



Improve your bottom line with Energy for Industry

Here's how they did it for some of New Zealand's leading organisations.



The urgent need for efficient energy use is top of mind for forward-thinking organisations all round the world. In New Zealand, Energy for Industry (EFI) has more than 10 years' experience in enabling cost savings, increasing efficiency, and reducing greenhouse gas emissions.

Energy for Industry is a business that has carved a unique position in the industrial and commercial energy sector by delivering energy solutions that meet customers' particular needs. EFI offers waste-to-energy options, including harnessing landfill gas, wood and other wastes to meet industrial and commercial energy needs. This is often combined with 'dual fuel' approaches, where boilers burning waste are teamed up with a current or new fossil fuel boiler plant. This means the customer gets the best of both worlds: significantly reducing cost and environmental impact without sacrificing security of supply.

The company has also successfully created new energy 'clusters', where neighbouring businesses share the benefits of an EFI owned and operated energy plant. An additional benefit to customers is EFI's certification within the Certified Emissions Measurement and Reduction Scheme (CEMARS®) scheme which provides EFI with an audited process to incrementally improve on emissions intensity targets year on year.

Just one example of how this can play out on the ground is EFI's Washdyke Energy Centre near Timaru. Here, EFI developed long-term partnerships with a number of local businesses to create an energy cluster based on a plant with two boilers, one of which is capable of running on 100% wood fuel, the other on coal.

The facility delivers heat to the participating businesses in the form of steam at competitive

prices, cutting operating costs and reducing the environmental impact. All without any compromise when it comes to the reliability of supply.

EFI is also pioneering the sale of electricity generated from gas produced at landfill waste sites. For example the electricity generated by EFI's generation plant located at the Silverstream landfill is marketed to one of NZ's leading residential retirement village owners distributed throughout New Zealand. The electricity is supplied at a fully variable rate and the village customers only pay for what they use, and it is combined with the latest water and space heating systems to allow the villages to control, manage and lower their power bills.

EFI has helped Christchurch City Council to provide heat from wood residues to dry waste solids from the Bromley Waste Water Treatment plant by using a flexible system of boilers that have the ability to run on wood residues, biogas, landfill gas or biodiesel.

The firm picked up the 2009 Energy Efficiency and Conservation Authority Award for Innovation for its work with Silver Fern Farms, one of the country's biggest meat producers. EFI partnered with Silver Fern Farms to develop a solution to the disposal of waste sludge which is converted into fuel for the boiler plant which in turn now creates process heat for their operation.

Taking an innovative approach to energy is a powerful way of future-proofing businesses and other organisations against energy price rises and future supply issues. It frees up people, resources and capital to focus on core business. EFI's work encourages everyone to think about the diverse alternatives that there are these days for energy management. By working together, we can make them happen, for the benefit of all.



Innovation in how we power business is vital

- The energy used for industrial processes is responsible for about 7.5 per cent of New Zealand's total greenhouse gas emissions - cutting them will make a major contribution to our efforts to tackle climate change.
- Kiwi innovation is giving us access to the market industrial energy management systems, which is estimated to grow to an estimated US\$22 billion (NZ\$27 billion) a year by 2020.

To find out how you can help your bottom line with energy efficiency visit:

www.energyforindustry.co.nz

P. 04 974 6410

E. info@energyforindustry.co.nz