

# Case Study

## Lakeview Holiday Park, Wanaka



### Overview

Lakeview Holiday Park is a large accommodation provider in Wanaka, Central Otago. In peak summer up to 1,000 people stay per night in tents, campervans and cabins.

Aggi & Rudi Sanders, the Holiday Park lessees, have undertaken significant upgrades to the park. In 2016 they commissioned an environmentally sustainable and highly energy efficient building with four large bathrooms and a kitchen dining room.

These bathrooms provide showers for up to 700 people, using up to 12,000L of hot water per day in summer.

Aggi & Rudi asked Apricus and May Plumbing to design a high performance, environmentally sustainable and affordable water heating system.

The result? "It's great. I've had my first gas bill to compare with last year and it almost went down half and we were a lot busier this year than last year," Aggi Sanders.

The system was designed using drain back methodology to cope with the climatic extremes of Central Otago. This is a unique approach when using evacuated tube technology.

Despite the size being limited by roof area available the system is providing 39% of annual energy required to heat the water.



### Project Summary:

Project Name:	Lakeview Holiday Park
Location:	Wanaka, New Zealand
Array Size:	19 x ETC-30 collectors
Peak Output:	38 kW
Annual Energy Output:	45,506 kWh (2017-18)
Annual CO <sub>2</sub> Offset:	10 tonnes
System Format:	Drain back
Solar Preheat Storage:	3,825L
Back-up System:	168kW instantaneous gas water heaters & 1,700L cylinder



### Contact:

Apricus NZ – Marcus Baker – 07 312 3382  
[marcus.baker@apricus.com](mailto:marcus.baker@apricus.com)

May Plumbing & Gas – Mike May - 03 445 1663  
[mike@mayplumbing.co.nz](mailto:mike@mayplumbing.co.nz)

**Savings**

**Sustainability**

**Independence**

# Case Study

Genesis Energy building, Hamilton, NZ



## Overview

Genesis Energy are the cornerstone tenants of a new building in central Hamilton. The building was commissioned as a design build.

The building has a great central location on Bryce Street, Hamilton. This location and a focus on walking, cycling and public transport is a key part of Genesis Energy taking on the building.

There is bicycle parking and a number of showers for employees to use. This means increased hot water consumption and higher costs for the landlord.

A solar hot water system was seen as the ideal way to provide lower cost hot water and reduce the building's environmental impact.

Apricus NZ were commissioned by FB Hall & Co plumbers to model, design and supply a solar hot water system that would fit the developer's requirements.

On the strength of the design support for this project and product quality FB Hall & Co asked to become a long-term partner with Apricus. They are now promoting the product to other commercial and domestic customers.



### Project Summary:

Property Name:	Genesis Energy building
Location:	Hamilton, New Zealand
Array Size:	4 x ETC-30 collectors
Peak Output:	8 kW
Annual Energy Output:	~ 13,167 kWh
Annual CO <sub>2</sub> Offset:	~ 3.29 tonnes
System Format:	Open loop with ring main diversion
Solar Preheat Storage:	1,000L
Back-up System:	1,000L cylinder with 30kW electric elements



**F.B. Hall  
& Co. Ltd**  
Est 1923



### Contact:

Apricus NZ – Marcus Baker – 07 312 3382  
[marcus.baker@apricus.com](mailto:marcus.baker@apricus.com)

FB Hall & Co Ltd – Mike Wilson - 07 847 4780  
[mike@fbhall.co.nz](mailto:mike@fbhall.co.nz)

**Savings**

**Sustainability**

**Independence**