

EMSOL UPDATE SEPTEMBER 2021



Emsol's September 2021 Update:

- **Whakatāne District Council honoured to receive Trust Horizon Sustainability Award**
- **Proactive Management of Cool Stores**
- **GIDI Fund Round 3**
- **Seasonal Refrigeration Opportunities**

Whakatāne District Council honoured to receive Trust Horizon Sustainability Award

At the Horizon Energy Group Business Excellence Awards 2021, Whakatāne District Council (WDC) elected members and staff were thrilled to have been awarded the inaugural Trust Horizon Sustainability Award on 14 August 2021.

The sustainability award focuses on businesses that reduce their impact on the environment and energy use. Moving to environmentally friendly, local, organic, or low emission alternatives were important parts of the judging criteria.



The entry for WDC's award focused on savings that were achieved as part of an energy management programme, which was introduced after an energy audit in 2018. WDC demonstrated 60% savings for natural gas use and almost 10% for electricity. The programme has saved WDC nearly \$200,000 and 600,000 kgCO₂e since its inception.

Proactive Management of Cool Stores Yields High Savings

EastPack's dedication to energy savings has saved more than 3,900,000 kWh in the past three months at its six Bay of Plenty sites. Refrigeration is the largest user of electricity, accounting for 80-90% of the electricity used at each site.

One site has used 52% less energy than baseline in the last three months, thanks to optimisation and proactive management of its cool stores. EastPack uses submetering to measure and benchmark its cool store efficiencies. This has enabled it to optimise refrigeration compressor settings, evaporator fans, and defrosts to minimise energy use. Knowing the efficiency of the cool stores enables EastPack to plan which stores to use and when.

Much of the savings are attributed to ongoing energy management work and creating a culture of energy saving. The magnitude of savings would not be possible without the support from EastPack's senior leadership.

GIDI Fund Round 3

Applications for funding have opened for round three of the \$69m Government Investment in Decarbonising Industry (GIDI) fund. The fund is open to all New Zealand-based and NZBN registered private sector businesses that use fossil fuels as the source of energy in their industrial processes and process heat. Organisations must have committed to a carbon reduction pathway and have a plan to deliver on it.

Previous rounds of funding have seen businesses receive between \$150,000 and \$4,000,000. The application deadline for round three of the GIDI fund is 12pm, 18 October 2021.



Seasonal Refrigeration Opportunities

With summer just around the corner, it is time to avoid excessive energy use by refrigeration. Warmer ambient temperatures often reduce a plant's refrigeration capacity. Listed below are recommended energy saving and capacity enhancing practices:

- Decrease compressor discharge pressure at night
- Condenser fans should operate at full speed on high humidity days. Consider 'over-speeding' if fans are on VSDs
- Clean condensers or cooling towers
- Increase the size of condensers or cooling towers
- Check the state of seals around doors and entranceways

Find Out More

Please contact Carl Newby (carl.newby@emsol.co.nz) or Erin Roughton (erin.roughton@emsol.co.nz) for more information.