

CASE STUDY



Cornwall Council Leisure Centres

THE CLIENT

Cornwall Council identified three leisure centres under its management as significant users of energy:

Waterworld: A swimming and leisure complex which includes a 25m swimming pool and a tropical fun pool with flumes, wave machines and fountains.

Polkyth Leisure Centre: A multi-purpose community centre with a lane swimming pool, fitness suite and sports hall.

Newquay Sports Centre: An indoor and outdoor sport complex with fitness suite, squash court floodlit multi-sport pitches and climbing walls.

THE CHALLENGE

The council sought a way to reduce both the cost of electricity and carbon emissions at all three leisure centres as part of an initiative to achieve the highest energy efficiency rating possible for each building in its portfolio.

After an extensive search into available solutions the council became aware of Powerstar due to the 100% guaranteed savings offered with all systems, and asked the Powerstar team to conduct a free of charge audit to determine guaranteed energy savings for the three sites.

THE SOLUTION

A Powerstar voltage optimisation system was installed into each of the centres, delivering **combined average savings of 12%.**

Due to its unique design Powerstar also provides total phase balancing and filters harmonics from the supply

Along with the energy reduction and financial savings, the centres are benefiting from increased lifespan of electrical equipment due to reducing the over voltage supplied to appliances.

KEY FIGURES

- **Waterworld annual savings: 13%**
- **Polkyth Leisure annual savings: 11.5%**
- **Newquay sport centre annual savings: 13%**

CUSTOMER QUOTATION

“As part of our efforts to achieve the highest efficiency rating for our buildings, Powerstar has been installed into three leisure centres within the council. The results have been exciting with an average of 12.5% reduction in the three leisure centres. As a direct result of the Powerstar installation, along with other measures taken, our efficiency rating were excellent”

Martin Perrow
Energy Manager, Cornwall Council

