

# Case Study - Gippsland Grammar School

## PROJECT DETAILS

- System summary - 200kW solar array, and 2,500 LED lights
- Solar panels – 800 x JA Solar 260W premium panels
- Inverters- 8 x Fronius Eco 27.6kW inverters
- Production / consumption monitoring with Fronius Smart Meter
- Consolidated into 7 year cashflow-neutral finance package

Total energy saving - approx \$59,200 per year



### THE STORY

In 2016, Gippsland Grammar decided to embark on one of the largest solar and energy efficiency projects in Eastern Victoria.

The in-house team at Gippsland Solar were engaged to analyze the usage data for the school campuses, design the most efficient solution, and preparing a financed package of energy efficiency and solar power systems across the campuses. Gippsland Grammar issued the contract to Gippsland Solar 3 weeks before the September school holidays.

The only catch was that the entire project had to be implemented during the 2 week school holidays! With only a few weeks to plan and prepare the project, our team of engineers and project managers devised a detailed plan and scope of works, ensuring that everything was ready to go from the first morning onsite. Then we mobilised our in-house team of 13 installers to come in on the first day of the holidays, and work weekends, long days and evenings for the two week period, to deliver this project on time.

Not only were our team able to deliver a month's worth of project in only two weeks, but Gippsland Grammar commented that the entire project ran incredibly smoothly, with no impact on the operation of the school. Our team overcame challenges, cleaned up the site, and adhered to the strict safety standard that Gippsland Grammar require.



This project included a 200kW Solar Power system (100kW at the senior campus, 70kW at the junior campus, and 30kW at the boarding house). We also replaced 2,500 fluoro tubes with LED, improving their light quality while using 70% less energy!

This entire package was bundled into a 7 year finance deal, with no deposit required. Gippsland Grammar will now use the savings from this system to pay off the finance for the next 7 years (cashflow neutral or slightly positive), and after that, the benefits are all theirs, for 10-15 years into the future! Gippsland Grammar will be hundreds of thousands of dollars ahead over the 20+ year life expectancy of the system, even after taking out the repayments!

The system is also remotely monitored, with the Fronius inverters sending power usage and solar generation data to the web portal. Our team can monitor the system performance, and we will also receive an automatic email if the system develops an issue.