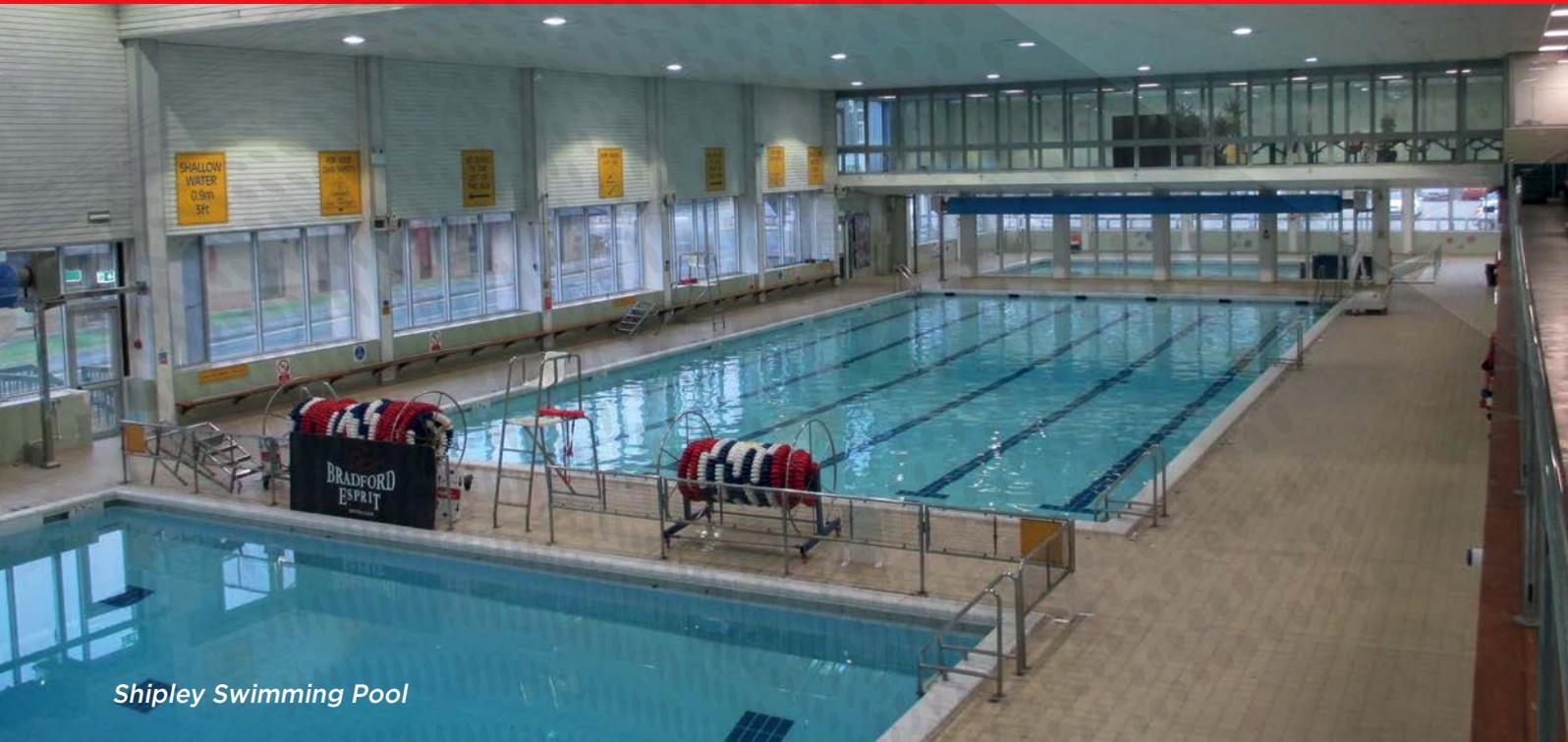


CASE STUDY

ShIPLEY Swimming Pool Bradford



Shipley Swimming Pool

Shipley Pool is owned by The City of Bradford Metropolitan District Council and is the district's flagship pool.

The council closed the pool in September 2013 to undertake major renovation works to make it a flagship example of energy efficiency in the district re-opening the pool in January 2014. The energy-efficiency measures are being made as part of the council's ongoing 'spend to save' programme of investment in leisure and sporting facilities. The comprehensive refit of mechanical systems includes installation of solar PV panels, insulation, double glazing, energy efficient LED lighting and new heating and ventilation systems.



ESG Pool Ventilation was commissioned to design and install two ventilation units, one to serve the pool hall and a second to serve the changing rooms. The new pool hall unit utilized the existing supply duct system with a new low level extract being installed. The new changing room unit was connected to the existing supply and extract system. The existing systems contained no form of energy conservation.

The ESG pool unit incorporates three energy conservation methods.

1. Variable fresh air ventilation.
2. The ESG heat recovery system with plate heat exchanger (patent applied for).
3. Variable rate ventilation control.

The ESG changing room unit incorporates two energy conservation methods.

1. Variable fresh air ventilation.
2. Variable rate ventilation control.



As part of a major refurbishment programme we commissioned ESG to complete a turn key install of the ventilation in the main pool area and changing village. The project had very tight and short time scales which ESG adhered to and completed the works within them.

We are delighted with the install, which has made a vast difference in energy consumption across both ventilation systems.

The projected payback should be within 3 to 4 years, which will save the Council a vast amount on their utility bills moving forward.



Chris Mudd
Senior Electrical & Mechanical Surveyor
City of Bradford Metropolitan District Council



Within the pool hall there is a 25m x 13 m pool, a 15m x 13m diving pool and a 8m x 15m teaching pool all with spectator viewing. The large changing village serving the pools is situated beneath the viewing gallery.

The large pool hall ventilation unit was built on site to enable it to be installed in the existing plant space and therefore not changing the appearance of the building on the inside or from the outside. The changing room unit was installed as a direct replacement for the existing plant but with increased energy conservation.

ESG Pool Ventilation was employed on a direct contract by The City of Bradford Metropolitan District Council to design, install and commission both the pool hall and changing room ventilation systems and provided all the supporting works themselves as they acted as main contractor for all the other works.

System Specification

Pool - 25m x 12.5m

Diving Pool - 15m x 13m

Teaching Pool - 8m x 15m

Water Temperature - 29°C

Air Temperature - 30°C

Pool Ventilation Rate - 11.5m³/s



ESG - The Leading Pool Ventilation Specialist

ESG designs and builds pool ventilation systems, completing over 100 in the last 5 years.

An independent specialist since 1979, ESG aims to provide all its customers throughout the UK with best conditions, quality products and a complete system.



- Design to meet individual customers requirements
- Provide systems for all types and sizes of pool
- Deliver lowest running cost and long life
- Embrace new technologies, to improve products

Contact us for a free appraisal of your requirements.