



EMSOL UPDATE DECEMBER 2019

Emsol's December 2019 Update:



1. **More than just Energy Savings**
2. **Network Charges**
3. **Update on Erin's TA Walk**
4. **New Team Member - Gordon Allan**
5. **Seasonal Greetings and Happy New Year**

1. More than just Energy Savings

For many businesses, energy use is one of the largest sources of carbon emissions. Reducing energy and carbon not only benefits the environment, it reduces costs and increases profits, typically with very attractive returns on investment.



There are, however, many additional benefits that energy savings lead to that are often overlooked. For example, insulating hot surfaces improves safety and can lead to a more comfortable working environment. Properly commissioning equipment improves energy efficiency, reduces maintenance costs, and can extend the useful life of assets. Lowering head pressures on refrigeration systems decreases energy cost and increases refrigeration capacity. Monitoring energy use helps early detection of equipment failure, minimising downtime.

When presenting business cases for energy/carbon saving projects, it is important to include all the additional benefits. This strengthens the business case and gives it a better chance of being funded.

2. Electricity Network Charges

Network charges are often viewed as fixed costs. Whilst they can have fixed components or be set for the year (based on demand the previous year), the reality is there are always ways to reduce network charges. Emsol recently identified during an energy audit that a client could save \$7,700 per year simply by changing a nominated capacity value.

**The electricity
network in
New Zealand**

The key to identifying cost saving opportunities is understanding the cost structure behind the network charges. Charges vary geographically based on which company owns the local lines, and cost structures can be highly complex. Emsol's engineers are experts at navigating network charge structures and identifying where cost saving opportunities exist.



3. Update on Erin's TA Walk



Meanwhile, Erin is making good progress with his Te Araroa 3,000 km tramp from Cape Reinga to Bluff. He has passed the 25% mark and is now south of Hamilton. It's been tough at times with blisters and some long days. He has been impressed with the support and kindness of many people both on and off the trail. The coastal scenery and Kauri forests in Northland have been special and Erin was thrilled to see a kiwi from his tent early one morning in Whangarei Heads.

He would like to thank clients for their support and wishes everyone a merry Christmas and safe holiday.

4. New Team Member - Gordon Allan

We are pleased to announce that Gordon Allan has joined us as a Graduate Energy Engineer at Emsol.

Gordon has practical experience in energy engineering, including design and energy efficiency. His background as a Mechanical Engineer provides knowledge of heat, fluid management and energy generation.

Gordon has a mechanical engineering degree from the University of Victoria, in Canada. He has an interest in reducing energy use and carbon footprints.



Gordon's role involves delivering energy management programmes, including carrying out monthly energy monitoring and targeting. Gordon also assists with energy audits and feasibility studies. For more info about our team please visit our website (refer to link below).

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, and we look forward to contributing to your success in 2020.

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

Find Out More

Please contact Carl Newby (carl.newby@emsol.co.nz) or Abigail Zeng (abigail.zeng@emsol.co.nz) for more information. www.emsol.co.nz.

