

GROWTH

EcoStruxure at iseek Data Centre Ensures Connectivity

iseek

Townsville, Queensland, Australia

Find out how EcoStruxure™ has been implemented to ensure iseek has greater visibility, reliability and security over data centre operations.

se.com/au/iseek

Life Is On

Schneider
Electric



iseek is an Australian-owned cloud & service provider, specialising in enterprise cloud, robust data centres and managed connectivity. With data centres in Brisbane and Sydney, iseek houses business-critical infrastructure, ensuring security, connectivity and efficiency for a multitude of government agencies, local business and enterprises.

Positioned as the gateway to Asia, a new data centre in Townsville would be pivotal to the long-term prospects of Far North Queensland. Townsville City Council had intentions to leverage the data centre to promote job opportunities and boost future business investments in the region, leveraging the fact that Townsville already services several federal, state and government bodies.

“Continued growth and expansion was necessary to meet the growing demand for data centre services,” said iseek founder and chief executive Jason Gomersall. With the rise of cloud computing, immersive technologies and IoT, the increasing demand for data centre capacity presented a great opportunity for iseek. This was further substantiated as iseek’s two major tenants, James Cook University and Townsville City Council were looking to increase cloud storage.

The Challenge

The number one challenge to building a data centre in Townsville was that of natural disasters, specifically cyclones. Even under severe weather conditions, iseek’s critical IT infrastructure needs to continue to operate 24/7. As a colocation facility, constant connectivity of the network and access to data is essential as IT downtime can result in severe financial loss for iseek tenants.

As a site containing critical infrastructure, security of the site is indispensable. 24/7 surveillance and monitoring of racks and equipment as well as prevention and mitigation of any physical or electronic risks are necessary to protect client data. This includes any access and data breaches, as well as early detection of equipment failures to ensure the security and reliability of operations.

The collection and transformation of data into actionable insights is essential for iseek to improve the operational efficiency of the site. With power being a high operational expense, it is important for iseek to have visibility over the entire Data Centre so operational and power inefficiencies can be addressed.

Goal

A new cyclone proof data centre in Townsville with 24/7 visibility over operations.

Story

iseek is an Australian owned cloud & service provider, with data centres in Brisbane and Sydney. Increasing demand for cloud storage and growth in the region presented iseek with an opportunity to build a new data centre in Townsville.

Solution

Ongoing maintenance from our field service team, DCIM, Switchboards, Galaxy UPS with Lithium-ion, BMS and security, Uniflair Cooling units.

Results

Schneider Electric’s EcoStruxure for Data Centres including Galaxy UPS with Li-ion technology has enabled iseek to establish a reliable 1MW cyclone proof Tier III data centre.

The Solution

At the basic level, iseek needed to have reliable and secure IT equipment to sustain the resiliency of the data centre. As such, APC's Galaxy UPS with Lithium-ion (Li-ion) was selected to provide long-lasting and reliable energy storage protection. Li-ion batteries have 2x battery life as compared to traditional VRLA batteries, lowering the total cost of ownership for iseek, and reducing any maintenance and installation costs associated.

As a colocation data centre, iseek aims to maximise data storage capacities. Galaxy UPS with Li-ion technology has a smaller footprint than traditional VRLA batteries and is lighter in weight. This translates to less cooling and energy requirements, but also enables iseek to easily adapt to growing data storage demands in future without any costly building modifications.

An added benefit of the Galaxy UPS with Li-ion is the sophisticated battery monitoring system. Through this solution, battery runtime and health of the UPS are all transparent, so battery failures are predictable, and any incidents can be prevented with the right replacement. This visibility helps iseek manage the UPS systems and ensure data centre resiliency.

Visibility over the new iseek data centre is a prerequisite to ensure efficient runtime. By having data from connected devices all aggregated and summarised, iseek can intelligently manage data centre operations. In particular, EcoStruxure and intelligent software empowers iseek to detect and prevent any equipment failures and optimise power usage to reduce costs, using digital tools.

With proven capabilities in deploying security solutions in critical environments, coupled with the best-in-class security products, Schneider Electric was able to ensure iseek facility managers had full control. iseek focused on providing its clients peace of mind, utilising the latest technology of biometric readers and pano-immersive CCTV cameras.

To provide an aggregation point of service and a seamless conversion of IoT, Schneider



Electric installed its latest integrated systems platform, EcoStruxure Buildings Operations (BMS). With Townsville located 14 hours drive away from Brisbane, the BMS allows iseek to conveniently manage day-to-day operation from the Brisbane HQ. With all the data aggregated into a simple user-friendly interface, facility managers can control and mitigate any potential risks anywhere and on any device at any time.

For cooling, the latest generation of CRAC units, Uniflair DX was selected. Two distinguishing features differentiated these cooling units from others on the market: the brushless VSD scroll compressors and the double power supply with ATS. Through the brushless VSD scroll compressors, the cooling unit can adapt its speed and power depending on the load, lowering OPEX for iseek. The double power supply with ATS and the high cooling capacity (137KW) of the Uniflair DX unit ensures cooling is operating 24/7, therefore increasing the reliability of the facility.

The iseek data centre is also built with state-of-the-art power train, LV switchboards, APC racks and PDUs.

To simplify the maintenance and operations of the iseek data centre, Schneider Electric's Field Service team is maintaining and providing proactive guidance. The team is dedicated to keeping critical systems in top condition and where possible, control costs and optimise data centre performance. In the case of any problems or accidents,

“To ensure we deliver essential services in the most severe weather events, our partnership with Schneider Electric was absolutely essential...”

*— Jason Gomersall
ISEEK*

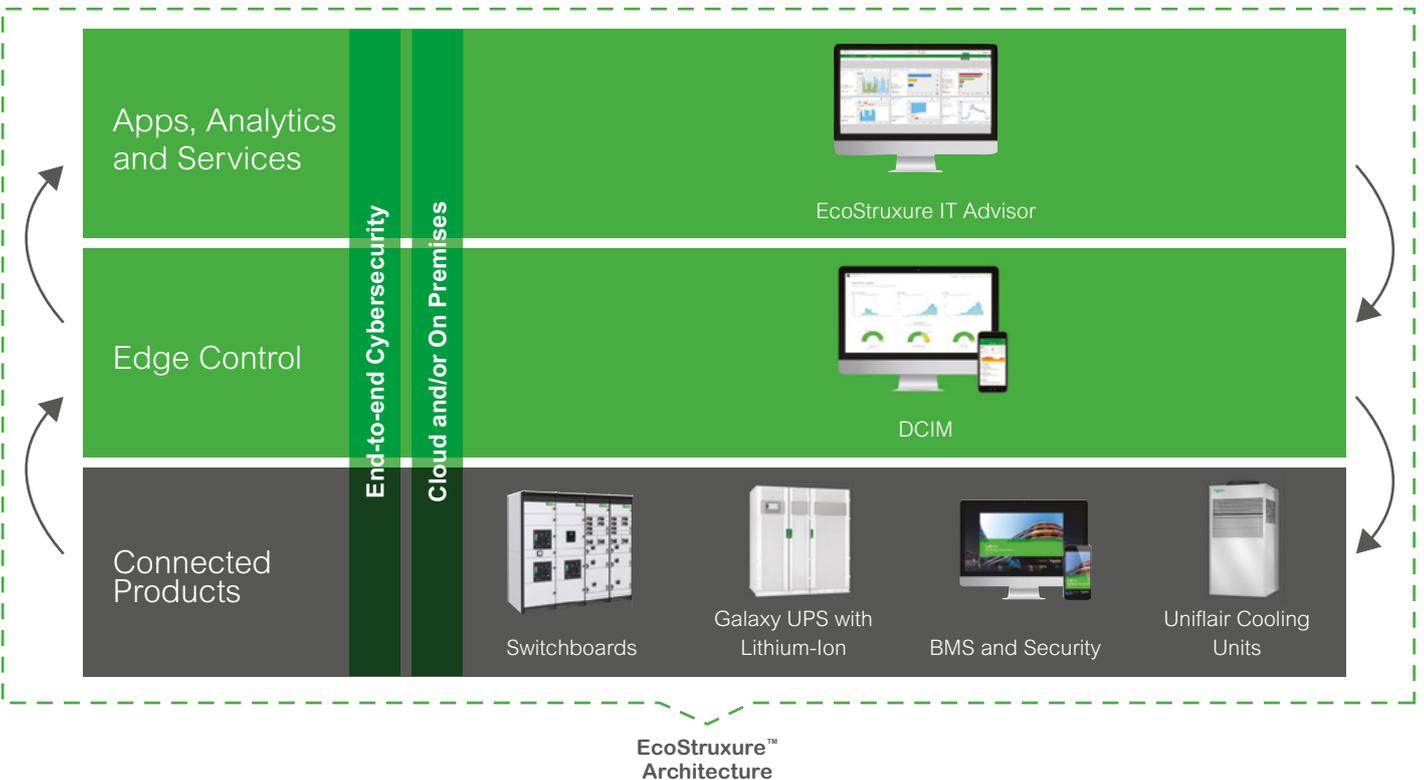
experienced engineers from Schneider Electric will provide 24/7 support to iseek, making management and maintenance easy.

The Outcome

Schneider Electric's Ecostruxure for Data Centres including Galaxy UPS with Li-ion technology has enabled iseek to establish a reliable 1MW cyclone proof data centre. iseek now has 24/7 visibility over the entire IT infrastructure to ensure efficient operations of the facility, and early detection and isolation of any faults and failures. As a tier III data centre, Galaxy UPS with Li-ion and Uniflair DX CRAC units have been implemented with redundancy to ensure continuous operation of IT infrastructure under all conditions.

"To ensure we deliver essential services in the most severe weather events, our partnership with Schneider Electric was absolutely essential to ensure power and cooling under all conditions. We selected Schneider Electric's EcoStruxure to help us deliver that outcome," said Jason Gomersall.

iseek together with Schneider Electric has delivered a new resilient data centre in Townsville. This new data centre will support local economic growth by providing the foundation for a vibrant digital economy and accelerate business investments and employment in the region.



EcoStruxure™

Innovation At Every Level

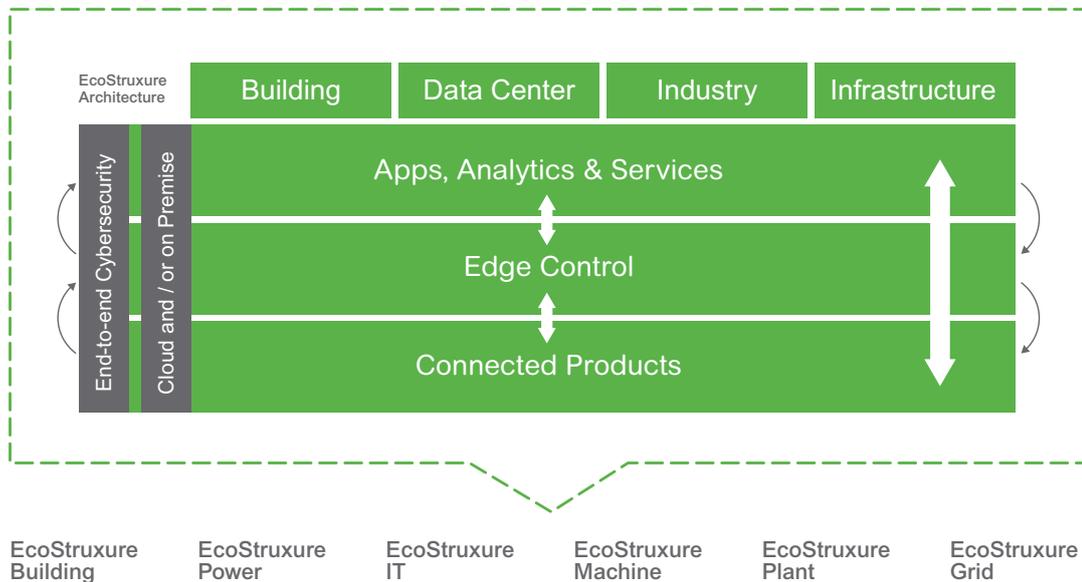
IoT-enabled solutions that drive operational and energy efficiency

EcoStruxure is Schneider Electric’s open, interoperable, IoT-enabled system architecture and platform.

EcoStruxure delivers enhanced value around safety, reliability, efficiency, sustainability, and connectivity for our customers.

EcoStruxure leverages advancements in IoT, mobility, sensing, cloud, analytics, and cybersecurity to deliver Innovation at Every Level including Connected Products, Edge Control, and Apps, Analytics & Services. EcoStruxure™ has been deployed in 480,000+ sites, with the support of 20,000+ system integrators and developers, connecting over 1.6 million assets under management through 40+ digital services.

One EcoStruxure architecture, serving 4 End Markets with 6 Domains of Expertise



Connected Products

The Internet of Things starts with the best things. Our IoT-enabled best-in-class connected products include breakers, drives, UPSs, relays, sensors, and more. Devices with embedded intelligence drive better decision-making throughout operations.

Edge Control

Mission-critical scenarios can be unpredictable, so control of devices at the edge of the IoT network is a must. This essential capability provides real-time solutions that enable local control at the edge, protecting safety and uptime.

Apps, Analytics & Services

Interoperability is imperative to supporting the diverse hardware and systems in building, data center, industry, and grid environments. EcoStruxure enables a breadth of agnostic Applications, Analytics, & Services for seamless enterprise integration.

Find out more about EcoStruxure

schneider-electric.com/ecostruxure

Learn More



EcoStruxure for Cloud & Service Providers



Discover Innovation for Data Centres



Discover our Critical Power and Cooling Products



Solutions for Colocation Providers



Discover EcoStruxure™ Customer Success Stories



Digital Realty

Schneider Electric

78 Waterloo Road
Macquarie Park Sydney
NSW 2113 Australia
Phone: 1300 369 233

se.com/au

September 2019

©2014-2019 Schneider Electric. All Rights Reserved. Life Is On Schneider Electric is a trademark and the property of Schneider Electric SE, its subsidiaries and affiliated companies. All other trademarks are the property of their respective owners.

998-20614971_AU-GB

Life Is On

