Energy Makeovers solutions

Case Study

St Joseph's Primary School Hawthorn, Victoria

SOLAR

SUMMARY

GRID-CONNECTED SYSTEM
35.2 kW

ENERGY SUPPLIED
33%

PAYBACK PERIOD
2.9 Years

GRID ENERGY USE
28% Reduction

PREDICTED COST SAVINGS
$12,396 p/a

St Joseph's Primary School in Hawthorn prides itself on "a strong sense of community and commits to a personalised approach to learning and teaching, aimed at students reaching their full potential." They're committed to reducing their grid-sourced energy consumption and they've embarked on a number of energy efficiency upgrades throughout the school. They selected Energy Makeovers to install a **35kW solar energy system comprised of 128 Trina panels, spread across two buildings, and 2 x 15kW Austrian-made Fronius inverters.**

The system is fully monitored, and the school is able to track and respond to system faults thanks to the real-time monitoring features of the Fronius inverters.

CHALLENGE & SOLUTION

To utilise the existing roof space, we designed a system that would operate across two buildings with two sets of panels and two inverters. We also recommended installing LED lighting first to minimize the size of the solar energy system the school would need. As you'd expect with a school, peak energy consumption occurs during the middle of the day when the sun is at its strongest and the system is operating at maximum efficiency. The school also has low energy demands during holiday periods, so we considered these needs when sizing the solar system to ensure it wasn't larger than necessary. This careful approach to design ensured that St Joseph's achieved the highest possible returns on their investment with the shortest possible payback period.

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