

EMSOL UPDATE DECEMBER 2020



Emsol's December 2020 Update:

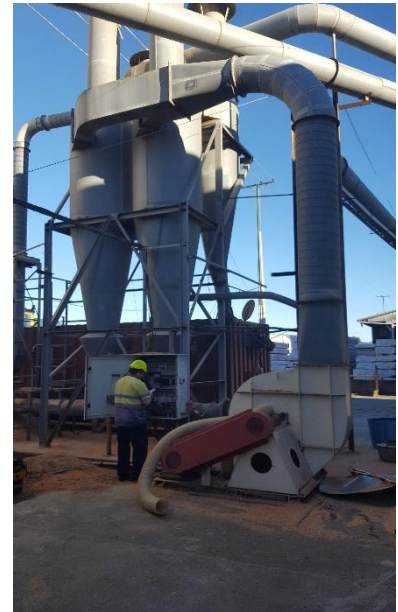
1. Eurocell Wood Products Cuts Electricity Use by 15%
2. Emsol's Experiences in Process Heat
3. Carbon and Energy Professionals NZ
4. Gordon Allan Tour Aotearoa, Cape Reinga to Bluff by Bicycle
5. Seasonal Greetings and Happy New Year

1. Eurocell Wood Products Cuts Electricity Use by 15%

Eurocell Wood Products Ltd is making significant gains in cutting back on its energy use. Emsol completed an energy audit in 2019 with funding support from EECA. Jonathan Barrier (Site Manager) and his team have been adopting a number of the recommendations from the audit.

This included smarter sequencing of their kilns by initially using wireless electricity submeters to better understand kiln efficiency. This is saving 230,000 kWh per year. They also focussed on compressed air and trained their cleaning team to use air hoses more diligently and switch off air compressors when not being used. Approximately 50% of air leaks have been fixed.

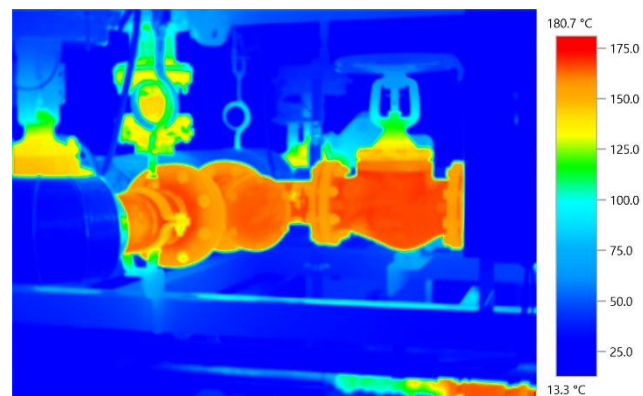
Eurocell has cut its electricity use by 15%. Jonathan knows there are many other recommendations and ideas to adopt. A new air compressor with VSD is ready to be installed. Staff are switching off more often equipment and lights when not being used. Eurocell uses wood residues for its process heat and is looking to optimise the use of fans throughout the site.



2. Emsol's Experiences in Process Heat

For over 18 years we have worked with a number of large industrial sites to improve the efficiency of their process heat systems. This has resulted in increased production, reduced energy use, or both.

We regularly see businesses with many untapped thermal energy savings opportunities. Emsol's clients have achieved between 10% - 40% in process heat energy savings. In addition to cost savings, minimising heat losses reduces the load on boilers or heat plant, making the working place cooler, safer, and more comfortable.



Heat recovery can provide significant savings. Using pinch analysis, we can optimise heat recovery options to match demands for heating. With reduced demand and heat recovery implemented first, a boiler replacement can be much smaller and can widen the range of suitable technologies, which may include high temperature heat pumps, or electrode or biomass boilers. This can lead to both capex and opex reductions.

3. Carbon and Energy Professionals New Zealand (CEP)

CEP provides training and accreditation programmes and this year CEP introduced training in carbon auditing and a Energy Auditor course. Since COVID, CEP switched several courses to online delivery. CEP also held its 2020 conference fully digital, and will be back in the South Island (Christchurch) for its 2021 annual conference. CEP ran webinars during the year, which attracted 1,600 attendees. CEP also travels around the country and managing in-person networking events in Auckland, Wellington, and Christchurch engaging with the Young Energy Professionals Network and Sustainability Society.

4. Gordon Allan Tour Aotearoa, Cape Reinga to Bluff by Bicycle



Starting a 3,000 km journey by bicycle on 7 November, Gordon rode from Cape Reinga to Bluff. Finishing Tour Aotearoa on 9 December, he averaged approximately 100 km each day.

The route follows many of the great rides throughout the country and is a mixture of single-track, gravel roads, cycle trails, and sealed roads.

With his passion for mountain biking, highlights have been riding the Bridge to Nowhere track, following historic gold mining trails near Reefton, and the scenery from Makarora to Lake Hawea.

5. Seasonal Greetings and Happy New Year

With the holiday break just around the corner, we would like to thank you for your business this year. It has been a pleasure helping you reach your energy and carbon reduction goals.

This time last year, who would have guessed what we would all be going through? It has been a challenging year for many.

We look forward to contributing to your success in 2021 and hopefully with much less turmoil.

We wish you, your team, and families a prosperous and Happy New Year!



WE WISH YOU
MERRY CHRISTMAS AND HAPPY NEW YEAR

Find Out More

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