

Flexenclosure partners with NEXTDC to deliver innovative micro data centre in Western Australia



N E X T D C

Background

NEXTDC is Australia's leading independent data centre as a service operator, with a nationwide network of Uptime Institute Tier III and Tier IV-certified facilities. NEXTDC provides enterprise-class colocation services to local and international organisations. With a focus on sustainability and renewable energy, NEXTDC enables business transformation through innovative data centre outsourcing solutions, connectivity services and infrastructure management software.

In response to fast-growing demand for connectivity from Western Australian businesses, NEXTDC had initiated a project to build the region's most powerful, connected and resilient data centre – their new 20MW hyperscale "P2" facility in East Perth. However, with P2



not scheduled to be completed until 2020, a stop-gap solution was needed in order to provide customers with immediate access to new connectivity services being deployed at P2's intended location.

The Challenge

NEXTDC's answer was to build a P2 microsite – a micro data centre providing the critical communications infrastructure required by partners to run their interconnection and telecommunications services from immediately. And it was needed extremely fast.

However, with the main P2 facility's construction already underway, it was imperative that the microsite deployment should bring absolutely no risks or distractions for the mission-critical P2 project's build team. Maximum preparation and configuring of the P2 microsite would therefore need to be done offsite.

NEXTDC's direction for the microsite was that it would act as a self-contained fully functioning interconnect location, pre-fitted with racks for NEXTDC's telco and service provider partners to move right in to without any delay.

Like anything that NEXTDC put their name to, it had to conform to their existing quality standards. Despite being a micro site, it had to meet the highest industry standards for reliability and energy efficiency, such that it could be seamlessly integrated in to the new hyperscale P2 facility when the larger project was completed.

"Deploying rapid access connectivity hubs is an exciting new approach to planning and building our hyperscale data centres. Flexenclosure shares our passion for innovation and their eCentre was the ideal solution for our P2 microsite."

Simon Cooper, Chief Operating Officer, NEXTDC



The Solution

Flexenclosure's prefabricated eCentre data centre was selected as the ideal solution. Designed in accordance with NEXTDC's world-class infrastructure standards and constructed to the same quality levels of an Uptime Institute Tier III certified facility, the eCentre micro data centre was constructed and fully tested at Flexenclosure's manufacturing plant in Sweden, before being shipped to Western Australia for installation and final commissioning.

Acting as a standalone facility for interconnection and telecommunications, the microsite will provide Western Australia-based businesses with immediate connectivity to critical cloud services, metro, national and international links, in advance of the completion of NEXTDC's hyperscale P2 facility in 2020. At that point the microsite will be seamlessly integrated into the main build, forming an integral part of P2's interconnect infrastructure.

The Flexenclosure solution for the P2 microsite was

constructed as a full turnkey project. New national and international networks are already being built with Superloop's Singapore to Perth, and Perth to Sydney INDIGO subsea cable network services available directly from the P2 site. In addition, NEXTDC's Data Centre Interconnect (DCI) and AXON connectivity services give customers the freedom and flexibility to tap into the full power of NEXTDC's Perth ecosystem located across P1 and P2 (via DCI), or allow them to connect to the entire NEXTDC ecosystem nationally (via AXON), including the huge array of Partners and leading cloud on-ramps.

The result is a world class micro data centre that has provided NEXTDC with the critical infrastructure required to deliver next generation services to its customers today and a seamless transition to the new P2 data centre in 2020. And with P2 set to become central Perth's most important IT, cloud and connectivity investment, the P2 microsite will give it an incredible head start.



The Flexenclosure Advantage

From day one, a close and collaborative working relationship was established between NEXTDC and Flexenclosure, ensuring that when the time came to deploy the new data centre, it would conform exactly to NEXTDC's requirements.

Flexenclosure took ownership of all elements of the project, overseeing every aspect of the undertaking including custom design, compliance with Australian standards, factory manufacturing, system testing, transport, logistics, site construction and final commissioning.

By working with Flexenclosure, NEXTDC was also able to capitalise on a number of significant eCentre differentiators:

- Maximum preparation, configuration and testing of the eCentre modules in Flexenclosure's factory in Sweden ensured the extreme level of quality and reliability required of this mission critical facility before its final

delivery on site, while at the same time significantly reducing overall project risk.

- The same team leaders that built the eCentre in Sweden then travelled to Australia for its installation and final commissioning, thus ensuring the seamless project management and precise attention to detail found in all eCentre facilities.
- eCentre's modular construction allows for the expansion of any existing eCentre site without interrupting on-going data centre operations.
- And with extensive experience deploying prefabricated data centre and technical facilities in the most challenging environments in over 50 countries world wide, Flexenclosure is always able to bring creative ideas, fully tested solutions and total peace of mind.