test facility at which new gasifier technology can be more fully explored.

Once approved, this pioneering technology will be introduced into the New Zealand and Australian wood processing industry markets.

Windsor Engineering Director Maurice Davies explained that the facility was equipped with a gasifier – a wood combustion system – green sawdust and dry shavings fuel bins and a scraper conveyor for fuel transfer from the bins to the gasifier unit.

Other equipment includes gas and secondary air ducting between the gasifier and boiler, and an ID fan and flue.

"The aim is to replace the use of natural gas fuel for the existing boiler," Maurice said.

"It's cheap to operate compared to liquid and gas fuelled boilers and there is minimal particulate discharge to the atmosphere, with no downstream filtration required."

Other benefits include higher efficiency than burning on a grate, good control of combustion and reasonable levels of fuel moisture and high ash fuels tolerated.

Rotorua MP Todd McClay, Waiariki Director School of Forestry and Primary Industries' Jeremy Christmas joined with Windsor Engineering's Maurice Davies to officially open the facility.

Picture: Maurice Davies (Windsor), Todd McClay (Rotorua MP), Jeremy Christmas (Waiariki Director School of Forestry and Primary Industries)





VINA ECO PROJECT NEARS END

The new Sumitomo particle board plant, Vina Eco Board Co. Ltd, in Vietnam, is nearing completion.

All equipment has been installed and the Windsor air systems are in place. Commissioning of the plant is expected to be complete in early 2012.

Windsor has supplied all the fans and pulsejet filters to service the many material handling systems in this Dieffenbacher designed plant.

In addition, Windsor provided the pneumatic conveying systems to transfer waste material to the silos at the thermal energy centre.

Windsor's Gary Wilson project managed this contract, along with Roy Joyce and Digger Agnew, our Installation Supervisor. The team will be on site to test performance at the plant start-up.

INNOVATIVE SOLUTION FOR GAS DISPOSAL

Windsor has developed an innovative solution to help a New Zealand chemical producer safely dispose of hydrogen and other harmful gases.

The gas flare, designed and built to suit the specific requirements of Momentive Specialist Chemicals, is similar to previous designs with some important modifications.

Twin fans form two separate gas sources and the entire apparatus is constructed of stainless steel, ensuring a much longer lifespan.

Windsor Engineering's Mike Hampton said hydrogen was a difficult gas to burn safely.

"The gas flare uses the latest DURAG UV flame detector and controls with state-of-the-art flame detection," Mike said.

Rated for up to 5000m³/hr with dual gas train and connection points, the gas flare is also skid mounted with a 12 metre-high discharge point.

"The entire project was tailored to suit the client's specific requirements, which has also been key to its success," Mike said.

Momentive Specialist Chemicals, based in Christchurch, produces chemicals for various industries throughout New Zealand.



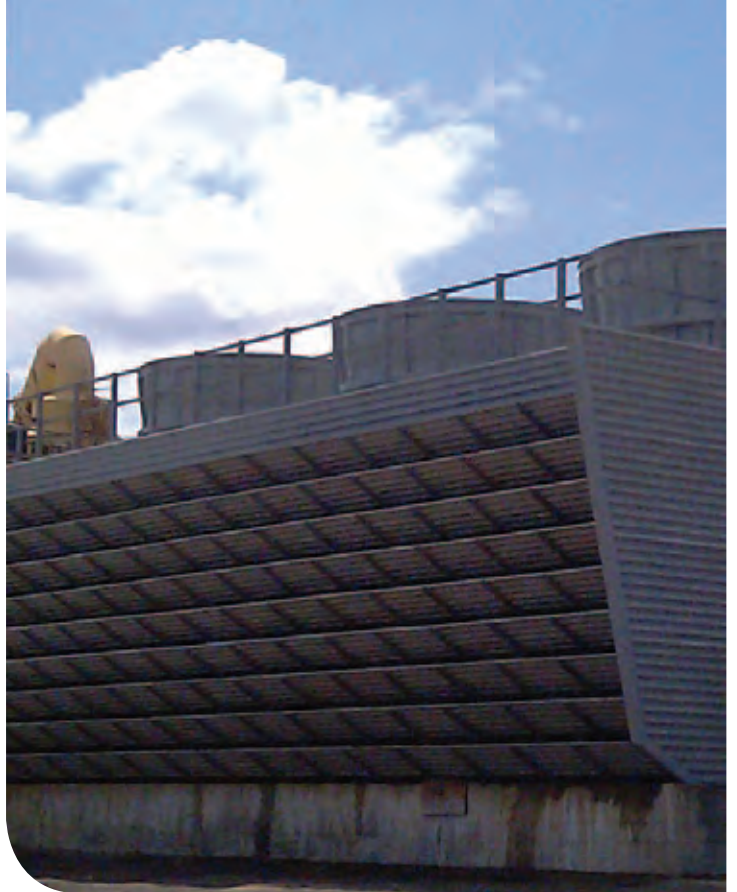
COOLING TOWER INSTALLED

An Evaptech three cell site erected fibreglass cooling tower was recently sold by Mark Holm and installed for a Napier client as part of their upgrade program.

This tower was erected on top of an existing cold water basin in a very tight five-week construction challenge, which we all managed to achieve.

A site team lead by Heyden Johnson and Windsor's Guy Randell, along with plenty of local support, managed to successfully replace this cooling tower during the accelerated construction program. The weather was atrocious for some of this period with snow storms and wind creating extremely unpleasant site conditions, however the team managed to meet the start-up dates.

This is the first Evaptech site erected tower in New Zealand and orders are already underway for more throughout the country.



IPSCO RELOCATION

Recently IPSCO relocated to new premises in Auckland which is better suited to their growing sales and distribution requirements.

Heavy manufacturing of the IPSCO fans and air pollution control equipment has been centralised at Windsor, Wellington. "With all the new opportunities the recent changes have brought on, we needed a better suited building to suit our future needs," says Mark Holm.

The new office is at 23 Druces Road, Manukau. Visitors are most welcome if you are passing through.

Happy New Year!

Windsor Engineering extends its warmest wishes to you and your family for a safe and happy new year.