

ARMSTRONG 



standard
SMARTartered
PUMPING
SYSTEM
UPGRADE

A COMMERCIAL
FACILITY INSTALLATION

Standard Chartered Bank, London Headquarters

Expected reduction in energy consumption is more than 405,000 kWh per annum, cutting energy bills by more than £45,000 per year.

“Providing those managing the building on a day-to-day basis with important performance data adds even more long-term value.”

Daniel Simpson

Project Manager -
Energy Upgrades

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Armstrong’s Design Envelope 4200 pumps use integrated intelligent controls for easy installation and commissioning. Compared to traditional pump designs, they reduce pump energy use by up to 75%. Active Performance Management using the Pump Manager app ensures the lowest lifecycle operating cost.

Background

Standard Chartered is a British multinational banking and financial services company operating in more than 70 countries. For a recent project, the bank’s estates team decided to enhance HVAC performance and reduce energy costs by upgrading the existing pumps. Reliability is a key issue as the cooling system at the site provide critical support for the bank’s global trading activities.

A total of 23 pumps were upgraded, including the replacement of ten legacy pumps with the latest Armstrong 4200 Design Envelope pumps. The pump upgrade is expected to yield reductions in energy consumption, utility expenses, and carbon footprint. Energy savings for the project are estimated at 405,000 kWh per year, which equates to an annual cost saving of £45,380 and a ‘simple payback’ period of just three years. The energy savings will also improve environmental performance, with a reduction in annual (B1) carbon footprint of 124,500 kg.

Design Envelope pumps are engineered for use with Pump Manager, a part of the Armstrong Active Performance Management Suite, which enables pumps to operate efficiently throughout their lifespan. The Standard Chartered team are able to track the energy and carbon savings resulting from their pump upgrade. The increased level of pump energy efficiency combined with performance tracking supports better uptime and early detection of potential problems.

Daniel Simpson, Project Manager – Energy Upgrades commented, “Design Envelope pumps made it possible to work around our space limitations. However, providing those managing the building on a day-to-day basis with important performance data adds even more long-term value.”

Tech-info

- Armstrong Design Envelope 4200 Pumps