

## Living Springs

### About the Company

Living Springs is an event, function, activity and accommodation centre. The business is located at 218 Bamfords Road, Allandale, Lyttelton.

### Introduction to the Project

Living Springs joined the Christchurch City Council Target Sustainability Programme in late 2009. The Target Sustainability Programme supports businesses to reduce waste and to be energy and water efficient.

Living Springs' objective at the time of joining the programme was to reduce waste sent to landfill and to become more energy efficient.

Living Springs implemented a range of projects to reduce waste sent to landfill and to improve energy efficiency.

### Target Sustainability Programme

#### Key Achievement

- **Reduced electricity use by an estimated 33,620kWh (\$7,400) per year.**



Living Springs Camp and Conference Centre

### Waste Reduction Initiatives

Living Springs implemented the following initiatives to recycle waste:

- Implemented a paper recycling collection system at staff desks.
- Implemented co-mingled recycling collection for plastic containers, glass bottles and metal cans in staff and guest areas.
- Implemented regular staff reporting on progress towards achieving recycling objectives.
- Extended the existing food waste collection system so that food waste on-site is either fed to Living Springs' pet pigs or pet chickens.
- Replaced paper hand towels in the toilets with jet air driers. This reduced waste generation by an estimated 20% and the units are saving an estimated \$3,050 per year through reduced procurement and waste costs at an estimated payback of 0.9 years.

The waste collection service provider did not provide weight-based monitoring data to Living Springs but instead provided waste estimates based on wheelie bins collected. It is important to ensure that weight-based monitoring data is collected to ensure the effect of waste reduction initiatives can be monitored and success measured.



Organic collection in kitchen © Copyright

# Energy Efficiency Initiatives

Living Springs reduced its electricity use by an estimated 33,620kWh (\$7,400) per year.

Living Springs implemented the following initiatives to increase energy efficiency:

- Installed heat pumps in the bunkrooms, breakout rooms and in the corridor to the auditorium to replace uncontrolled electric fan heaters. This resulted in an estimated energy saving of 18,620kWh (\$4,100) per year, a 60% reduction when compared with fan heaters.

- Installed ceiling fans in areas with a high ceiling to move warm air to lower occupied areas and reduce the time taken to heat areas, as well as reducing heat loss through the ceiling.
- Installed a pool cover to reduce heat loss from the pool. This reduced electricity use for pool heating by an estimated 56% (15,000kWh) per year, saving an estimated \$3,300 per year.
- Implemented a fluorescent bulb replacement programme to replace existing incandescent fittings.



Pool cover to reduce convective heat loss © Copyright



Jet air dryer © Copyright



High level fan moving air to occupied level © Copyright



One of several heat pumps installed © Copyright

## Summary

Since joining the Target Sustainability Programme, Living Springs has implemented a range of projects that have resulted in a reduction in waste sent to landfill and an improvement in energy efficiency.

*"We've worked hard through the Target Sustainability Programme to identify those areas where the savings can be most easily identified and implemented to ensure the biggest savings. It is our intention to continue to make improvements to our processes and invest in some capital projects identified through the Target Sustainability Programme – insulation and more efficient heating options for example – to ideally generate future savings. We are also mindful that not all these improvements result in a dollar saving but may only result in improvements to our environmental practices. Our environment is something that is important to us and we have undertaken a variety of other environmental projects."* Jon Ward, Operations Manager.

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