

CASE STUDY

# GoodMeasure



## TECHNOLOGY OVERVIEW

GoodMeasure is a powerful IoT-based energy information and control solution

## Highlights

### Requirements

- Cloud-based connectivity solution flexible enough to adapt to a wide assortment of customers' business requirements
- Deliver real-time data to solve complicated energy management issues
- Facilitate secure multi-party control for the next generation of energy management solutions
- Remotely upgrade and manage hundreds of thousands of devices efficiently

### Solution

- Smart Meter gateway with imp003 WiFi module
- Electric Imp IoT Connectivity Platform enables GoodMeasure's web-based energy monitoring and control solution

### Benefits

- New value-added solutions
- Seamless integration into existing metering infrastructure
- Groundbreaking grid-edge intelligence
- Lower capital costs for customers

## Company Overview

GoodMeasure is a technology company based in Wellington, New Zealand. The company's latest innovation harnesses their proven and extensive experience in product development, real-time data acquisition, control and automation solutions, to engineer distributed intelligence systems for the energy industry. The technology delivers on-demand data from meters and sensors directly to software platforms. It solves the complexity of accessing metering data for businesses in the commercial property sector, distribution network operators, utilities and electricity retailers. The system monitors performance, collects energy and environmental data, and dispatches operating instructions to distinct metering and control devices.



## Challenge

GoodMeasure wanted to build a responsive product that would adapt to changing market dynamics. If a client's requirements changed, the system could change accordingly. Their goal was to provide solutions beyond traditional meter reading technologies, that could scale into new markets and provide for class-leading energy industry solutions.

The technology platform needed to both monitor field devices and facilitate secure control capabilities, with an architecture that would allow the benefits of distributed intelligence to be applied to a myriad of industry challenges. These include the collection of real-time consumption data from any number of different metering devices, control of distributed energy resources with legacy interfaces and adaptation to electric vehicle charging.

The system also had to work everywhere and scale sufficiently to manage hundreds of thousands of devices to meet market-specific operational needs.





## Solution

GoodMeasure required an operating platform that offered simple deployment, broad scalability and secure, reliable real-time communications to multiple destinations. Recognizing the potential of IoT to solve this issue, the team turned to Electric Imp to provide a wireless connectivity platform that not only met their requirements but influenced their future roadmap for additional innovative services. Using a proprietary connectivity module powered by Electric Imp that was scalable, secure and flexible to each integration, the team was able to build a system that could expand over time into new applications beyond energy monitoring: to facilitate dynamic management of all distributed energy resources across low voltage networks.



Every implementation is different in some way. We wanted to build a flexible system that would be simple to install and understand and easy to upgrade. We wanted to build a solution that would adapt to changing conditions. If a client's requirements changed, the system should be ready to change accordingly."

— Dean Gowans, CEO



Customers are amazed at our responsiveness. As long-time developers of embedded electronics, we appreciate the value of a solid deployment vehicle. The ease at which we can deploy new services is a comfort to us — it means our developers can focus on our business, and Electric Imp's cloud manages the underlying services. That builds confidence with our clients."

— Regan Ryan, CTO

## Benefits



### FLEXIBILITY

Seamless integrates with existing metering infrastructure and software. Customers benefit from lower capital costs.



### PROFITABILITY

Consistent real-time data collection from all metering devices enables clients to factor in fluctuations in energy costs, apply dynamic pricing, usage adjustments and manage expenses.



### INTELLIGENCE

GoodMeasure metering solutions allow their customers to combine real-time data with sophisticated transformations and simultaneous information streams to multiple destinations. Customers can unlock endless product opportunities.

## Why Electric Imp?

The GoodMeasure team chose the Electric Imp IoT Connectivity Platform because it uniquely allowed them to get to market quickly with a flexible solution that enables them to pursue new markets. Making this possible is the Electric Imp Platform's outstanding combination of:

- **Reliability:** Electric Imp's proven track record of working in harsh, remote, space-constrained environments securely
- **Adaptability:** Electric Imp's solution easily integrated with GoodMeasure's distributed energy intelligence architecture
- **Scalability:** The flexibility of the Electric Imp Platform allows GoodMeasure to scale to hundreds of thousands of devices

