

# WISE

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FOR SUSTAINABLE ENERGY



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PRESENTED BY THE WATERLOO INSTITUTE  
FOR SUSTAINABLE ENERGY

**Tuesday May 3, 2016**  
**10:30 – 11:30 am**  
**CPH 4333**

## FORENSIC ENERGY MANAGEMENT

**B. Paul Mertes, MBA, P.Eng.,** President & CEO  
CircuitMeter Inc.

Advanced submeter technology is poised to play a major role in analyzing energy usage and helping management of industrial and commercial facilities use energy more efficiently. This will ultimately lead to a substantial reduction in energy costs and a lower carbon footprint.

Submeter use has grown over the past ten years as its functionality expanded beyond industrial applications into the entire green building envelope. Now a completely new generation of submeter technology is coming onto the market that is dramatically lower in cost, so much so that it can be economically deployed at the circuit level. Combining “real time” communication with cloud-based, big data energy analytics, this new technology has the ability to break down energy usage data and identify where and when it is wasted. The status quo in terms of energy management practices and technology cannot economically identify this energy waste, whether it is the result of equipment operating inefficiently or unnecessarily.

CircuitMeter technology has broken through the barriers of cost, with metering technology at a fraction of current market leaders, and is intended for installation at the circuit level. It features real time communication of all electrical data (3,000 Hz sampling, 2 second communication), and Enterprise level Big Data software designed to scale and address the needs of entire portfolios. With the ability to identify and break down electrical use into granular data, for any specific time, circuit by circuit, CircuitMeter is introducing the concept of Forensic Energy Management™.

### Biography



Paul Mertes has over twenty years of experience as an executive directing the growth or turnaround of engineering, technology, and infrastructure companies. He has led company and divisional operations in Canada, the United States, Europe, the Middle East and Asia, specializing in strategy development and execution. For the past 10 years Paul has focused on the Cleantech Sector, with clients involved in the provision and control of clean energy into buildings and facilities.

Paul has a B.A.Sc. (Mechanical Engineering) from the University of Waterloo and an MBA (Finance) from the Schulich School of Business at York University.

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