



# Siloxit

## Siloxit

*IoT devices and systems for high value, high volume infrastructure*

### Company Overview

Siloxit manufactures and supports secure IoT devices and systems for high-value high-volume infrastructure applications.

### Problem

Technology that promised to bring us prosperity, security and a better life has brought along a lot of problems that need to be fixed. The Internet of Things can be a solution, if implemented correctly. Transformers and transmission line towers are just two among many types of vulnerable infrastructure whose condition should be monitored in order to assure efficient and reliable operation of power grids.

### Market

Energy Grid, Supervisory Control and Data Acquisition (SCADA)

### Solution

TingVet is an energy-scavenging IoT device that forms Wireless Sensor Networks. Swarms of TingVet devices monitor conditions and securely manage operation of high-value high-volume infrastructure. Siloxit takes a holistic view. We think it is essential to integrate measure, communicate, manage, and secure capabilities whose longevity matches the lifetime of the pertinent infrastructure elements. The good news is that many things in the Built World have become sufficiently reliable to provide service lifetimes of many decades, if properly maintained.

Siloxit systems improve reliability and cost-effectiveness of infrastructure by routinely monitoring the operational parameters that matter. Examples include the partial discharge levels within electrical bushings, and level and condition of cooling oil within transformers. Such monitoring can give early warning of deterioration that could otherwise lead to sudden collapse and interruption of service. Siloxit systems quickly pay for themselves by reducing the cost of insurance that utilities buy in order to manage lifecycle cost of the very expensive infrastructure components at the heart of modern distribution systems.

Machine Learning and zero-overhead security are important capabilities built into Siloxit IoT solutions.



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### Go-to-Market Strategy

- We have bootstrapped operations by creating uniquely valuable devices and systems needed by our alpha customers
- We started by selling such things in the form of board-level products.
- Our plan is to grow by systematically applying SOC and network technology to slash cost.
- We work closely with well-chosen partners
- Grow worldwide operations that sell and support best-in-class solutions in the markets we address
- Actively publish and participate in technical conferences

### IP Protection

Seven issued patents (so far).

### Investment

Seed funding for the company is a \$200k investment from friends and family of the founders. The company has been continuously profitable.

The company is seeking an \$8M series-A investment.

### Headquarters

Singapore

### Team

- Dr. Nick Tredennick, Board of Directors
- Prof. Georges Gielen, Board of Directors
- George Manuelian, Board of Directors
- Prof. Ehsan Afshari, Technical Advisor Board
- Dr. Jeffrey Xu, Technical Advisor Board
- Dr. Paul Wu, Technical Advisor Board
- Sandra Schlotter, Technical Advisor Board
- Harry Peterson, CEO
- Dr. Eudes Prado Lopes, Staff
- John Peterson, Staff
- Gabriel Popovici, Staff