



# Australian club to save \$100,000 over 5 years

CASE STUDY > Australia, NSW, Leagues Club

Chris Wright of Energy Partners Australia (EPA) has been using BEST energy efficiency technology within a local leagues club near Sydney since 2009. In that time EPA has tracked and monitored energy consumption across the site identifying saving opportunities for the client exceeding \$100,000 over the first five years.

### Go West

West's Tennis Club is part of a sports and entertainment venue located in Campbelltown, a south-western suburb of Sydney. The club currently attracts around 40,000 club-going members per annum, offering a range of sporting, dining and entertainment facilities.

By monitoring the on-going energy consumption within the main 2,000sq/m club they had hoped to better understand their usage profile, and reveal any potential savings to be had.

### Understanding the need

EPA, working in partnership with a local provider of Power Factor correction technology, explained the need for transparency in the energy saving process. It is only through the accurate measurement of current consumption patterns that savings can be identified and later proved.

**The client was introduced to the BEST EnergyMaps process and six Eniscope meters were installed across two sites, including the Tennis Club, to initiate the 'Control' stage of the process.**

During the initial assessment period, the BEST Eniscope revealed daily trends at the Tennis Club in line with expectations for a typical club of its size, with the normal fit out of appliances; lighting, refrigeration, air conditioning and cooking equipment.

The sites main operating hours were shown to be 12 hours per day, across seven days a week, totalling around 84 operational hours each week.

### Products



### Key Benefits

- Reduces Wear
- Energy Saving
- Reduced Maintenance
- Consumption Monitoring

### Statistics

Analysis showed a saving of 293 kWh per day, resulting in a reduction of electrical load on the circuit of 20%+ . This added up to an annual cost saving of \$18,000

The BEST Enscope provided detailed and accurate information on the electricity supply and power quality across all three phases of power supply, enabling EPA's strategic partner in Power Factor to assess the benefit of installing Power Factor correction technology at the site.

The data collated showed a poor power quality, averaging 0.87. Power Factor is a measure of how effectively power is being utilized and is measured between one and zero - with one being the perfect score.

Power factor dictates how much electricity a retail energy provider supplies to a site. A poor power factor results in a need for more electricity to be delivered to a site. A good power factor requires less electricity to be delivered which directly results in cost savings for clients of this size.

### They've got the power...

The poor power quality at the tennis club, revealed by the BEST Enscope, was directly targeted by Power Factor correction technology. The result was a new average of 0.967 resulting in immediate savings for the client.

By measuring the power quality over the month following installation, and comparing it to the assessment period, it was possible to demonstrate the efficacy of the solution and the return on investment (ROI) of the technology.

**Making use of BEST Enscope Analytics, and the historical data recorded, Chris and his team were able to provide detailed comparisons and analysis. The analysis showed a saving of 293 kWh per day, resulting in a reduction of electrical load on the circuit of 20%+ . This added up to an annual cost saving of \$18,000, providing a payback period of less than 2 years.**

Factoring in conservative electricity price rises over the period, the forecasted accumulated savings over the first five years have been identified to be in excess of \$100,000.

EPA is now actively monitoring data from nine BEST Enscopes installed across four separate sites at the club. The client continues to work with Chris and the EPA team to identify further cost saving initiatives.

## The Strategy

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