

Providing the Support Behind the Power



Background

Synergy is an electricity provider owned by the Western Australian government and founded in 2006. It provides electricity to energy customers across WA and is based in Perth. Synergy have seven power stations across the South West Interconnected System (SWIS) which spans the area between Kalbarri in the north, Kalgoorlie in the east and Albany in the South.

Objective

The primary objective was to design, build and coordinate the deployment and on-site installation of a 40ft Modular Data Centre to house Synergy's Critical Infrastructure.

Solution Specifications:

40ft Modular DC

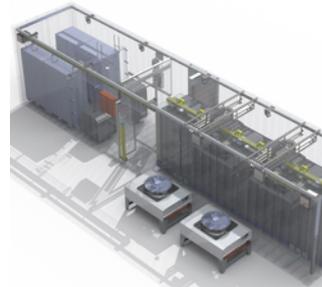
- ISO12944 Paint System
- UPS in 2N to Support Critical IT Load with 30min Battery Backup
- UPS to Support Critical Cooling with 60min Battery Backup
- N+1 Cooling
- AutoFloor™
- VESDA and Stat-X Fire Suppression System

Overview

Synergy pride themselves as being the smarter choice for Electricity, Solar and Gas. When it came time for the demolition of their old Kwinana power station and the beginning of the sites rehabilitation, they looked to partner with DXN Limited (DXN), as we were a manufacturer aligned to their vision.

In the aging Kwinana station, critical infrastructure was housed inside the power station. This controlled day to day operations such as the boilers, drives, turbines, as well as their communications. To complete the demolition meant that this infrastructure had to be relocated.

Traditional brick and mortar solutions were cumbersome and expensive. DXN's Modular ISO DC was the perfect solution; being rugged, robust and able to be deployed quickly. It also provided high availability that would run critical infrastructure without any downtime.



Bespoke engineering to deliver a fit for purpose Data Centre

The needs of this new Data Centre were multi faceted and required completely bespoke engineering. The 40ft DC Synergy commissioned split the space in two ways. One half was used to house racks (making use of our patented AutoFloor™ Technology, which allows for precision rack movement for easy access and installation) and the other half was used to house the UPS' for the IT load in a 2N system, with a 30 minute battery backup. The in-row coolers also made use of a UPS with one hour battery backup.

DXN supplied the generator and will also be responsible for the site specific work being done in terms of readying for installation. We will also be handling the installation of the cabling conduits that will provide redundant communication links to the container.

The full deployment and installation from start to finish will take 16 weeks.