

Leveraging Real-time Data for Intelligent, Utility Management

Gary L.S. Wong^{1*}

¹OSIsoft, LLC., 777 Davis Street, San Leandro, California, USA 94577

(*Email: gwong@osisoft.com and Phone: 604-760-8487)

FORMAT

30 minute presentation

KEYWORDS

Decision Support, Real-time Data Management, Operations Data Management System, ODMS, Big Data

ABSTRACT

Instrumentation and automation play a vital role to managing the water industry. These systems generate vast amounts of data that must be effectively managed in order to enable intelligent decision making. Time series data management software, commonly known as data historians are used for collecting and managing real-time information. More advanced software solutions provide a data infrastructure or utility wide Operations Data Management System (ODMS) that stores, manages, calculates, displays, shares, and integrates data from multiple disparate automation and business systems that are used daily in water utilities. These ODMS solutions are proven and have the ability to manage data from smart water meters to the collaboration of data across third party corporations. This presentation focuses on practical, utility successes in the water industry where utility managers are leveraging instantaneous access to data from proven, commercial off-the-shelf ODMS solutions to enable better real-time decision making. Successes include saving \$600,000 / year in water loss control, safeguarding water quality, saving millions of dollars in energy management and asset management. Immediate opportunities exist to collaborate and leverage these successful case studies to any water or wastewater utility in the world.

ABOUT THE AUTHOR

Gary L.S. Wong, P.Eng., MBA, CPA is OSIsoft's Principal, Global Water Industry and has 18 years of international experience providing sustainable, strategic and cost-effective business solutions, particularly in the water industry. Prior to joining OSIsoft, he was the Manager, Corporate Applications at Metro Vancouver and has also held previous positions in senior management and consulting. Additionally, Gary has worked with major international organizations in both the public and private sector on Operations, IT strategy, planning, sustainability, and engineering. Mr. Wong holds a Bachelor's Degree in Chemical Engineering, is registered as a Professional Engineer in Computer Engineering, holds an M.B.A. from the Queen's School of Business and is also a Chartered Professional Accountant.