

Taking a Holistic Approach to Infrastructure Planning



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Trust. It flows from experience & commitment.

OCWA Footprint



- Largest water and wastewater operator in Canada with more than 800 water and wastewater treatment facilities
- 500 provincially certified Operators
- Hub and spoke structure with one of Cisco's largest IT Wide Area Networks in Canada
- Manage more than \$20 Billion in municipal infrastructure assets
- Province of Ontario Emergency Response Team for Water/WW

Ensuring Resiliency Through Information

- OCWANet
 - Managing Assets in a changing environment through real time data
 - Currently collecting 4 Terabytes of data per day
 - Cloud based solution using advanced toolkit
 - Working with IBM through development phase
 - Municipal Facility Action Plans and measuring effectiveness
 - Trending followed by Analytics is key to the shifting paradigm
- Future Enhancements
 - Optimization
 - Predictive modeling

Ensuring Resiliency Through Capital Planning and Asset Management

- Asset Management Remains Foundational
 - Comprehensive Asset Plans
 - Condition assessment of all process and balance of plant assets
 - Process Optimization Opportunities including Correction Composite Program (CCP)
 - Flexibility in PMP, Major Maintenance and Capital Plans -
 - Process Data Management (PDM) Application
 - Living/Learning Maintenance Management System - Maximo
 - Predictive maintenance tools
- Moving Towards “Net Zero” Philosophy
 - Resource recovery philosophy for WW
 - GHG reductions and Carbon Footprint – Energy Savings & Carbon offset credits for Municipalities

Ensuring Resiliency Through Financial Planning and Capital Delivery

- Financial Sustainability
 - Long term rate structure modelling considering 10/20 year asset plan
 - Triple bottom line
 - New approaches – Ontario Municipal Service Corporations
- Adaptive Capital Delivery
 - Shortening delivery time through different capital delivery models
 - USA Program Management model
 - Design Build Operate and EPC capital delivery models
 - Emergency Response and Remediation Programs