Canadian Innovation in Water & Energy
Southern California Roadshow
March 19-23, 2018
Los Angeles County ✦ Riverside County ✦ Orange County ✦ Inland Empire ✦ San Diego

Water

CT Zoom Technologies - CTZoom Technologies is a zoom camera system manufacturing company and distributor, specializing in the sewer and utility asset assessment field. The camera system is readily adapted to most CCTV camera inspection vehicles and provides video and condition assessment data on wastewater collection system, including structural and operational defects. www.ctzoom.com

Echologics – Echologics is a developer of water infrastructure diagnostic technologies for water loss management, leak detection and pipe condition assessment. Echologics is dedicated to helping water utilities reduce water loss and improve customer service with subsequent benefits in monetary, environmental and health costs to their communities. www.echologics.com

EMAGIN – EMAGIN provides water and wastewater utilities with an operational intelligence platform to enable smarter management of their critical processes in real-time. The platform leverages artificial intelligence to create real-time actionable insights and recommendations with the objective of reducing energy costs and resource wastages, as well as enhancing public safety and emergency preparedness. www.emagin.ca

FREDsense Technologies – FREDsense Technologies was incorporated in 2014 to change the way we think about water chemistry. Instead of waiting 3-5 days for expensive labs to perform analysis, FREDsense is using the power of biology to create new devices capable of measuring chemicals on-site without any complex steps that limit analysis. FREDsense has already demonstrated the technology with several utilities and has multiple clients performing custom sensor development with the company. www.fredsense.com

H2O Innovation - H_2O Innovation is synonymous with membrane filtration technology in the water and wastewater industry. We design, build and provide state-of-the-art, custom-built and integrated water treatment solutions for municipal, industrial, energy and natural resource end-users of all sizes. As the unparalleled experts in our field, we pride ourselves on the ability to tackle any project, no matter the size or scope of service. We are also known for our great customer service, which allows us to aid clients throughout the lifetime of the plant when it comes to both service and operation contracts.   www.h2oinnovation.com

Heron Instruments - Heron provides a multitude of water monitoring equipment, but specific to this roadshow we are presenting our data logger unit along with our real time data technology partner, Smartrek, to provide the end user with the ability to access real time data from their installment. This is also includes the ability to have alarm settings during the monitoring process. www.heroninstruments.com

RainGrid - Builds smart city drought and flood resilience with *Stormwater Smartgrids.* This WEF/WRF-LIFT Intelligent Water technology fuses rain harvesting with AI/IoT networks to create climate resilient residential and commercial property rain harvesting as an asset-managed infrastructure. Stormwater Smartgrids are a reliable, measurable and effective integration of One Water principles eliminating stormwater runoff, balancing potable water demand, and lightening your carbon footprint. RainGrid's intelligent water technology and social marketing guide your city's path to One Water climate resilience with modules for planning, implementation, operations and maintenance, and big data analytics. Join us at www.raingrid.com

TECTA-PDS – TECTA-PDS provides the world's first, fully automated, rapid, easy-to-use, EPA approved, microbiological water quality monitoring system for operational and regulatory compliance testing of municipal drinking water systems required under the Total Coliform Rule, which lowers overall monitoring costs, improves water quality and improves human health. www.tecta-pds.com

Fibracast – Fibracast is a manufacturer of hybrid immersed membranes trademarked at FibrePlate used in membrane bioreactors for advanced wastewater treatment and reuse for municipal and industrial applications. www.fibracast.com

Eramosa – Eramosa has been providing technology solutions to water and wastewater clients throughout North America for twenty years. This includes e.RIS, Eramosa's enterprise data management solution that enables our clients to manage, analyze and visualize information from SCADA, laboratory, billing, and maintenance systems with easy to use tools collaboratively developed with our water and wastewater partners. http://yourinformationsmarter.com/

Water & Energy Nexus

Clevest - Clevest is focused on providing software for the utility mobile workforce. Clevest provides mobile workforce management, location tracking, mobile GIS, and meter reading software within a single enterprise mobility platform. The company has experience in implementing over 200 different utility-specific business processes, and over 250 distinct integration points to various software systems. www.clevest.com

Deep Trekker - Deep Trekker's remotely operated vehicles (ROV's) have been utilized to inspect dams, intakes, potable tanks, and the list continues to grow. Created to work in tandem with engineers and contractors, Deep Trekker developed a Pipe Crawler. Deep Trekker's team of remotely operated vehicles offer a safe, easily deployable and cost effective solution to support water and energy sectors. www.deeptrekker.com

FuseForward – FuseForward delivers everything a utility needs to harness the power of real-time data and advanced analytics. We can integrate, process and analyze any type of data set, including streaming data from SCADA systems, within our secure cloud environment. Unlike analytics tools that provide only a siloed view of performance, our system enables us to deliver a complete, real-time picture of your utility's performance inside a single interface. Our system has been successfully implemented in utilities, with proven ability providing insight to reduce energy consumption and water waste. www.FuseForward.com

SmartCone Technologies - We manufacturer intelligent portable systems that enable large public and private companies to respond to a wide range of safety & security situations by maximizing operational efficiencies. www.thesmartcone.com

Power

Hatch - Hatch is a multidisciplinary professional services firm that delivers a comprehensive array of technical and strategic services with corporate roots extending over 100 years and project experience in more than 150 countries around the world. With over 9,000 people in over 65 offices, the firm has more than $50 billion in projects currently under management. Hatch actively works in the following energy sub-sectors: water power and water resources; Wind and solar power; geothermal, ocean, and other alternative energies; thermal power; nuclear power; hybrid power; energy storage; power delivery and integration, including microgrids and Smart Grid; Power business management consulting. www.hatch.com

Hydrostor Inc. – Hydrostor is a global leader in Advanced Compressed Air Energy Storage (A-CAES). Hydrostor's Terra A-CAES technology involves a purpose-built subsurface air storage cavern that allows for flexible siting and a fuel-free process that enhances efficiency, eliminating the need for natural gas. The Company has a suite of intellectual property relating to its technology. Hydrostor has successfully delivered two grid-connected projects in Ontario, a demonstration project in Toronto and a commercial project in Goderich, Ontario. The Company has partnered with AECOM to deliver its A-CAES technology globally. The Company is working with utilities in California to develop large-scale Terra A-CAES systems that provide capacity where the grid requires it. https://hydrostor.ca/

Opus One Solutions is a software engineering and solutions company with the vision of a distributed energy network. Opus One's intelligent energy networking platform, GridOS®, optimizes complex power flows so that it can deliver real-time energy management and integrated planning to distribution utilities and other managers of distributed energy assets. GridOS is modular, scalable, and integrates seamlessly with existing data systems to unlock greater potential for distributed energy resources, including renewable generation, energy storage, and responsive demand. GridOS also facilitates the management of microgrids — from homes to businesses to communities — for unparalleled grid resiliency and value to the electricity customer. www.opusonesolutions.com

Storage Power Solutions – Storage Power Solutions provides the primary functions of either shifting energy by storing when energy is cheap and discharging when energy is expensive or provides regulation services when the grid is unstable due to the increased penetration of intermittent sources such as wind & solar. The speed of the SPS system to charge and discharge fills the gap that cannot be performed by conventional sources such as gas-fired generators. www.energysps.com

Virelec LTD. - Virelec is a Power system equipment company providing P&C systems, battery energy storage systems and various other niche products for the electric utility and C&I power sectors. Virelec's product is a powerline communication based permissive generation system that only needs a signal generator installed at the substation and a signal detector at any DER site. This represents a significantly lower overall cost solution particularly if there are in-line reclosers on the feeder. www.virelec.com

Hyperion Sensors Inc - Hyperion's ruggedized IOT based tFITs™ fiber optic solution introduces a

revolutionary new approach, and will provide the first real time, distributed/continuous information from inside the core of an energized device, like a power transformer in a utility substation. This is a complete disruptive technology in the industrial high voltage arena and will allow operators to gain insight into operations, allowing for proactive maintenance and potential revenue maximization. www.hyperionsensors.com

Intellimeter – Intellimeter engineers innovative meters and continues to introduce technological advancements in its i-meter® line of products to provide customized solutions to its clients. Our meters deliver real-time, revenue class energy information so customers can measure their energy costs to manage their energy resources. Our primary business is to develop, manufacture and distribute energy metering monitoring systems that delivery energy cost information manually or through remote data acquisition. www.intellimeter.ca

Powertech Labs - Powertech Labs Inc. is a multidisciplinary testing, research and development facility (11 acre site, 200,000 sq.ft, 15 primary labs). We offer a one-stop-shop approach for businesses that require technical engineering expertise, studies, standards and code testing, as well as quality testing and failure analysis services. We provide specialized testing and investigation services to support capital assets for generation, transmission and distribution, OEMs, automotive manufacturers, government and research organizations. www.powertechlabs.com