

# 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:

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