



OVERVIEW

Saving energy, reducing maintenance and improving water quality

Global Solutions...

wireless control for hundreds of applications

with Invertek Drives the solutions start here!

- easy to use and incredible performance
- leading edge design and technology
- highly committed to innovation
- products you can rely on
- global support and suppliers

For more information, visit www.invertek.co.uk



COMPANY

CITY OF GOSNELLS LEISURE AQUATIC CENTRE

Optidrive proves its worth in pump control

Western Australia



Maintaining huge quantities of water in optimum condition in a leisure centre can be a very challenging and expensive task.

At the **City of Gosnells Leisure Aquatic Centre** in Western Australia a mixture of single and 3 phase pumps are used to circulate approximately 1.5 million litres of water. The complexity of the application is increased by facilities that include a 25 metre swimming pool, spa, sauna, steam room, fully equipped fitness centre, aerobic facilities, swimming school, crèche and café.

The City Of Gosnells (www.gosnells.wa.gov.au) undertook to reduce their power consumption and emission output whilst increasing their water quality by using variable speed drives to control the pumps.

After extensive competitor comparison and test Invertek Drives were selected as the preferred solution. Working in conjunction with GreenHOUS of Western Australia, eight Optidrives were installed, immediately allowing pump duty to be more closely matched to the water supply demand. Water circulation is now continuously adjusted based on the Leisure Centre operating requirements, in some cases reducing the speed of the pumps by up to 60%. This speed reduction also allowed the water to pass through the filtration system at a more preferable rate, increasing water quality whilst maintaining the legal requirements for minimum water turn over within specified times.

The City of Gosnells then monitored the new drives via an energy flow meter. Based on those results they were able to accurately assess the improvements and calculate energy savings of nearly 60% per annum totalling \$43,000 every year

The results have been outstanding in terms of huge energy savings, lower maintenance, less wear on pumps and improved water quality. The most telling quote from the customer was "Why didn't we do this earlier?"

Looking to the future, incorporation of a MODBUS system and a business management system into their IT network will deliver further savings through reduced time required for effective management of pump control.

Optidrive products used in this application:

3 x 11kw 3 phase ODV-2-44110-3KF4N
 2 x 4kw 3 phase ODE-2-24400-3KA4X
 3 x single phase ODE-2-22110-1KBIX

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