

# WSD projects recognised at Autodesk HK BIM Awards 2024 (with photos)

The Water Supplies Department (WSD) received the Winner Award and two Honorable Mentions at the Autodesk Hong Kong BIM Awards 2024. The awards presentation ceremony was held on November 20 in Hong Kong.

The WSD's Siu Ho Wan Water Treatment Works Extension Project won the Winner Award. The project team utilised building information modelling (BIM) to simulate the complex features of water treatment works, including structure, mechanical and electrical equipment, and routing of pipelines in a 3D manner, to enhance design accuracy. In addition, the project team incorporated the construction workflow and duration of various work activities into the model to dynamically display the situation of work sites in a 4D manner, promoting better co-ordination among stakeholders and greatly enhancing the effectiveness of construction management. The award showcases the department's dedication to integrating cutting-edge BIM technology during the design and construction stages.

Additionally, the adoption of digital tools such as BIM in asset management can enhance the operation and maintenance efficiency of the water supply system. Two WSD projects – (i) the First Stage of the Tseung Kwan O Desalination Plant and (ii) Digitalising Smart Water System for Smart Trunk Transfer Support System with Pump Optimisation in conjunction with artificial intelligence-Driven BIM and Geographic Information System Integration – received Honorable Mentions. These two projects highlight the significance and impact of the application of BIM technology to enhance the efficiency and reliability of water supply systems.

The WSD team remains committed to leveraging innovative technologies and methodologies to ensure a reliable and efficient water supply for Hong Kong.





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Digitalising Smart Water System: STWIS for Pump Optimization  
with AI-Driven Machine Learning

