

CASE STUDY

Ringsend MLPS



EPS were engaged by Irish Water to design, supply and install new pumps and associated pipework as well as new electrical equipment, switchgear and control panels including associated works.

The Ringsend Main Lift Pumping station delivers the majority of the existing 1.64m PE incoming flows to the main wastewater treatment plant for Dublin city. The pumping station must remain fully operational throughout the project. With all duty & assist pumps operating together, the station will be ultimately capable of pumping 18 m³/s forward to Ringsend WwTW.



COST
€6.8 Million



CONTRACT SIGNING
Mar 18



CAPACITY
Up to 18m³/s



VSD DRIVEN PUMPS
6 No. 630kW

Rethinking Water



Project Specifics

The scope of this project is to replace the 6 existing pumps with 6 No. 630kW variable speed pumps, capable of up to 3.6 m³/s each, which are selected to achieve optimum energy efficiency and maximise unit life and provide optimum long-term operations and maintenance efficiency.

These works include the installation of 4 discharge DN1200 siphons, replacement of 2 10/20KV - 3.3kV transformers and 2 3.3kV-400V transformers, installation of MV switchgear and the upgrade of instrumentation, including all associated LV works.

A new ICA system is also being installed on site in order to control the system in full auto. Auxiliary equipment, including ventilation and odour units, will also be upgraded in order to comply with current specifications.

- Critical part of Dublin Drainage Network
- Pumps unscreened, unfiltered wastewater to Ringsend WwTW
- Significantly reduces impact of flooding to Dublin city centre
- Average pumped flow 263,196 m³/day
- Must remain fully operational during programme duration