CSIC’s futureproofing tool has been applied to Liverpool Wastewater Treatment Works (LWW TW) to assess the organisation’s assets against defined futureproofing criteria. The new plant at Wellington Dock will serve around 600,000 residents and be able to cope with 11,000 litres of waste per second, equivalent to filling an average family car 200 times every second.

The benefits
Application of the futureproofing tool has provided direct benefits to LWW TW infrastructure providing information to support:
- assessment of the suitability of pump, building, piping and screen assets when considering the design of upgrades and new facilities for long-term use and maintenance
- selection of a variety of water and wastewater process asset upgrades
- embedding the infrastructure futureproofing tool/criteria in ‘risk management process’/‘risk register’ and ‘stakeholder management process’/‘stakeholder map’
- helping drive innovation and improvement in the industry for future projects
- informed decision making
- delivery of through-life value benefits
- improved infrastructure futureproofing strategies to enhance:
  - resilience of infrastructure to climate change impacts
- change management capability of the infrastructure in terms of adaptability, replaceability, reusability, system stability, operability and information futureproofing.

CSIC’s futureproofing tool has also been applied at London Underground’s Camden Town Station upgrade project and can be applied more widely by asset owners.

Impact
“The use of CSIC’s infrastructure futureproofing tool provides real value in the assessment of the suitability of assets when considering the design of upgrades and new facilities for long-term use and maintenance. The use of the tool should help with the selection of a variety of water and wastewater process asset upgrades thus helping drive innovation and improvement in the industry for future projects.”

Andy Fielding, Performance Manager for Costain Water Sector

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