# Conserve it

# SMART IOT SOLUTIONS

*Intelligent Building Automation Technologies*
*Smart Edge IoT Hardware and Software Solutions*
*OEM Software Development for Building Technologies*

# TURN YOUR PLANTROOM INTO A VALUE GENERATING ASSET

In commercial buildings, HVAC is by far the most energy intensive system, accounting for close to half of the total energy consumption.

For this reason every efficiency improvement in HVAC performance can significantly reduce the energy profile of the building, turning HVAC optimisation into a value generating opportunity.

Typically hidden away in plant rooms, HVAC systems can be complex, challenging and are frequently overlooked. Energy saving opportunities are often missed in this complex technical arena.

Created with an in-depth understanding of all thermodynamic variables involved in managing plant room HVAC equipment, PlantPRO enables optimum control of every device and its integration into a single synergistic system.

## FEATURES AND BENEFITS

Plant Performance Monitoring

Plant Diagnostics and Reporting

Plant Optimisation

Plant Measurement and Verification

Plant Control and Automation

Plant Continuous Commissioning and Tuning

## WHY CHILLER PLANT CONTROL AND OPTIMISATION?

- Chiller Brand and Compressor type agnostic so it works with any manufacturers chiller systems

- Can provide up to 40% savings on energy consumption by using self-learning and self-adjusting controls and optimisation algorithms based on ASHRAE study

- Provides on-board real time analytics, diagnostics, reporting, measurement and verification to continually readjust the chiller plant for optimal performance

- Based on Niagara Framework and is Haystack compatible

PlantPRO® is an award-winning plant room optimisation and control software developed by Conserve It. It provides control of the chiller plant system in a way that delivers efficiencies beyond that of the individual components.

PlantPRO uses feedback from its on-board real time analytics, diagnostics, measurement and verification systems to continually readjust the chiller plant for optimal performance. PlantPRO was named Product of the Year at the 2015 AIRAH Awards, and was awarded Energy Savings Solution Product of the Year at the 2017 Control Trends Awards.

PlantPRO is deployed across six continents, 20 countries and 50 cities around the world covering over 2 million square metres of building space.

# CONSERVE IT EDGE IOT CONTROLLERS

Conserve It Edge controllers are a new generation of IoT controllers utilising the Niagra Framework with expandable IO network. These controllers are part of Conserve It's hardware portfolio and are designed to provide maximum performance at minimum cost.



## CI-534 EDGE CONTROLLER

Purpose-built, the Conserve It Edge IoT CI-534 Controller delivers edge connectivity, data access and control for today's small to mid-sized facilities, plant control, machine to machine and IoT applications that require smart edge technology.



## CI-XM3410 CONTROLLER

The CI-XM34IO is part of Conserve It's hardware portfolio and is designed to provide maximum performance at minimum cost. The units are completely extendable and can be configured to add additional IOs to any Conserve It Edge 534 controller, any JACE® 8000 controller and other BACnet controllers



## CI-SE2 SERIAL EXTENSION MODULE

The Conserve It Serial Extender module (CI-SE2) is part of Conserve It's edge hardware portfolio designed to provide an additional two usable RS485 ports to your CI-534 controller . The CI-SE2 allows for a greater number of serial networks, as well as 34 analogue and digital IO points.



## CI-DEG-5000 CONTROLLER

The Conserve It Edge Gateway 5000 Series is designed to aggregate, secure and relay data from diverse sensors and equipment. The Intel® Atom™ processor provides capacity to perform local analytics and control so only meaningful information is sent to the next tier, which could be another gateway, the data centre or the cloud. This minimises consumption of expensive network bandwidth and reduces overall solution latency.



## CI-DEG-3000 CONTROLLER

Conserve It Edge Gateways are intelligent devices designed to aggregate, secure, analyse and relay data from diverse sensors and equipment at the edge of the network. These gateways bridge both legacy systems and modern sensors to the internet, helping you to get business insights from the real-time, pervasive data in your machines and equipment.
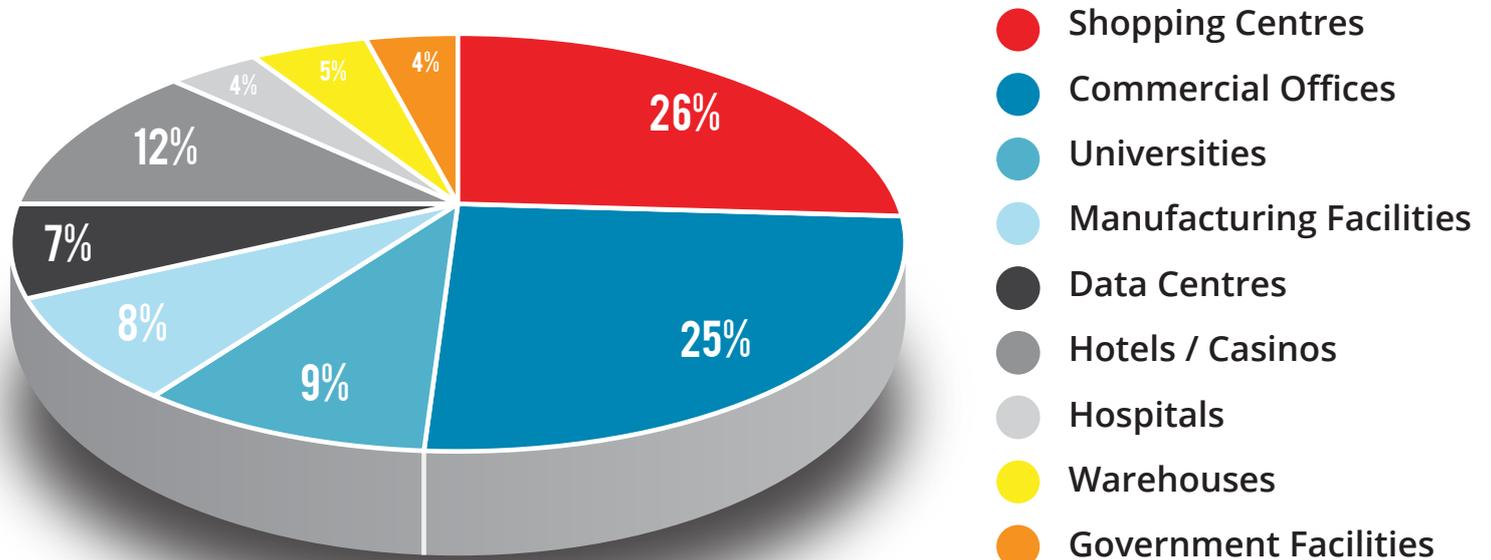


## CI J8000 CONTROLLER

The CI-J8000 is a compact, embedded IoT controller and server platform for connecting multiple and diverse devices and sub-systems. With Internet connectivity and web-serving capability, the CI-J8000 controller provides integrated control, supervision, data logging, alarming, scheduling and network management. It streams data and rich graphical displays to a standard web browser.

# APPLICATIONS

Conserve It provides effective and profitable ways to improve the energy profile of a wide range of commercial and industrial buildings on an international scale. As leading HVAC solution providers, Conserve It has designed and commissioned PlantPRO: a highly specialised control and optimisation solution dedicated to plant rooms and is deployed across 20 countries. To find out more about these applications, visit conserveit.com.au.



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- 🔵 Universities — 9%
- 🔵 Manufacturing Facilities — 8%
- ⚫ Data Centres — 7%
- ⚪ Hotels / Casinos — 12%
- ⚪ Hospitals — 4%
- 🟡 Warehouses — 5%
- 🟠 Government Facilities — 4%

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MaxLine  QuickLink Solutions

## ABOUT US

Conserve It is an international leader in building automation and HVAC solutions, having designed the award-winning plant room optimisation solution PlantPRO.

Based in Melbourne, Australia, the Conserve It team has a wealth of knowledge and vast experience in control and optimisation solutions that ensure central plant equipment runs efficiently, minimises energy consumption and maximises cost saving opportunities.

Conserve It comprises a team of certified and fully trained engineers and technicians and have an ever growing International presence, with solutions deployed around the world in over 20 countries.

Conserve it

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