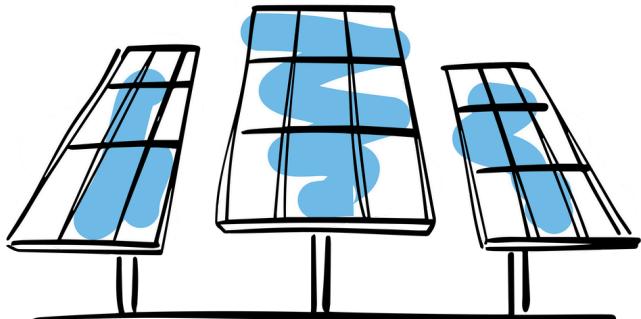


Hotel Solar: Powering Hospitality with the Sun

The Queenstown Electrification Accelerator assisted a hotel to understand how they could reduce cost and carbon emissions by installing solar.

We found that the north-facing roof space on the hotel could accommodate a **225kW array** of panels. We then reviewed the hotel's annual electricity consumption profile against the potential solar electricity that could be produced.



The result?

\$42,400

saved each year in electricity costs

32 tonnes

of annual reductions in CO₂e from generation emissions

26%

reduction in electricity costs & electricity related emissions

The performance of the panels varies over the course of the year due to seasonal variations, however the savings on monthly electricity bill savings are **\$3,533** on average.

Spring

Average consumption: 97%
Average month cost savings: \$1,539
Average month export earnings: \$149

Summer

Average consumption: 82%
Average month cost savings: \$3,768
Average month export earnings: \$1,082

Autumn

Average consumption: 92%
Average month cost savings: \$3,594
Average month export earnings: \$260

Winter

Average consumption: 100%
Average month cost savings: \$2,576
Average month export earnings: \$0

This assessment showcased the significant benefits hotels can achieve all year round through the installation of solar, enabling them to reduce electricity bills and operational emissions. Solar installation also helps protect the hotel from increasing grid-electricity costs, hence, the savings from utilising solar electricity will increase over time as grid costs increase.

Ready to explore solar for your hotel?

Whether you're just starting to explore options or ready to take the next steps, the Queenstown Electrification Accelerator is here to help.

Get in touch at qea.nz/contact