

Day Two - Track One

Thursday, March 22nd, 2018

9:00 a.m. – 9:30 a.m.

ISO 14034 Environmental Technology Verification

Presenters: John Neate, VerifiGlobal and Vicky Ying Shi, City of Toronto

Biography



John Neate is a founder and managing director of VerifiGlobal, an international platform for performance testing and verification servicing multiple sectors and technology areas. John is an accredited member of the International Organization for Standardization (ISO) committee responsible for environmental performance evaluation, and a key contributor to international efforts aimed at encouraging mutual recognition and acceptance of performance testing and verification information. John is an entrepreneurial senior executive who helps organizations navigate the complex challenges of technology innovation, leading to business growth and stakeholder buy-in. He has advised numerous businesses and organizations, including the United Nations International Environmental Technology Centre, Canada's Nuclear Waste Management Organization, and the Ontario Centre for Environmental Technology Advancement. He is the former President and Chief Operating Officer of Water Technology International Corporation.



Vicky Ying Shi, PHD, P. Eng. is an engineer with Toronto Water, the City of Toronto. She has over 15 years of experience in the Environmental Assessment studies, design and construction, policy and program development of linear infrastructure and storm water management. She is working on developing a directive to size the manufactured treatment devices to address specific site design. She is also developing criteria for City of Toronto Wet Weather Flow Management Guideline Updating.

Abstract

The ISO 14034 Environmental Technology Verification (ETV) standard, published in November 2016, provides a specified framework for the evaluation of environmental technologies. The process outlined in the standard, provides legitimacy to third-party verification of environmental technology performance claims. Use of the standard offers the following benefits: Robust verification - a functional quality-assured process for technology performance verification, supported by effective testing and verification protocols; Reciprocity and acceptance - effective engagement of stakeholders and other interested parties when identifying relevant performance parameters, with greater potential for reciprocity and acceptance of test methods, performance data and verification results across multiple jurisdictions; and Market adoption - accelerated market adoption of verified technologies by a broader range of users across different sectors, particularly when considering proposed solutions and potential outcomes that involve trade-offs and risks. For governments, agencies industries and that require technologies to prevent, control and remediate pollution, and/or improve environmental performance, independent verification based on the ISO 14034 ETV standard, provides credible performance information, which informs choices and helps justify decisions. For environmental and 'clean-tech' technology companies, independent verification based on the ISO 14034 ETV standard, provides credible evidence that technologies perform as claimed, which helps convince potential clients and regulators of the legitimacy and value of these verified technologies.

Learning Objectives

1. What are the storm design parameters to be used and why;
2. How the city's ETV Assessment Selection Tool was developed; and
3. The application of the ETV Assessment Selection Tool to select the appropriate manufactured device for specific site requirements.