

# WISE

WATERLOO INSTITUTE  
FOR SUSTAINABLE ENERGY



## LECTURE SERIES

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BUILDINGS | CARBON CAPTURE AND STORAGE | FUEL CELLS | NUCLEAR | POLICY | PLANNING  
RENEWABLES | SMART GRID | STORAGE | SUSTAINABLE MOBILITY | SUSTAINABILITY ANALYSES

**PRESENTED BY THE WATERLOO INSTITUTE  
FOR SUSTAINABLE ENERGY**

**Friday, May 19, 2017  
10:30 – 11:30 am  
DC 1302**

## **POST-NET METERING FOR A SUSTAINABLE CITY**

**Dr. Matthew Peloso, CEO, Sun  
Electric Pte. Ltd., Singapore**

Blockchain has revolutionized the way we think of transactions, leading to the dramatic rise of FinTech industries applicable to everything from shipping to bill payment. Bitcoin, the infamous launch of currencies encoded in cryptographic codes, still trades and has shown the world that the impact of information technologies on transactions are here to stay. Meanwhile, sustainable energy is shifting our world from a utility model with centralized generation of power to a distributed model for energy where our power networks harvest electricity scattered across the energy grid.

In this presentation, Dr. Peloso will discuss how financial technologies can revolutionize the renewable energy industry. He will also demonstrate a new "post-net-metering" protocol to support the certification of clean power and a live transactional system for authenticating electricity transactions over Singapore's world-class electricity network.

### **Biography**



**Dr. Matthew Peloso**

Dr. Peloso is a University of Waterloo alumnus and the Founder of Sun Electric, a solar energy retail company and developer of technologies that empower cities to produce and consume clean energy.

**"We do this by transforming the way people use energy by connecting rooftop owners with clean energy customers and blending solar electricity into a city's power network."**

Dr. Peloso started a career in photonics after receiving a Bachelor of Physics from the University of Waterloo. His post-graduate research focussed on quantum cryptography and solar energy technologies. He has also studied Intellectual Property Law and Technology Management while consulting for technology businesses and has since completed an MBA.

Dr. Peloso is invited regularly to speak at key industry forums, conferences, talks, and summits where he discusses the future of energy, solar technology, energy policy, and innovation.